

# Photoelectrochemical cells

Nature

414, 338-344

DOI: [10.1038/35104607](https://doi.org/10.1038/35104607)

Citation Report

#	ARTICLE	IF	CITATIONS
12	Alternative energy technologies. <i>Nature</i> , 2001, 414, 332-337.	13.7	4,120
13	Engineering the nanocrystalline structure of TiO <sub>2</sub> films by aerodynamically filtered cluster deposition. <i>Applied Physics Letters</i> , 2002, 81, 3052-3054.	1.5	78
14	Renewable Energy: Progress and Prospects. <i>Physics Today</i> , 2002, 55, 62-67.	0.3	20
15	Efficient photocarrier injection in a transition metal oxide heterostructure. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L757-L763.	0.7	43
16	Photoelectrochemical Behavior in Low-Conductivity Media of Nanostructured TiO <sub>2</sub> Films Deposited on Interdigitated Microelectrode Arrays. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7218-7224.	1.2	29
17	Spectroscopic and Spectroelectrochemical Properties of a Poly(alkylthiophene)-Oligoaniline Hybrid Polymer. <i>Macromolecules</i> , 2002, 35, 6112-6120.	2.2	47
18	Ligand-Localized Electron Trapping at Sensitized Semiconductor Interfaces. <i>Journal of the American Chemical Society</i> , 2002, 124, 9690-9691.	6.6	38
19	Epitaxial Growth and Photochemical Annealing of Graded CdS/ZnS Shells on Colloidal CdSe Nanorods. <i>Journal of the American Chemical Society</i> , 2002, 124, 7136-7145.	6.6	539
20	High efficiency dye-sensitized nanocrystalline solar cells based on ionic liquid polymer gel electrolyte. <i>Chemical Communications</i> , 2002, , 2972-2973.	2.2	510
21	Self-consistent hybrid approach for simulating electron transfer reactions in condensed phases. <i>Israel Journal of Chemistry</i> , 2002, 42, 167-182.	1.0	23
22	High Efficiency Electrochemical CO <sub>2</sub> -to-Methane Conversion Method Using Methanol with Lithium Supporting Electrolytes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 5165-5170.	1.8	51
23	Discrimination of the active crystalline phases in anatase-rutile mixed titanium(IV) oxide photocatalysts through action spectrum analyses. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5910-5914.	1.3	129
24	Semiconductor-electrolyte junction at the n-GaAs (n-InP)/Na <sub>2</sub> /SiO <sub>2</sub> /solution interface. , 0, , .		0
25	Synthesis of nano-scale TiO <sub>2</sub> particles by a nonhydrolytic approach Electronic supplementary information (ESI) available: TG analysis of the precursors; particle size distribution analysis of TiO <sub>2</sub> nanocrystals dispersed in toluene; XRD analysis of TiO <sub>2</sub> nanocrystals with and without glass substrate background. See <a href="http://www.rsc.org/suppdata/jm/b2/b202767d/">http://www.rsc.org/suppdata/jm/b2/b202767d/</a> . <i>Journal of Materials Chemistry</i> , 2002, 12, 1625-1627.	6.7	52
26	Examination of band bending at buckminsterfullerene (C <sub>60</sub> )/metal interfaces by the Kelvin probe method. <i>Journal of Applied Physics</i> , 2002, 92, 3784-3793.	1.1	137
27	Photovoltaics Literature Survey (No. 13). <i>Progress in Photovoltaics: Research and Applications</i> , 2002, 10, 169-170.	4.4	0
28	Experimental evidence for sub-3-fs charge transfer from an aromatic adsorbate to a semiconductor. <i>Nature</i> , 2002, 418, 620-623.	13.7	346
29	Carrier Localization and Cooling in Dye-Sensitized Nanocrystalline Titanium Dioxide. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11716-11719.	1.2	219

#	ARTICLE	IF	CITATIONS
30	Dye-sensitized Solar Cell Fabricated by Electrostatic Layer-by-Layer Assembly of Amphoteric TiO <sub>2</sub> Nanoparticles. <i>Langmuir</i> , 2003, 19, 2169-2174.	1.6	111
31	An Explanation of Anomalous Diffusion Patterns Observed in Electroactive Materials by Impedance Methods. <i>ChemPhysChem</i> , 2003, 4, 287-292.	1.0	54
32	Molecular-Scale Interface Engineering of TiO <sub>2</sub> Nanocrystals: Improve the Efficiency and Stability of Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2003, 15, 2101-2104.	11.1	266
33	Surface photovoltage spectroscopy study of reduced and oxidized nanocrystalline TiO <sub>2</sub> films. <i>Surface Science</i> , 2003, 532-535, 456-460.	0.8	56
34	Dye-sensitized photoelectrochemical and solid-state solar cells: charge separation, transport and recombination mechanisms. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 158, 125-130.	2.0	39
35	Influence of pyrimidine additives in electrolytic solution on dye-sensitized solar cell performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 160, 171-179.	2.0	44
36	Fruit extracts and ruthenium polypyridinic dyes for sensitization of TiO <sub>2</sub> in photoelectrochemical solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 160, 87-91.	2.0	134
37	Dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2003, 4, 145-153.	5.6	4,007
38	A technique to compare polythiophene solid-state dye sensitized TiO <sub>2</sub> solar cells to liquid junction devices. <i>Solar Energy Materials and Solar Cells</i> , 2003, 76, 85-105.	3.0	147
39	Novel Fast Lithium Ion Conduction in Garnet-type Li <sub>5</sub> La <sub>3</sub> M <sub>2</sub> O <sub>12</sub> (M = Nb, Ta). <i>Journal of the American Ceramic Society</i> , 2003, 86, 437-440.	1.9	662
40	A photovoltaic device structure based on internal electron emission. <i>Nature</i> , 2003, 421, 616-618.	13.7	386
41	Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles. <i>Nature</i> , 2003, 423, 628-632.	13.7	232
42	Universal alignment of hydrogen levels in semiconductors, insulators and solutions. <i>Nature</i> , 2003, 423, 626-628.	13.7	1,111
43	Solar cells to dye for. <i>Nature</i> , 2003, 421, 586-587.	13.7	189
44	A stable quasi-solid-state dye-sensitized solar cell with an amphiphilic ruthenium sensitizer and polymer gel electrolyte. <i>Nature Materials</i> , 2003, 2, 402-407.	13.3	1,466
45	A taste of the future. <i>Nature Materials</i> , 2003, 2, 363-365.	13.3	661
46	A solid compromise. <i>Nature Materials</i> , 2003, 2, 362-363.	13.3	73
47	Molecules as bipolar conductors. <i>Nature Materials</i> , 2003, 2, 360-361.	13.3	60

#	ARTICLE	IF	CITATIONS
48	Aerosol Synthesis of Anatase Titanium Dioxide Nanoparticles for Hybrid Solar Cells. <i>Chemistry of Materials</i> , 2003, 15, 4617-4624.	3.2	52
49	Conductivity in CdSe quantum dots and TiO <sub>2</sub> nanoparticles: what can THz spectroscopy tell us? , O, , .		0
50	Aromatic Amines as Co-sensitizers in Dye Sensitized Titania Solar Cells. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003, 40, 1295-1306.	1.2	5
51	Charge Transfer on the Nanoscale: Current Status. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6668-6697.	1.2	946
52	Photoluminescent and photovoltaic properties observed in a zinc borate Zn <sub>2</sub> (OH)BO <sub>3</sub> . <i>Journal of Materials Chemistry</i> , 2003, 13, 2227-2233.	6.7	49
53	Synthesis of Periodic Hexagonal Surfactant Templated Platinum Tin Tellurides: Narrow Band Gap Inorganic/Organic Composites. <i>Journal of the American Chemical Society</i> , 2003, 125, 4551-4559.	6.6	48
54	Gelation of Ionic Liquid-Based Electrolytes with Silica Nanoparticles for Quasi-Solid-State Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2003, 125, 1166-1167.	6.6	947
55	Particle Size and Crystallinity Dependent Electron Injection in Fluorescein 27-Sensitized TiO <sub>2</sub> Films. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1370-1375.	1.2	101
56	Ionic Liquid Doped Polymer Light-Emitting Electrochemical Cells. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12981-12988.	1.2	131
57	Reductive Electron Transfer Quenching of MLCT Excited States Bound To Nanostructured Metal Oxide Thin Films. <i>Journal of Physical Chemistry B</i> , 2003, 107, 245-254.	1.2	47
58	Thin Film Actinometers for Transient Absorption Spectroscopy: Applications to Dye-Sensitized Solar Cells. <i>Langmuir</i> , 2003, 19, 8389-8394.	1.6	58
59	Effect of Surface Pressure on the Insulator to Metal Transition of a Langmuir Polyaniline Monolayer. <i>Journal of the American Chemical Society</i> , 2003, 125, 9312-9313.	6.6	57
60	Photoinduced Electron Injection from Ru(dcbpy) <sub>2</sub> (NCS) <sub>2</sub> to SnO <sub>2</sub> and TiO <sub>2</sub> Nanocrystalline Films. <i>Journal of the American Chemical Society</i> , 2003, 125, 1118-1119.	6.6	118
61	Products of the Electrochemical Oxidation of cis-L <sub>2</sub> Ru(II)(NCS) <sub>2</sub> in Dimethylformamide and Acetonitrile Determined by LC-UV/Vis-MS. <i>Inorganic Chemistry</i> , 2003, 42, 5545-5550.	1.9	15
62	Molten and Solid Trialkylsulfonium Iodides and Their Polyiodides as Electrolytes in Dye-Sensitized Nanocrystalline Solar Cells. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13665-13670.	1.2	84
63	Control of Nucleation in Solution Growth of Anatase TiO <sub>2</sub> on Glass Substrate. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12244-12255.	1.2	57
64	Ultrafast Stepwise Electron Injection from Photoexcited Ru-Complex into Nanocrystalline ZnO Film via Intermediates at the Surface. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4162-4166.	1.2	99
65	Shape control and applications of nanocrystals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 241-257.	1.6	184

#	ARTICLE	IF	CITATIONS
66	A New Ionic Liquid Electrolyte Enhances the Conversion Efficiency of Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2003, 107, 13280-13285.	1.2	607
67	Electronic and transport properties of reduced and oxidized nanocrystalline TiO <sub>2</sub> films. Applied Physics Letters, 2003, 82, 574-576.	1.5	64
68	Photochemical sensitisation process at photosynthetic pigments/Q-sized colloidal semiconductor hetero-junctions. Synthetic Metals, 2003, 139, 593-596.	2.1	14
69	Chemical capacitance of nanostructured semiconductors: its origin and significance for nanocomposite solar cells. Physical Chemistry Chemical Physics, 2003, 5, 5360.	1.3	693
70	Quaternary Self-Organization of Porphyrin and Fullerene Units by Clusterization with Gold Nanoparticles on SnO <sub>2</sub> Electrodes for Organic Solar Cells. Journal of the American Chemical Society, 2003, 125, 14962-14963.	6.6	173
71	Control of Charge Recombination Dynamics in Dye Sensitized Solar Cells by the Use of Conformally Deposited Metal Oxide Blocking Layers. Journal of the American Chemical Society, 2003, 125, 475-482.	6.6	1,020
72	Highly Phosphorescence Iridium Complexes and Their Application in Organic Light-Emitting Devices. Journal of the American Chemical Society, 2003, 125, 8790-8797.	6.6	490
73	Femtosecond Dynamics of Interfacial and Intermolecular Electron Transfer at Eosin-Sensitized Metal Oxide Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 3215-3224.	1.2	98
74	Insights into Dye-Sensitization of Planar TiO <sub>2</sub> : Evidence for Involvement of a Protonated Surface State. Journal of Physical Chemistry B, 2003, 107, 10971-10973.	1.2	65
75	First Principles Studies of Advanced Photovoltaic Materials. , 2003, , .		0
76	Enhance the Performance of Dye-Sensitized Solar Cells by Co-grafting Amphiphilic Sensitizer and Hexadecylmalonic Acid on TiO <sub>2</sub> Nanocrystals. Journal of Physical Chemistry B, 2003, 107, 14336-14341.	1.2	672
77	Flexible dye sensitised nanocrystalline semiconductor solar cells. Chemical Communications, 2003, , 3008.	2.2	137
78	Multilayer formulation of the multiconfiguration time-dependent Hartree theory. Journal of Chemical Physics, 2003, 119, 1289-1299.	1.2	729
79	Photosensitization of Nanocrystalline SnO <sub>2</sub> Films with a tris(2,2'-bipyridine) Ruthenium(II) Fullerene Dyad. Fullerenes Nanotubes and Carbon Nanostructures, 2003, 11, 121-133.	1.0	3
80	Coordination and hydrogen bonded networks featuring 4,4'-dicarboxy-2,2'-bipyridine (H <sub>2</sub> dcbp): structural characterisation of H <sub>2</sub> dcbp, [Co(dcbp)(H <sub>2</sub> O) <sub>4</sub> ]·4H <sub>2</sub> O, and {[Cu(dcbp)(H <sub>2</sub> O) <sub>2</sub> ] <sub>n</sub> ·2H <sub>2</sub> O}. Dalton Transactions, 2003, , 1223-1228.	1.6	58
81	Kinetics of Absorbed Chromophore Exchange on Metal Oxide Electrodes. Langmuir, 2003, 19, 6081-6087.	1.6	6
82	Quasi-solid-state nanocrystalline TiO <sub>2</sub> solar cells using gel network polymer electrolytes based on polysiloxanes. Science Bulletin, 2003, 48, 646-648.	4.3	6
83	Alignment of valence photoemission, x-ray absorption, and substrate density of states for an adsorbate on a semiconductor surface. Physical Review B, 2003, 67, .	1.1	43

#	ARTICLE	IF	CITATIONS
84	Efficient dye-sensitized photoelectrochemical cells made from nanocrystalline tin(IV) oxide–zinc oxide composite films. <i>Semiconductor Science and Technology</i> , 2003, 18, 312-318.	1.0	36
85	Measurement of the x-ray mass attenuation coefficient and the imaginary part of the form factor of silicon using synchrotron radiation. <i>Physical Review A</i> , 2003, 67, .	1.0	44
86	In-situ nanostructured film formation during physical vapor deposition. <i>Applied Physics Letters</i> , 2003, 83, 4827-4829.	1.5	24
87	<title>Transient photoconductivity in CdSe nanoparticles and nanocrystalline TiO<math>_2</math> as measured by time-resolved terahertz spectroscopy</title>. , 2003, , .		2
88	Photoelectrochemical solar cell using extract of <i>Eugenia jambolana</i> Lam as a natural sensitizer. <i>Anais Da Academia Brasileira De Ciencias</i> , 2003, 75, 163-165.	0.3	26
89	The Effect of MgO on the Enhancement of the Efficiency in Solid-State Dye Sensitized Photocells Fabricated with SnO <sub>2</sub> and CuI. <i>Bulletin of the Chemical Society of Japan</i> , 2003, 76, 659-662.	2.0	12
90	UV Light-assisted Chemical Vapor Deposition of TiO <sub>2</sub> for Efficiency Development at Dye-sensitized Mesoporous Layers on Plastic Film Electrodes. <i>Chemistry Letters</i> , 2003, 32, 1076-1077.	0.7	62
91	Water-based Dye-sensitized Solar Cells: Interfacial Activation of TiO <sub>2</sub> Mesopores in Contact with Aqueous Electrolyte for Efficiency Development. <i>Chemistry Letters</i> , 2003, 32, 1154-1155.	0.7	37
93	Fabrication and Efficiency Enhancement of Water-based Dye-Sensitized Solar Cells by Interfacial Activation of TiO <sub>2</sub> Mesopores. <i>Electrochemistry</i> , 2004, 72, 310-316.	0.6	24
94	The influence of the electrolyte on the electron diffusion in mesoporous nanocrystalline TiO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 2625-2629.	0.7	1
95	Cubic TiO <sub>2</sub> as a potential light absorber in solar-energy conversion. <i>Physical Review B</i> , 2004, 70, .	1.1	66
96	Molecular ordering in isonicotinic acid on rutile TiO <sub>2</sub> (110) investigated with valence band photoemission. <i>Journal of Chemical Physics</i> , 2004, 121, 10203-10208.	1.2	11
97	Hybrid nanocrystalline TiO <sub>2</sub> solar cells with a fluorene–thiophene copolymer as a sensitizer and hole conductor. <i>Journal of Applied Physics</i> , 2004, 95, 1473-1480.	1.1	185
98	Evidence of a rutile-phase characteristic peak in low-energy loss spectra. <i>Physical Review B</i> , 2004, 69, .	1.1	77
99	Laser pulse control of ultrafast heterogeneous electron transfer: A computational study. <i>Journal of Chemical Physics</i> , 2004, 121, 8039.	1.2	35
100	Electric field-assisted bipolar charge spouting in organic thin-film diodes. <i>Applied Physics Letters</i> , 2004, 84, 440-442.	1.5	110
101	Photoelectrochemical Properties of Highly-ordered Titania Nanotube-arrays. <i>Materials Research Society Symposia Proceedings</i> , 2004, 837, 39.	0.1	2
102	The Sensitization of Nanoporous TiO <sub>2</sub> Electrodes by Porphyrin Derivatives with Different Substituents. <i>Materials Research Society Symposia Proceedings</i> , 2004, 822, S3.13.1.	0.1	0

#	ARTICLE	IF	CITATIONS
103	Hybrid thin films of ZnO with porphyrins and phthalocyanines prepared by one-step electrodeposition. <i>Journal of Porphyrins and Phthalocyanines</i> , 2004, 08, 1366-1375.	0.4	15
104	Photophysical Properties of Three-Dimensional Transition Metal Tris-Oxalate Network Structures. <i>Topics in Current Chemistry</i> , 0, , 65-96.	4.0	8
105	Direct Formation and Photocatalytic Performance of Anatase (TiO <sub>2</sub> )/Silica (SiO <sub>2</sub> ) Composite Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1567-1570.	1.9	31
106	Synthesis of branched 'nanotrees' by controlled seeding of multiple branching events. <i>Nature Materials</i> , 2004, 3, 380-384.	13.3	592
107	Atomic-scale imaging of nanoengineered oxygen vacancy profiles in SrTiO <sub>3</sub> . <i>Nature</i> , 2004, 430, 657-661.	13.7	585
108	Controlling the dynamics of spontaneous emission from quantum dots by photonic crystals. <i>Nature</i> , 2004, 430, 654-657.	13.7	1,089
109	Noncentrosymmetric cubic thio- and selenogermanates: A <sub>0.5</sub> M <sub>1.75</sub> GeQ <sub>4</sub> (A=Ag, Cu, Na; M=Pb, Eu; Q=S,) <i>Tj ETQqQ 0 0 rgBT /Overlock</i> 1.5 32	1.5	32
110	Self-assembled chromophores for hybrid solar cells. <i>Thin Solid Films</i> , 2004, 451-452, 16-21.	0.8	31
111	The application of a low-bandgap conjugated oligomer for the sensitization of SnO <sub>2</sub> and TiO <sub>2</sub> . <i>Thin Solid Films</i> , 2004, 451-452, 54-59.	0.8	20
112	Gel polymer electrolytes based on polyacrylonitrile and a novel quaternary ammonium salt for dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2004, 39, 2113-2118.	2.7	58
113	Optimization of polymer electrolytes for quasi-solid-state dye-sensitized solar cells. <i>Science Bulletin</i> , 2004, 49, 2033.	1.7	14
114	Plasmon-induced photoelectrochemistry at metal nanoparticles supported on nanoporous TiO <sub>2</sub> . <i>Chemical Communications</i> , 2004, , 1810.	2.2	428
115	Interpretation of the Time Constants Measured by Kinetic Techniques in Nanostructured Semiconductor Electrodes and Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2313-2322.	1.2	469
116	Factors limiting the efficiency of molecular photovoltaic devices. <i>Physical Review B</i> , 2004, 69, .	1.1	178
117	Vertical and Lateral Order in Adsorbed Water Layers on Anatase TiO <sub>2</sub> (101). <i>Langmuir</i> , 2004, 20, 8379-8384.	1.6	130
118	Correlation between dispersion properties of TiO <sub>2</sub> colloidal sols and photoelectric characteristics of TiO <sub>2</sub> films. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 479-483.	5.0	10
119	Nanocrystalline F-doped tin dioxide materials: texture, morphology and photosensitization with a perylene-substituted organotin. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1247-1254.	0.9	10
120	Microstructure characterization of titanium dioxide nanodispersions and thin films for dye-sensitized solar cell devices. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1819-1828.	1.1	16

#	ARTICLE	IF	CITATIONS
121	Analysis of the photovoltaic efficiency of a molecular solar cell based on a two-level system. Applied Physics A: Materials Science and Processing, 2004, 79, 15-20.	1.1	8
122	Novel room temperature ionic liquids of hexaalkyl substituted guanidinium salts for dye-sensitized solar cells. Applied Physics A: Materials Science and Processing, 2004, 79, 73-77.	1.1	83
123	Photovoltaic characteristics of dye-sensitized surface-modified nanocrystalline SnO <sub>2</sub> solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 161, 105-110.	2.0	114
124	Structured ZnO thin films grown by chemical bath deposition for photovoltaic applications. Physica Status Solidi A, 2004, 201, 1528-1536.	1.7	64
125	Cubic Mesoporous Frameworks with a Mixed Semiconductor Nanocrystalline Wall Structure and Enhanced Sensitivity to Visible Light. Angewandte Chemie - International Edition, 2004, 43, 3037-3040.	7.2	65
126	Highly Ordered SnO <sub>2</sub> Nanorod Arrays from Controlled Aqueous Growth. Angewandte Chemie - International Edition, 2004, 43, 3666-3670.	7.2	261
127	Porphyrin- and Fullerene-Based Molecular Photovoltaic Devices. Advanced Functional Materials, 2004, 14, 525-536.	7.8	448
128	Inorganic Nanocomposites of n- and p-Type Semiconductors: A New Type of Three-Dimensional Solar Cell. Advanced Materials, 2004, 16, 453-456.	11.1	156
129	Stable New Sensitizer with Improved Light Harvesting for Nanocrystalline Dye-Sensitized Solar Cells. Advanced Materials, 2004, 16, 1806-1811.	11.1	324
130	Form and Function in Multilayer Assembly: New Applications at the Nanoscale. Advanced Materials, 2004, 16, 1271-1293.	11.1	1,177
133	Low-Pressure Organometallic Chemical Vapor Deposition of Indium Nitride on Titanium Dioxide Nanoparticles. ChemPhysChem, 2004, 5, 1615-1618.	1.0	22
134	A Remarkable Ligand Orientational Effect in Osmium-Atom-Induced Blue Phosphorescence. Chemistry - A European Journal, 2004, 10, 6255-6264.	1.7	66
135	Highly efficient nanocrystalline titania films made from organic/inorganic nanocomposite gels. Microporous and Mesoporous Materials, 2004, 75, 255-260.	2.2	81
136	Preparation of pure rutile and anatase TiO <sub>2</sub> nanopowders using RF thermal plasma. Thin Solid Films, 2004, 457, 186-191.	0.8	95
137	Slow interfacial charge recombination in solid-state dye-sensitized solar cell using Al <sub>2</sub> O <sub>3</sub> -coated nanoporous TiO <sub>2</sub> films. Solar Energy Materials and Solar Cells, 2004, 81, 197-203.	3.0	106
138	Influence of electrolyte on the photovoltaic performance of a dye-sensitized TiO <sub>2</sub> solar cell based on a Ru(II) terpyridyl complex photosensitizer. Solar Energy Materials and Solar Cells, 2004, 85, 21-21.	3.0	7
139	Dye-sensitized solar cells, from cell to module. Solar Energy Materials and Solar Cells, 2004, 84, 125-133.	3.0	80
140	X-ray photoelectron spectroscopy of fluorescein adsorbed on model solar-cell surfaces. Surface Science, 2004, 548, 317-323.	0.8	17



#	ARTICLE	IF	CITATIONS
141	Electrical properties of nanocrystalline anatase TiO <sub>2</sub> thin films with different crystallite size. <i>Surface Science</i> , 2004, 566-568, 419-424.	0.8	35
142	Low temperature preparation of mesoporous TiO <sub>2</sub> films for efficient dye-sensitized photoelectrode by chemical vapor deposition combined with UV light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 187-191.	2.0	149
143	Deposition of polyaniline via molecular self-assembly on TiO <sub>2</sub> and its uses as a sensitizer in solid-state solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 61-66.	2.0	110
144	Conversion of sunlight to electric power by nanocrystalline dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 3-14.	2.0	2,079
145	Influence of quinoline derivatives in I <sup>3+</sup> /I <sup>2+</sup> redox electrolyte solution on the performance of Ru(II)-dye-sensitized nanocrystalline TiO <sub>2</sub> solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 165, 157-163.	2.0	22
146	Sensitization of TiO <sub>2</sub> with ruthenium complexes containing boronic acid functions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 166, 91-98.	2.0	47
147	Electrochemical characterization of species involved in photosynthesis: from proteins to model systems. <i>Journal of Electroanalytical Chemistry</i> , 2004, 564, 35-43.	1.9	11
148	Effect of the thickness of the Pt film coated on a counter electrode on the performance of a dye-sensitized solar cell. <i>Journal of Electroanalytical Chemistry</i> , 2004, 570, 257-263.	1.9	335
149	Sonoelectrochemical methods of preparing silver-coated TiO <sub>2</sub> nanoparticles with extremely high coverage. <i>Journal of Electroanalytical Chemistry</i> , 2004, 574, 71-75.	1.9	3
150	Solidifying liquid electrolytes with fluorine polymer and silica nanoparticles for quasi-solid dye-sensitized solar cells. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1241-1245.	0.9	105
151	The preparation of high-surface-area nanocrystalline TiO <sub>2</sub> films using easy-reaggregation particles in solution. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 110, 227-232.	1.7	20
152	Preparation of a highly active nanocrystalline TiO <sub>2</sub> photocatalyst from titanium oxo cluster precursor. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2584-2590.	1.4	50
153	Correlation of morphology and device performance in inorganic-organic TiO <sub>2</sub> -polythiophene hybrid solid-state solar cells. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1491-1499.	9.5	52
154	Design of molecular dyes for application in photoelectrochemical and electrochromic devices based on nanocrystalline metal oxide semiconductors. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1299-1316.	9.5	218
155	Random walk models of charge transfer and transport in dye sensitized systems. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1181-1194.	9.5	299
156	Metal complex sensitizers in dye-sensitized solar cells. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1343-1361.	9.5	488
157	Dye sensitization solar cells: a critical assessment of the learning curve. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1511-1530.	9.5	195
158	Nanocarving of titania (TiO <sub>2</sub> ): a novel approach for fabricating chemical sensing platform. <i>Ceramics International</i> , 2004, 30, 1121-1126.	2.3	37

#	ARTICLE	IF	CITATIONS
159	Theoretical study of vibrational wave-packet dynamics in electron-transfer systems. <i>Chemical Physics</i> , 2004, 296, 217-229.	0.9	39
160	Theoretical study of ultrafast heterogeneous electron transfer reactions at dye-semiconductor interfaces. <i>Chemical Physics</i> , 2004, 304, 169-181.	0.9	79
161	Rapid intersystem crossing in highly phosphorescent iridium complexes. <i>Chemical Physics Letters</i> , 2004, 386, 437-441.	1.2	150
162	Effect of TiO <sub>2</sub> nanoparticles on the electropolymerization of polypyrrole. <i>Chemical Physics Letters</i> , 2004, 387, 155-159.	1.2	56
163	Nonperturbative simulation of pump-probe spectra for electron transfer reactions in the condensed phase. <i>Chemical Physics Letters</i> , 2004, 389, 43-50.	1.2	40
164	Time-dependent density functional theory study of the absorption spectrum of [Ru(4,4'-COOH-2,2'-bpy) <sub>2</sub> (NCS) <sub>2</sub> ] in water solution: influence of the pH. <i>Chemical Physics Letters</i> , 2004, 389, 204-208.	1.2	121
165	Photoelectrochemical study on photosynthetic pigments-sensitized nanocrystalline ZnO films. <i>Bioelectrochemistry</i> , 2004, 63, 99-102.	2.4	20
166	Colloidal bismuth sulfide nanoparticles: a photoelectrochemical study of the relationship between bandgap and particle size. <i>Journal of Materials Chemistry</i> , 2004, 14, 704.	6.7	55
167	Green enzymatic synthesis of pegylated phenolic macromer and polymer. <i>Chemical Communications</i> , 2004, , 862-863.	2.2	7
168	Effects of Template and Precursor Chemistry on Structure and Properties of Mesoporous TiO <sub>2</sub> Thin Films. <i>Langmuir</i> , 2004, 20, 9095-9102.	1.6	15
169	Photoelectrochemical Study of Nitrogen-Doped Titanium Dioxide for Water Oxidation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5995-6003.	1.2	290
170	Excited-State Relaxation Dynamics of Ru(dcbpy) <sub>2</sub> (NCS) <sub>2</sub> , Studied by Fluorescence Upconversion Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12629-12632.	1.2	32
171	Energy and the Environment: Perpetual Dilemma or Nanotechnology-Enabled Opportunity?. <i>ACS Symposium Series</i> , 2004, , 324-330.	0.5	0
172	Langmuir-Blodgett Films of Poly(3-hexylthiophene) Doped with the Endohedral Metallofullerene Dy@C82: Preparation, Characterization, and Application in Photoelectrochemical Cells. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4394-4404.	1.2	65
173	Effect of TiO <sub>2</sub> Nanoparticles on the Improved Surface-Enhanced Raman Scattering of Polypyrrole Deposited on Roughened Gold Substrates. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14897-14900.	1.2	33
174	Unusual photophysical switching in a Ru(II) diimine DNA probe caused by amide functionalisation. <i>Dalton Transactions</i> , 2004, , 13.	1.6	45
175	Multicomponent redox gradients on photoactive electrode surfaces Electronic supplementary information (ESI) available: experimental section. See <a href="http://www.rsc.org/suppdata/cc/b4/b400027g/">http://www.rsc.org/suppdata/cc/b4/b400027g/</a> . <i>Chemical Communications</i> , 2004, , 726.	2.2	54
176	Heterogeneous colorimetric sensor for mercuric salts Electronic supplementary information (ESI) available: Materials and methods. See <a href="http://www.rsc.org/suppdata/cc/b3/b314138a/">http://www.rsc.org/suppdata/cc/b3/b314138a/</a> . <i>Chemical Communications</i> , 2004, , 362.	2.2	159

#	ARTICLE	IF	CITATIONS
177	Nanocrystalline metal electrodes for high-efficiency organic solar cells. <i>Applied Physics Letters</i> , 2004, 85, 1832-1834.	1.5	9
178	Copper Catalysis of the Oxidation of Iodide by [FeIII(bpy)2(CN)2]+in Acetonitrile. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7637-7638.	1.1	10
179	Mobility and decay kinetics of charge carriers in photoexcited PCBM/PPV blends. <i>Physical Review B</i> , 2004, 69, .	1.1	87
180	C60Cluster as an Electron Shuttle in a Ru(II)-Polypyridyl Sensitizer-Based Photochemical Solar Cell. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5166-5170.	1.2	152
181	Amphiphilic Ruthenium Sensitizer with 4,4'-Diphosphonic Acid-2,2'-bipyridine as Anchoring Ligand for Nanocrystalline Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17553-17559.	1.2	105
182	Carotenoid and Pheophytin on Semiconductor Surface: Self-Assembly and Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2004, 126, 3066-3067.	6.6	45
183	Microfabricated Palladium-Silver Alloy Membranes and Their Application in Hydrogen Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 4182-4187.	1.8	39
184	Structure and Vibrational Spectrum of Formate and Acetate Adsorbed from Aqueous Solution onto the TiO2 Rutile (110) Surface. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5004-5017.	1.2	212
185	Structure-Activity Relationship of Organic Acids in Titanium Dioxide Nanoparticle Dispersions. <i>Chemistry of Materials</i> , 2004, 16, 5138-5140.	3.2	9
186	Development of a Technology for Silicon Production by Recycling Wasted Optical Fiber. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 1890-1893.	1.8	7
187	Persistent Photoconductivity in Chemically Modified Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19976-19981.	1.2	48
188	Stepwise Charge Separation from a Ruthenium-Tyrosine Complex to a Nanocrystalline TiO2Film. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12904-12910.	1.2	28
189	Synthesis and Characterization of Sn Nanophases in a Ta2O5 Matrix. <i>Chemistry of Materials</i> , 2004, 16, 1991-1995.	3.2	30
190	Electron Transport and Back Reaction in Nanocrystalline TiO2 Films Prepared by Hydrothermal Crystallization. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2227-2235.	1.2	190
191	Ambient Temperature Plastic Crystal Electrolyte for Efficient, All-Solid-State Dye-Sensitized Solar Cell. <i>Journal of the American Chemical Society</i> , 2004, 126, 13590-13591.	6.6	196
192	Amphiphilic Polypyridyl Ruthenium Complexes with Substituted 2,2'-Dipyridylamine Ligands for Nanocrystalline Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2004, 16, 3246-3251.	3.2	50
193	Photoionization Threshold of Eumelanosomes Determined Using UV Free Electron Laser-Photoelectron Emission Microscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16334-16338.	1.2	23
194	An Ordered Retinoate Monolayer Prepared on Rutile TiO2(110). <i>Journal of Physical Chemistry B</i> , 2004, 108, 17166-17170.	1.2	24

#	ARTICLE	IF	CITATIONS
195	Free-Energy-Driven Transfer of Charge in Dense Electrochemically Active Monomolecular Films. Journal of Physical Chemistry B, 2004, 108, 15815-15819.	1.2	7
196	Controlled One-Step Synthesis of Nanocrystalline Anatase and Rutile TiO <sub>2</sub> Powders by In-Flight Thermal Plasma Oxidation. Journal of Physical Chemistry B, 2004, 108, 15536-15542.	1.2	68
197	Screening at a Charged Surface by a Molten Salt. Journal of Physical Chemistry B, 2004, 108, 11069-11072.	1.2	79
198	Photoelectron Spectroscopy Studies of Ru(dcbpyH <sub>2</sub> ) <sub>2</sub> (NCS) <sub>2</sub> /CuI and Ru(dcbpyH <sub>2</sub> ) <sub>2</sub> (NCS) <sub>2</sub> /CuSCN Interfaces for Solar Cell Applications. Journal of Physical Chemistry B, 2004, 108, 11604-11610.	1.2	37
199	Kinetics of Electron Transfer and Oxygen Evolution in the Reaction of [Ru(bpy) <sub>3</sub> ] <sup>3+</sup> with Colloidal Iridium Oxide. Journal of Physical Chemistry A, 2004, 108, 9115-9119.	1.1	145
200	Structural and Spectroscopic Studies on Pt <sup>II</sup> -Pt <sup>II</sup> and Pt <sup>II</sup> -Pt <sup>IV</sup> Interactions in Luminescent Multinuclear Cyclometalated Platinum(II) Homologues Tethered by Oligophosphine Auxiliaries. Journal of the American Chemical Society, 2004, 126, 7639-7651.	6.6	289
201	Preparation and phase transformation of highly ordered TiO <sub>2</sub> nanodot arrays on sapphire substrates. Applied Physics Letters, 2004, 84, 3888-3890.	1.5	38
202	Nanostructured Oxides in Chemistry: Characterization and Properties. Chemical Reviews, 2004, 104, 4063-4104.	23.0	909
203	Aligned TiO <sub>2</sub> Nanorods and Nanowalls. Journal of Physical Chemistry B, 2004, 108, 3377-3379.	1.2	263
204	Solar Cells. , 2004, , 545-557.		6
205	Electronic Band Structure of Titania Semiconductor Nanosheets Revealed by Electrochemical and Photoelectrochemical Studies. Journal of the American Chemical Society, 2004, 126, 5851-5858.	6.6	507
206	Hybrid Photoelectrochemical-Fuel Cell. ACS Symposium Series, 2004, , 361-367.	0.5	1
207	Intermittent Single-Molecule Interfacial Electron Transfer Dynamics. Journal of the American Chemical Society, 2004, 126, 9374-9381.	6.6	102
208	In Situ Observation of the Stability of Anatase Nanoparticles and Their Transformation to Rutile in an Acidic Solution. Langmuir, 2004, 20, 11732-11737.	1.6	57
209	Direct Fabrication of Composite and Ceramic Hollow Nanofibers by Electrospinning. Nano Letters, 2004, 4, 933-938.	4.5	1,158
210	Electrochemical Methods for the Preparation of Gold-Coated TiO <sub>2</sub> Nanoparticles with Variable Coverages. Langmuir, 2004, 20, 6951-6955.	1.6	34
211	Free-standing mesoporous titania films with anatase nanocrystallites synthesized at 80 °C. Chemical Communications, 2004, , 1016-1017.	2.2	30
212	Flexible, Dye-Sensitized Nanocrystalline Solar Cells Employing Biocatalytically Synthesized Polymeric Electrolytes. Chemistry of Materials, 2004, 16, 4841-4846.	3.2	42

#	ARTICLE	IF	CITATIONS
213	Electron Transfer-Induced Dynamics of Oxygen Molecules on the TiO <sub>2</sub> (110) Surface. <i>Science</i> , 2004, 303, 511-513.	6.0	171
214	Diffusion-limited transport of I <sub>3</sub> <sup>-</sup> through nanoporous TiO <sub>2</sub> -polymer gel networks. <i>Journal of Chemical Physics</i> , 2004, 121, 11374.	1.2	27
215	Sustainable Hydrogen Production. <i>Science</i> , 2004, 305, 972-974.	6.0	5,053
216	Solid state solar cell made from nanocrystalline TiO <sub>2</sub> with a fluorene-thiophene copolymer as a hole conductor. , 2004, , .		1
217	Supramolecular Photovoltaic Cells Based on Composite Molecular Nanoclusters: A Dendritic Porphyrin and C <sub>60</sub> , Porphyrin Dimer and C <sub>60</sub> , and Porphyrin-C <sub>60</sub> Dyad. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12865-12872.	1.2	153
218	Giant Multiporphyrin Arrays as Artificial Light-Harvesting Antennas. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6130-6143.	1.2	352
219	A Porous Multilayer Dye-Based Photoelectrochemical Cell That Unexpectedly Runs in Reverse. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4111-4115.	1.2	66
220	Tandem dye-sensitized solar cell for improved power conversion efficiencies. <i>Applied Physics Letters</i> , 2004, 84, 3397-3399.	1.5	184
221	Effect of Additives on the Photovoltaic Performance of Coumarin-Dye-Sensitized Nanocrystalline TiO <sub>2</sub> Solar Cells. <i>Langmuir</i> , 2004, 20, 4205-4210.	1.6	398
222	Dye-sensitized solar cells employing a highly conductive and mechanically robust nanocomposite gel electrolyte. <i>Synthetic Metals</i> , 2004, 144, 291-296.	2.1	72
223	Improving the efficiency of titania aerogel-based photovoltaic electrodes by electrochemically grafting isopropyl moieties on the titania surface. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 107-112.	1.5	17
224	Organic solar cells: An overview. <i>Journal of Materials Research</i> , 2004, 19, 1924-1945.	1.2	2,242
225	A Binary Ionic Liquid Electrolyte to Achieve ~7% Power Conversion Efficiencies in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2004, 16, 2694-2696.	3.2	361
226	Time-Dependent DFT Study of [Fe(CN) <sub>6</sub> ] <sup>4-</sup> -Sensitization of TiO <sub>2</sub> Nanoparticles. <i>Journal of the American Chemical Society</i> , 2004, 126, 15024-15025.	6.6	228
227	A Solvent-Free, SeCN <sup>-</sup> /(SeCN) <sub>3</sub> <sup>-</sup> -Based Ionic Liquid Electrolyte for High-Efficiency Dye-Sensitized Nanocrystalline Solar Cells. <i>Journal of the American Chemical Society</i> , 2004, 126, 7164-7165.	6.6	364
228	Preparation of Porous TiO <sub>2</sub> Cryogel Fibers through Unidirectional Freezing of Hydrogel Followed by Freeze-Drying. <i>Chemistry of Materials</i> , 2004, 16, 4987-4991.	3.2	89
229	Photoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15446-15449.	1.2	625
230	Power sources for nanotechnology. <i>International Journal of Nanotechnology</i> , 2004, 1, 226.	0.1	11

#	ARTICLE	IF	CITATIONS
231	Chapter 27 Fabrication, physics, and chemistry toward organic nanophotonics. Handai Nanophotonics, 2004, , 439-448.	0.0	0
232	Photosensitive materials. , 2005, , 63-83.		2
233	Optimizations of quasi-solid-state dye-sensitized solar cells. , 2005, 5938, 173.		0
234	Nanoparticles for Electronic Device Applications: A Brief Review. Journal of Chemical Engineering of Japan, 2005, 38, 535-546.	0.3	154
235	Nanosized inorganic/organic composites for solar energy conversion. Journal of Materials Chemistry, 2005, 15, 114.	6.7	60
236	Photocatalytic Electron Transfer in Hybrid Titania Nanosheets Studied by Nanosecond Laser Flash Photolysis. Chemistry Letters, 2005, 34, 1522-1523.	0.7	19
237	Mesoscopic Solar Cells for Electricity and Hydrogen Production from Sunlight. Chemistry Letters, 2005, 34, 8-13.	0.7	358
238	Characterization of copper indium ditelluride/electrolyte interface utilizing electrochemical impedance spectroscopy. Applied Surface Science, 2005, 242, 168-176.	3.1	20
239	Photovoltaic performance of dye-sensitized solar cell assembled with gel polymer electrolyte. Journal of Power Sources, 2005, 149, 112-116.	4.0	84
240	Solid-state sensitized solar cells, using [Ru(dcbpyH <sub>2</sub> ) <sub>2</sub> Cl <sub>2</sub> ] $\cdot$ 2H <sub>2</sub> O as the dye and PEO/titania/I <sup>3+</sup> as the redox electrolyte. Journal of Materials Processing Technology, 2005, 161, 234-240.	3.1	22
241	Influence of nitrogen-containing heterocyclic additives in I <sup>3+</sup> redox electrolytic solution on the performance of Ru-dye-sensitized nanocrystalline TiO <sub>2</sub> solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 169, 169-176.	2.0	69
242	Density functional study of imidazole-iodine interaction and its implication in dye-sensitized solar cell. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 171, 197-204.	2.0	19
243	Dye sensitization of nanocrystalline TiO <sub>2</sub> : enhanced efficiency of unsymmetrical versus symmetrical squaraine dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 172, 63-71.	2.0	165
244	Improvement of photovoltaic performance of solid-state dye-sensitized solar cells by iodine doping in conjugated polymer. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 172, 135-139.	2.0	5
245	Enhanced efficiency of dye-sensitized TiO <sub>2</sub> solar cells (DSSC) by doping of metal ions. Journal of Colloid and Interface Science, 2005, 283, 482-487.	5.0	258
246	Thermal evaporation growth and the luminescence property of TiO <sub>2</sub> nanowires. Journal of Crystal Growth, 2005, 281, 384-390.	0.7	170
247	Highly efficient orange-emitting OLEDs based on phosphorescent platinum(II) complexes. Polyhedron, 2005, 24, 881-888.	1.0	51
248	Solar-hydrogen: Environmentally safe fuel for the future. International Journal of Hydrogen Energy, 2005, 30, 521-544.	3.8	345

#	ARTICLE	IF	CITATIONS
249	Mesoporous TiO <sub>2</sub> with wormlike structure synthesized via interfacial surfactant assisted route. <i>Microporous and Mesoporous Materials</i> , 2005, 83, 19-24.	2.2	19
250	A novel high-performance counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2005, 50, 5546-5552.	2.6	65
251	Nanocrystalline anatase TiO <sub>2</sub> thin films: preparation and crystallite size-dependent properties. <i>Thin Solid Films</i> , 2005, 472, 114-124.	0.8	77
252	Study of ultrafast carrier dynamics of nanostructured TiO <sub>2</sub> films with and without CdSe quantum dot deposition using lens-free heterodyne detection transient grating technique. <i>Thin Solid Films</i> , 2005, 486, 15-19.	0.8	45
253	Nanostructured materials for solar energy conversion. <i>Solar Energy</i> , 2005, 79, 110-121.	2.9	160
254	Triplet exciton diffusion and delayed interfacial charge separation in a TiO <sub>2</sub> /PdTPPC bilayer: Monte Carlo simulations. <i>Solar Energy Materials and Solar Cells</i> , 2005, 85, 189-203.	3.0	25
255	Influence of pyrazole derivatives in I <sup>2</sup> /I <sup>3+</sup> redox electrolyte solution on Ru(II)-dye-sensitized TiO <sub>2</sub> solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2005, 85, 333-344.	3.0	39
256	An equivalent circuit approach to the modelling of the dynamics of dye sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2005, 87, 613-628.	3.0	36
257	Dye-sensitized TiO <sub>2</sub> thin-film solar cell research at the National Renewable Energy Laboratory (NREL). <i>Solar Energy Materials and Solar Cells</i> , 2005, 88, 1-10.	3.0	88
258	Synthesis and characterization of nanoporous, nanorods, nanowires metal oxides. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 224-229.	2.8	44
259	Supramolecular design of photocurrent-generating devices using fullerenes aimed at modelling artificial photosynthesis. <i>Tetrahedron</i> , 2005, 61, 4881-4899.	1.0	105
260	Synthesis of novel ruthenium sensitizers and their application in dye-sensitized solar cells. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1460-1467.	9.5	262
261	Preparation and characterization of mesoporous MO <sub>2</sub> (M=Ti, Ce, Zr, and Hf) nanopowders by a modified sol-gel method. <i>Ceramics International</i> , 2005, 31, 959-963.	2.3	30
262	Comparison of the size of excitonic effects in molecular $\pi$ systems as measured by core and valence spectroscopies. <i>Chemical Physics</i> , 2005, 312, 39-45.	0.9	32
263	Density functional study of the TiO <sub>2</sub> -dopamine complex. <i>Chemical Physics Letters</i> , 2005, 406, 306-311.	1.2	67
264	Molecular orientation of F16ZnPc deposited on Au and Mg substrates studied by NEXAFS and IRRAS. <i>Chemical Physics Letters</i> , 2005, 413, 373-378.	1.2	18
265	Time dependent density functional theory study of the absorption spectrum of the [Ru(4,4'-COO <sup>-</sup> -2,2'-bpy)2(X)2]4 <sup>+</sup> (X=NCS, Cl) dyes in water solution. <i>Chemical Physics Letters</i> , 2005, 415, 115-120.	1.2	91
266	Layer-by-layer deposition of TiO <sub>2</sub> nanoparticles. <i>Applied Surface Science</i> , 2005, 246, 415-419.	3.1	18

#	ARTICLE	IF	CITATIONS
267	FT-IR, XPS and PEC characterization of spray deposited hematite thin films. <i>Applied Surface Science</i> , 2005, 252, 1870-1875.	3.1	63
268	Dye-sensitized anodic TiO <sub>2</sub> nanotubes. <i>Electrochemistry Communications</i> , 2005, 7, 1133-1137.	2.3	369
269	Al <sub>2</sub> O <sub>3</sub> -coated SnO <sub>2</sub> /TiO <sub>2</sub> composite electrode for the dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2005, 50, 2583-2589.	2.6	57
270	Synthesis of highly ordered SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> composite nanowire arrays by electrophoretic deposition method. <i>Science Bulletin</i> , 2005, 50, 1044.	1.7	4
271	Efficient Light Harvesting by Using Green Zn-Porphyrin-Sensitized Nanocrystalline TiO <sub>2</sub> Films. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15397-15409.	1.2	425
272	Mechanisms and Applications of Plasmon-Induced Charge Separation at TiO <sub>2</sub> Films Loaded with Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2005, 127, 7632-7637.	6.6	1,842
273	Remote and Adjacent Excited-State Electron Transfer at TiO <sub>2</sub> Interfaces Sensitized to Visible Light with Ru(II) Compounds. <i>Inorganic Chemistry</i> , 2005, 44, 9305-9313.	1.9	49
274	Molecular Approaches to Solar Energy Conversion with Coordination Compounds Anchored to Semiconductor Surfaces. <i>Inorganic Chemistry</i> , 2005, 44, 6852-6864.	1.9	232
275	Electrical transport in passivated Pt/TiO <sub>2</sub> /Ti Schottky diodes. <i>Journal of Applied Physics</i> , 2005, 98, 104501.	1.1	33
276	Photoelectrochemical Cells Based on Inherently Conducting Polymers. <i>MRS Bulletin</i> , 2005, 30, 46-49.	1.7	16
277	Solar Energy Conversion by Dye-Sensitized Photovoltaic Cells. <i>Inorganic Chemistry</i> , 2005, 44, 6841-6851.	1.9	3,119
278	Electrochemical Impedance Spectroscopic Analysis of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14945-14953.	1.2	1,855
279	Low-temperature fabrication of dye-sensitized solar cells by transfer of composite porous layers. <i>Nature Materials</i> , 2005, 4, 607-611.	13.3	377
280	Nanoionics: ion transport and electrochemical storage in confined systems. <i>Nature Materials</i> , 2005, 4, 805-815.	13.3	1,356
281	High-efficiency carrier multiplication through direct photogeneration of multi-excitons via virtual single-exciton states. <i>Nature Physics</i> , 2005, 1, 189-194.	6.5	446
282	Microstructural Evolution of Titania Nanocrystallites by a Hydrothermal Treatment: A HRTEM study. <i>Journal of the American Ceramic Society</i> , 2005, 88, 443-446.	1.9	26
283	Scandium-Doped Anatase (TiO <sub>2</sub> ) Nanoparticles Directly Formed by Hydrothermal Crystallization. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2604-2607.	1.9	21
284	Anatase-Type TiO <sub>2</sub> and ZrO <sub>2</sub> -Doped TiO <sub>2</sub> Directly Formed from Titanium(III) Sulfate Solution by Thermal Hydrolysis: Effect of the Presence of Ammonium Peroxodisulfate on their Formation and Properties. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3303-3310.	1.9	12



#	ARTICLE	IF	CITATIONS
285	The research on the surface photovoltaic properties of porphyrin affected by nano-TiO <sub>2</sub> . <i>Materials Chemistry and Physics</i> , 2005, 90, 203-206.	2.0	6
286	The use of ZrO <sub>2</sub> mixed TiO <sub>2</sub> nanostructures as efficient dye-sensitized solar cells' electrodes. <i>Materials Letters</i> , 2005, 59, 4038-4040.	1.3	40
287	Theoretical study of quinolines-I <sub>2</sub> intermolecular interaction and implications on dye-sensitized solar cell performance. <i>Journal of Computational Chemistry</i> , 2005, 26, 1372-1382.	1.5	15
288	Synthesis and Characterization of Some Aza[5]helicenes. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1247-1257.	1.2	79
289	Novel Preparation and Photoelectrochemical Properties of I <sup>3</sup> -CuI Semiconductor Nanocrystallites on Screen-Printed Carbon Electrodes. <i>Electroanalysis</i> , 2005, 17, 1822-1827.	1.5	9
290	Photoelectrochemical Properties of TiO <sub>2</sub> Films Modified with Gold Nanoparticles. <i>Chinese Journal of Chemistry</i> , 2005, 23, 18-22.	2.6	16
291	Through versus Cross Electron Delocalization in Polytriacetylene Oligomers: A Computational Analysis. <i>ChemPhysChem</i> , 2005, 6, 511-519.	1.0	16
292	Energy Transfer in Single-Molecule Photonic Wires. <i>ChemPhysChem</i> , 2005, 6, 819-827.	1.0	60
293	Zn-Porphyrin-Sensitized Nanocrystalline TiO <sub>2</sub> Heterojunction Photovoltaic Cells. <i>ChemPhysChem</i> , 2005, 6, 1253-1258.	1.0	99
294	Rapid I <sup>2</sup> /I <sup>3</sup> Diffusion in a Molecular-Plastic-Crystal Electrolyte for Potential Application in Solid-State Photoelectrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 313-316.	7.2	59
295	Single-Wall Carbon Nanotubes as Integrative Building Blocks for Solar-Energy Conversion. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2015-2018.	7.2	232
296	Photocatalytic Nanodiodes for Visible-Light Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4585-4589.	7.2	402
297	Liquid Inorganic-Organic Nanocomposites: Novel Electrolytes and Ferrofluids. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3809-3811.	7.2	43
298	Ion-Coordinating Sensitizer in Solid-State Hybrid Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6413-6417.	7.2	76
304	Facile Fabrication and Integration of Patterned Nanostructured TiO <sub>2</sub> for Microsystems Applications. <i>Advanced Functional Materials</i> , 2005, 15, 396-402.	7.8	45
305	Solar-Energy Conversion in TiO <sub>2</sub> /CuInS <sub>2</sub> Nanocomposites. <i>Advanced Functional Materials</i> , 2005, 15, 95-100.	7.8	108
306	The Effect of Polymer Optoelectronic Properties on the Performance of Multilayer Hybrid Polymer/TiO <sub>2</sub> Solar Cells. <i>Advanced Functional Materials</i> , 2005, 15, 609-618.	7.8	166
307	Formation of Oxynitride as the Photocatalytic Enhancing Site in Nitrogen-Doped Titania Nanocatalysts: Comparison to a Commercial Nanopowder. <i>Advanced Functional Materials</i> , 2005, 15, 41-49.	7.8	402

#	ARTICLE	IF	CITATIONS
308	Novel Conjugated Organic Dyes for Efficient Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2005, 15, 246-252.	7.8	409
309	A Hybrid Poly(ethylene oxide)/ Poly(vinylidene fluoride)/TiO <sub>2</sub> Nanoparticle Solid-State Redox Electrolyte for Dye-Sensitized Nanocrystalline Solar Cells. <i>Advanced Functional Materials</i> , 2005, 15, 1940-1944.	7.8	188
310	From ZnO Colloids to Nanocrystalline Colored Zn <sub>x</sub> Ti <sub>y</sub> O <sub>w</sub> -zN <sub>z</sub> Spinel Films. <i>Advanced Materials</i> , 2005, 17, 294-297.	11.1	37
311	Nanostructured TiO <sub>2</sub> Films with 2.6 eV Optical Gap. <i>Advanced Materials</i> , 2005, 17, 1842-1846.	11.1	148
312	Hydrogen economy - an opportunity for chemical engineers?. <i>AIChE Journal</i> , 2005, 51, 1582-1589.	1.8	45
313	Metal-Directed Synthesis and Photophysical Studies of Trinuclear V-Shaped and Pentanuclear X-Shaped Ruthenium and Osmium Metalloids and Metallostars Based upon 4-(3,5-Dihydroxyphenyl)-2,6-terpyridine Divergent Units. <i>Chemistry - A European Journal</i> , 2005, 11, 4024-4034.	1.7	40
314	Host-Guest Interactions in the Supramolecular Incorporation of Fullerenes into Tailored Holes on Porphyrin-Modified Gold Nanoparticles in Molecular Photovoltaics. <i>Chemistry - A European Journal</i> , 2005, 11, 7265-7275.	1.7	66
315	Preparation and characterization of mesoporous TiO <sub>2</sub> /CeO <sub>2</sub> nanopowders respond to visible wavelength. <i>Journal of Solid State Chemistry</i> , 2005, 178, 128-134.	1.4	94
316	Synthesis of titanate, TiO <sub>2</sub> (B), and anatase TiO <sub>2</sub> nanofibers from natural rutile sand. <i>Journal of Solid State Chemistry</i> , 2005, 178, 3110-3116.	1.4	134
317	TiO <sub>2</sub> phytate films as hosts and conduits for cytochrome c electrochemistry. <i>Bioelectrochemistry</i> , 2005, 66, 41-47.	2.4	34
318	Photocatalytic degradation of methylene blue on nanocrystalline TiO <sub>2</sub> : Surface mass spectrometry of reaction intermediates. <i>International Journal of Mass Spectrometry</i> , 2005, 245, 61-67.	0.7	123
319	Relaxation of plasmons in nm-sized metal particles located on or embedded in an amorphous semiconductor. <i>Surface Science</i> , 2005, 599, L372-L375.	0.8	28
320	Mesoporous electrode material from alumina-stabilized anatase TiO <sub>2</sub> for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 138-145.	1.2	36
321	Versatile preparation method for mesoporous TiO <sub>2</sub> electrodes suitable for solid-state dye sensitized photocells. <i>Bulletin of Materials Science</i> , 2005, 28, 635-641.	0.8	15
322	Solid state photoelectrochemical cells utilising graphite thin films counter electrode. <i>Ionics</i> , 2005, 11, 275-280.	1.2	3
323	Synthesis, characterizations and applications of some nanomaterials (TiO <sub>2</sub> and SiC nanostructured) <i>Journal of Applied Physics</i> , 2005, 65, 581-592.	0.9	6
324	Iridium(III) Tris-cyclometalated Complexes with Diphenyloxazolic Ligands: Influence of Ligand Structure on Electrochemical and Photophysical Properties. <i>Transition Metal Chemistry</i> , 2005, 30, 786-791.	0.7	11
325	Photocatalytic Water Splitting on Visible Light-responsive TiO <sub>2</sub> Thin Films Prepared by a RF Magnetron Sputtering Deposition Method. <i>Topics in Catalysis</i> , 2005, 35, 305-310.	1.3	69

#	ARTICLE	IF	CITATIONS
326	The Low Temperature Processing of Titanium Dioxide Films by the Addition of Trimesic Acid. Journal of Sol-Gel Science and Technology, 2005, 36, 157-162.	1.1	7
327	Synthesis of Iron(III)-Doped Titania Nanoparticles and its Application for Photodegradation of Sulforhodamine-B Pollutant. Journal of Nanoparticle Research, 2005, 7, 489-498.	0.8	47
328	Use of porous GaAs electrodes in photoelectrochemical cells. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1678-1682.	0.8	9
329	A General Chemical Conversion Method to Various Semiconductor Hollow Structures. Small, 2005, 1, 216-221.	5.2	79
330	Bio-nanocomposite Photoelectrode Composed of the BacteriaPhotosynthetic Reaction Center Entrapped on a NanocrystallineTiO <sub>2</sub> Matrix. Sensors, 2005, 5, 258-265.	2.1	18
332	Twin Cell Technology for Hydrogen Generation. , 2005, , 1-5.		1
333	Quantum Mechanical/Molecular Mechanical (QM/MM) Car-Parrinello Simulations in Excited States. Chimia, 2005, 59, 493-498.	0.3	34
334	Nanocrystalline TiO <sub>2</sub> powders synthesized by in-flight oxidation of TiN in thermal plasma: Mechanisms of phase selection and particle morphology evolution. Journal of Materials Research, 2005, 20, 529-537.	1.2	38
335	Applications of Free-Electron Lasers in the Biological and Material Sciences. Photochemistry and Photobiology, 2005, 81, 711.	1.3	46
336	Unassisted Water Splitting from Bipolar Pt-Dye-Sensitized TiO <sub>2</sub> Photoelectrode Arrays. Electrochemical and Solid-State Letters, 2005, 8, G371.	2.2	38
337	Pulsed Laser Deposition of Cluster-Assembled Thin Films with Controlled Nanostructure. Materials Research Society Symposia Proceedings, 2005, 901, 1.	0.1	0
338	Materials for photoelectrochemical devices. , 2005, , 35-62.		5
339	Sensitization of Nanocrystalline SnO <sub>2</sub> Films with Indoline Dyes. Japanese Journal of Applied Physics, 2005, 44, L731-L733.	0.8	46
340	Electronic structure and femtosecond electron transfer dynamics at noble metal/tris-(8-hydroxyquinoline) aluminum interfaces. Physical Review B, 2005, 71, .	1.1	24
342	Photoelectrode materials of tungsten oxide (wO <sub>3</sub> ) for water splitting. , 0, , .		0
343	Fast computation of the Kohn-Sham susceptibility of large systems. Physical Review B, 2005, 72, .	1.1	4
344	High temperature effect on photo-induced electron transfer. Molecular Physics, 2005, 103, 83-88.	0.8	0
345	Photoelectrochemistry of Pure and Core/Sheath Nanowire Arrays of Cu <sub>2</sub> S Directly Grown on Copper Electrodes. Journal of the Electrochemical Society, 2005, 152, G220.	1.3	18

#	ARTICLE	IF	CITATIONS
346	Nitrogen Doping of Reactively Sputtered Tungsten Oxide Films. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, G301.	2.2	74
347	Group III-nitride Materials for High Efficiency Photoelectrochemical Cells. <i>Materials Research Society Symposia Proceedings</i> , 2005, 884, 1.	0.1	3
348	Adsorption of Fluorescein Isothiocyanate Isomer-I (FITC-I) Dye on TiO <sub>2</sub> (110) from an Acetone Solution. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 5438-5442.	0.8	12
349	Dye-Sensitized Solid-State Heterojunction Solar Cells. <i>MRS Bulletin</i> , 2005, 30, 23-27.	1.7	180
350	Facile Fabrication and Integration of Patterned Nanostructured Titania into Microsystems: Effect of Parent Ti Microstructure on Kinetics of Reaction. <i>Materials Research Society Symposia Proceedings</i> , 2005, 876, 1.	0.1	0
351	Chemical Approaches to Artificial Photosynthesis. 2. <i>Inorganic Chemistry</i> , 2005, 44, 6802-6827.	1.9	887
352	3-D Molecular Assembly of Function in Titania-Based Composite Material Systems. <i>Accounts of Chemical Research</i> , 2005, 38, 263-271.	7.6	136
353	Molecular aggregations and supramolecular architectures of amphiphilic PEO17-OPV3 and its hybrid with silica. <i>Journal of Materials Chemistry</i> , 2005, 15, 4154.	6.7	4
354	Nano-Structured Materials for the Conversion of Sustainable Energy. , 2005, , 271-280.		1
355	Organic dyes containing thienylfluorene conjugation for solar cells. <i>Chemical Communications</i> , 2005, , 4098.	2.2	185
356	Synthesis of classes of ternary metal oxide nanostructures. <i>Chemical Communications</i> , 2005, , 5721.	2.2	163
357	Raman spectroscopy characterization of titania nanoparticles produced by flame pyrolysis: The influence of size and stoichiometry. <i>Journal of Applied Physics</i> , 2005, 98, 074305.	1.1	272
358	Optimization of Hybrid Photoelectrodes for Solar Water-Splitting. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A247-A249.	2.2	82
359	Influence of 4-Guanidinobutyric Acid as Coadsorbent in Reducing Recombination in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21818-21824.	1.2	265
360	Assembly of hydrothermally synthesized tin oxide nanocrystals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005, 23, 731-736.	0.9	3
361	Structure and energetics of water adsorbed on the ZnO(101̄0) surface. <i>Physical Review B</i> , 2005, 72, .	1.1	64
362	Enhancement of electrochemical and photoelectrochemical properties of fibrous Zn and ZnO electrodes. <i>Chemical Communications</i> , 2005, , 3328.	2.2	31
363	Photophysical study of a family of [Ru(phen) <sub>2</sub> (Mendpq)] <sup>2+</sup> complexes in different solvents and DNA: a specific water effect promoted by methyl substitution. <i>Dalton Transactions</i> , 2005, , 1123.	1.6	43

#	ARTICLE	IF	CITATIONS
364	Current-less photoreactivity catalyzed by functionalized AFM tips. <i>Chemical Communications</i> , 2005, , 4598.	2.2	14
365	Immobilisation of electroactive macrocyclic complexes within titania films. <i>Dalton Transactions</i> , 2005, , 2508.	1.6	12
366	Electron transport in silver-semiconductor nanocomposite films exhibiting multicolor photochromism. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3851.	1.3	178
367	Photoexcited carrier dynamic characterization of TiO <sub>2</sub> /sub 2/ electrodes composed of different size mixture of nanoparticles sensitized with cdse quantum dots. , 2005, , .		0
368	Electron Transfer Dynamics from Organic Adsorbate to a Semiconductor Surface: Zinc Phthalocyanine on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry B</i> , 2005, 109, 18018-18024.	1.2	33
369	Enhancement in Photoelectric Conversion Properties of the Dye-Sensitized Nanocrystalline Solar Cells Based on the Hybrid TiO <sub>2</sub> Electrode. <i>Journal of the Electrochemical Society</i> , 2005, 152, A164.	1.3	39
370	Photoelectric Performance of Bacteria Photosynthetic Proteins Entrapped on Tailored Mesoporous WO <sub>3</sub> -TiO <sub>2</sub> Films. <i>Langmuir</i> , 2005, 21, 4071-4076.	1.6	76
371	Triplet State Photosensitization of Nanocrystalline Metal Oxide Electrodes by Zinc-Substituted Cytochrome: Application to Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2005, 127, 15120-15126.	6.6	36
372	Reactions of Hydrazoic Acid on TiO <sub>2</sub> Nanoparticles: an Experimental and Computational Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5133-5142.	1.2	14
373	New Route to Ordered Double Perovskites: Synthesis of Rock Salt Oxides, Li <sub>4</sub> MWO <sub>6</sub> , and Their Transformation to Sr <sub>2</sub> MWO <sub>6</sub> (M = Mg, Mn, Fe, Ni) via Metathesis. <i>Chemistry of Materials</i> , 2005, 17, 2310-2316.	3.2	36
374	Chemical Tuning of the Electronic Properties in a Periodic Surfactant-Templated Nanostructured Semiconductor. <i>Journal of the American Chemical Society</i> , 2005, 127, 12516-12527.	6.6	42
375	Reactions of Trimethylindium on TiO <sub>2</sub> Nanoparticles: An Experimental and Computational Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20858-20867.	1.2	15
376	Rationale for Kinetic Heterogeneity of Ultrafast Light-Induced Electron Transfer from Ru(II) Complex Sensitizers to Nanocrystalline TiO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2005, 127, 12150-12151.	6.6	213
377	Enhancement of Light-Energy Conversion Efficiency by Multi-Porphyrin Arrays of Porphyrin~Peptide Oligomers with Fullerene Clusters. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19-23.	1.2	175
378	Probing Inhomogeneous Vibrational Reorganization Energy Barriers of Interfacial Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16390-16395.	1.2	29
379	Solvent Effects on Interfacial Electron Transfer from Ru(4,4'-dicarboxylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 147 Td (acti-2) <i>Journal of Physical Chemistry A</i> , 2005, 109, 11443-11452.	1.1	53
380	Exciton Diffusion and Interfacial Charge Separation in meso-Tetraphenylporphyrin/TiO <sub>2</sub> Bilayers: Effect of Ethyl Substituents. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20166-20173.	1.2	56
381	Cross Surface Ambipolar Charge Percolation in Molecular Triads on Mesoscopic Oxide Films. <i>Journal of the American Chemical Society</i> , 2005, 127, 5706-5713.	6.6	75

#	ARTICLE	IF	CITATIONS
382	Charge Separation and Efficient Light Energy Conversion in Sensitized Mesoscopic Solar Cells Based on Binary Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2005, 127, 6850-6856.	6.6	383
383	Combined Experimental and DFT-TDDFT Computational Study of Photoelectrochemical Cell Ruthenium Sensitizers. <i>Journal of the American Chemical Society</i> , 2005, 127, 16835-16847.	6.6	2,645
384	Photocatalytic hydrogen production from water-methanol mixtures using N-doped Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> under visible light irradiation: effects of catalyst structure. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1315-1321.	1.3	104
385	Adsorption of Water on Reconstructed Rutile TiO <sub>2</sub> (011)-(2 $\times$ 1): $\%$ TiO Double Bonds and Surface Reactivity. <i>Journal of the American Chemical Society</i> , 2005, 127, 9895-9903.	6.6	111
386	Interfacial properties of photovoltaic TiO <sub>2</sub> /dye/PEDOT-PSS heterojunctions. <i>Synthetic Metals</i> , 2005, 149, 157-167.	2.1	33
387	Enhancement of the photocurrent generation in dye-sensitized solar cell based on electrospun TiO <sub>2</sub> electrode by surface treatment. <i>Synthetic Metals</i> , 2005, 155, 635-638.	2.1	71
388	Organic Dyes Incorporating Low-Band-Gap Chromophores for Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2005, 7, 1899-1902.	2.4	428
389	The role of acid in the formation of hydrogen-bonded networks featuring 4,4'-dicarboxy-2,2'-bipyridine (H <sub>2</sub> dcbp): Synthesis, structural and magnetic characterisation of {[Cu(H <sub>2</sub> dcbp)Cl <sub>2</sub> ] $\cdot$ H <sub>2</sub> O} <sub>2</sub> and [Cu(H <sub>2</sub> dcbp)(NO <sub>3</sub> ) <sub>2</sub> (H <sub>2</sub> O)]. <i>CrystEngComm</i> , 2005, 7, 90-95.	1.3	86
390	Oxygen Vacancy Promoting Catalytic Dehydration of Formic Acid on TiO <sub>2</sub> (110) by in Situ Scanning Tunneling Microscopic Observation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18831-18838.	1.2	96
391	Calculated Structural and Electronic Interactions of the Ruthenium Dye N3 with a Titanium Dioxide Nanocrystal. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11918-11924.	1.2	181
392	Phase Transition between Nanostructures of Titanate and Titanium Dioxides via Simple Wet-Chemical Reactions. <i>Journal of the American Chemical Society</i> , 2005, 127, 6730-6736.	6.6	409
393	Anomaly of charge transport of an iodide/tri-iodide redox couple in an ionic liquid and its importance in dye-sensitized solar cells. <i>Chemical Communications</i> , 2005, , 2107.	2.2	148
394	Boosting Fuel Cell Performance with a Semiconductor Photocatalyst: $\%$ TiO <sub>2</sub> /Pt-Ru Hybrid Catalyst for Methanol Oxidation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11851-11857.	1.2	263
395	Engineering of a Novel Ruthenium Sensitizer and Its Application in Dye-Sensitized Solar Cells for Conversion of Sunlight into Electricity. <i>Inorganic Chemistry</i> , 2005, 44, 178-180.	1.9	189
396	A Strategy To Increase the Efficiency of the Dye-Sensitized TiO <sub>2</sub> Solar Cells Operated by Photoexcitation of Dye-to-TiO <sub>2</sub> Charge-Transfer Bands. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22513-22522.	1.2	189
397	Depositional Characteristics of Metal Coating on Single-Crystal TiO <sub>2</sub> Nanowires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12372-12375.	1.2	46
398	Enhanced Photocleavage of Water Using Titania Nanotube Arrays. <i>Nano Letters</i> , 2005, 5, 191-195.	4.5	1,093
399	Organized Mesoporous TiO <sub>2</sub> Films Exhibiting Greatly Enhanced Performance in Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2005, 5, 1789-1792.	4.5	520

#	ARTICLE	IF	CITATIONS
400	Finite-size and pressure effects on the Raman spectrum of nanocrystalline anataseTiO <sub>2</sub> . Physical Review B, 2005, 71, .	1.1	374
401	Blue Copper Model Complexes with Distorted Tetragonal Geometry Acting as Effective Electron-Transfer Mediators in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2005, 127, 9648-9654.	6.6	287
402	Charge Transport versus Recombination in Dye-Sensitized Solar Cells Employing Nanocrystalline TiO <sub>2</sub> and SnO <sub>2</sub> Films. Journal of Physical Chemistry B, 2005, 109, 12525-12533.	1.2	377
403	Nanowire-based dye-sensitized solar cells. Applied Physics Letters, 2005, 86, 053114.	1.5	969
404	The Effect of Electrolyte Composition on the Fabrication of Self-Organized Titanium Oxide Nanotube Arrays by Anodic Oxidation. Journal of Materials Research, 2005, 20, 230-236.	1.2	546
405	Sensitized Hole Injection of Phosphorus Porphyrin into NiO:Â Toward New Photovoltaic Devices. Journal of Physical Chemistry B, 2005, 109, 22928-22934.	1.2	188
406	Light-to-Chemical Energy Conversion in Lamellar Solids and Thin Films. Inorganic Chemistry, 2005, 44, 6828-6840.	1.9	133
407	Photovoltaic Cells Using Composite Nanoclusters of Porphyrins and Fullerenes with Gold Nanoparticles. Journal of the American Chemical Society, 2005, 127, 1216-1228.	6.6	454
408	Organization of supramolecular assembly of 9-mesityl-10-carboxymethylacridinium ion and fullerene clusters on TiO <sub>2</sub> nanoparticles for light energy conversion. Journal of Materials Chemistry, 2005, 15, 372.	6.7	35
409	Libraries of cluster-assembled titania films for chemical sensing. Applied Physics Letters, 2005, 87, 103108.	1.5	52
410	Simultaneous Inhibition and Redistribution of Spontaneous Light Emission in Photonic Crystals. Science, 2005, 308, 1296-1298.	6.0	451
411	Structure and Dynamics of a Confined Ionic Liquid. Topics of Relevance to Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 17922-17927.	1.2	202
412	Stable 34% efficient nanocrystalline dye-sensitized solar cell based on an electrolyte of low volatility. Applied Physics Letters, 2005, 86, 123508.	1.5	154
413	Molecular photosensors of self-assembled monolayers: electron acceptorâ€“photosensitizer dyad on an ITO surface. New Journal of Chemistry, 2005, 29, 1022.	1.4	18
414	Influence of Thermal Fluctuations on Interfacial Electron Transfer in Functionalized TiO <sub>2</sub> Semiconductors. Journal of the American Chemical Society, 2005, 127, 18234-18242.	6.6	196
415	Nanocrystalline TiO <sub>2</sub> /ZnO Thin Films:Â Fabrication and Application to Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2005, 109, 24254-24259.	1.2	252
416	Preparation and Characterization of Sodium Tantalate Thin Films by Hydrothermalâ€“Electrochemical Synthesis. Chemistry of Materials, 2005, 17, 2422-2426.	3.2	53
417	Biomimetic Assemblies of Carbon Nanostructures for Photochemical Energy Conversion. Journal of Physical Chemistry B, 2005, 109, 11432-11441.	1.2	118

#	ARTICLE	IF	CITATIONS
418	Preparations and Characterizations of Bichromophoric Systems Composed of a Ruthenium Polypyridine Complex Connected to a Difluoroborazaindacene or a Zinc Phthalocyanine Chromophore. <i>Inorganic Chemistry</i> , 2005, 44, 5600-5611.	1.9	53
419	Photocurrent Generation from Semiconducting Manganese Oxide Nanosheets in Response to Visible Light. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9651-9655.	1.2	184
420	Hydrogen Bonding Effects on the Surface Structure and Photoelectrochemical Properties of Nanostructured SnO <sub>2</sub> Electrodes Modified with Porphyrin and Fullerene Composites. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18465-18474.	1.2	34
421	Multifunctional Hybrid Materials Based on Conducting Organic Polymers. Nanocomposite Systems with Photo-Electro-Ionic Properties and Applications. , 2005, , 210-269.		1
422	Origin of Light-Harvesting Enhancement in Colloidal-Photonic-Crystal-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15968-15976.	1.2	201
423	A High Molar Extinction Coefficient Sensitizer for Stable Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2005, 127, 808-809.	6.6	507
424	Electrodeposition of mesoporous CdTe films with the aid of citric acid from lyotropic liquid crystalline phases. <i>Journal of Materials Chemistry</i> , 2006, 16, 3207.	6.7	24
425	Synthesis and Characterization of TiO <sub>2</sub> @C Core-Shell Composite Nanoparticles and Evaluation of Their Photocatalytic Activities. <i>Chemistry of Materials</i> , 2006, 18, 2275-2282.	3.2	166
426	Dye-Sensitized Solar Cells Based on Anatase TiO <sub>2</sub> Nanoparticle/Nanowire Composites. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15932-15938.	1.2	578
428	N <sub>4</sub> -Macrocyclic Metal Complexes. , 2006, , .		131
429	Translucent Thin Film Fe <sub>2</sub> O <sub>3</sub> Photoanodes for Efficient Water Splitting by Sunlight: Nanostructure-Directing Effect of Si-Doping. <i>Journal of the American Chemical Society</i> , 2006, 128, 4582-4583.	6.6	770
431	Imaging Water Dissociation on TiO <sub>2</sub> (110): Evidence for Inequivalent Geminate OH Groups. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21840-21845.	1.2	212
432	Room-Temperature Preparation of Nanocrystalline TiO <sub>2</sub> Films and the Influence of Surface Properties on Dye-Sensitized Solar Energy Conversion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21890-21898.	1.2	115
433	Silica-Titania-Based Organic-Inorganic Hybrid Materials for Photovoltaic Applications. <i>Chemistry of Materials</i> , 2006, 18, 4157-4162.	3.2	34
434	Femtosecond Fluorescence Dynamics of Porphyrin in Solution and Solid Films: The Effects of Aggregation and Interfacial Electron Transfer between Porphyrin and TiO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2006, 110, 410-419.	1.2	95
435	Oxygen Release and Exchange in Niobium Oxide MEHPPV Hybrid Solar Cells. <i>Chemistry of Materials</i> , 2006, 18, 5684-5690.	3.2	115
436	Preparation of tin dioxide nanotubes via electrosynthesis in a template. <i>Journal of Materials Chemistry</i> , 2006, 16, 2843-2845.	6.7	52
437	Photoelectrochemical water splitting at titanium dioxide nanotubes coated with tungsten trioxide. <i>Applied Physics Letters</i> , 2006, 89, 163106.	1.5	103



#	ARTICLE	IF	CITATIONS
438	Ultrafast Interfacial Proton-Coupled Electron Transfer. <i>Science</i> , 2006, 311, 1436-1440.	6.0	206
439	Density Functional Theory Study of Tetrathiafulvalene and Thianthrene in Acetonitrile:Â Structure, Dynamics, and Redox Propertiesâ€. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3614-3623.	1.2	38
440	Solvated Electrons on Metal Oxide Surfaces. <i>Chemical Reviews</i> , 2006, 106, 4402-4427.	23.0	133
441	Manipulated photocurrent generation from pigment-exchanged photosynthetic proteins adsorbed to nanostructured WO3â€TiO2 electrodes. <i>Chemical Communications</i> , 2006, , 785.	2.2	18
442	Photoelectrochemical characterisation and optimisation of electrodeposited ZnO thin films sensitised by porphyrins and phthalocyanines. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3867-3875.	1.3	26
443	Toward Efficient Hydrogen Production at Surfaces. <i>Science</i> , 2006, 312, 1322-1323.	6.0	407
444	Photocatalytic Ohmic layered nanocomposite for efficient utilization of visible light photons. <i>Applied Physics Letters</i> , 2006, 89, 064103.	1.5	66
445	UV-Manipulated wettability between superhydrophobicity and superhydrophilicity on a transparent and conductive SnO2 nanorod film. <i>Chemical Communications</i> , 2006, , 2753.	2.2	145
446	An efficient organogelator for ionic liquids to prepare stable quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2006, 16, 2978-2983.	6.7	130
447	Alternative fluoride scavengers to produce TiO2films by the liquid phase deposition (LPD) technique. <i>Journal of Materials Chemistry</i> , 2006, 16, 2249-2255.	6.7	30
448	Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. <i>Journal of Materials Chemistry</i> , 2006, 16, 3721.	6.7	38
449	Synthesis of nanoparticle-assembled tin oxide/polymer microcapsules. <i>Chemical Communications</i> , 2006, , 1097.	2.2	44
450	The New Design of Dye-Sensitized Solar Cell Adopted by Sputter Deposition of Counter Electrode. , 2006, , .		1
451	Photoelectrochemical Tandem Cell with Bipolar Dye-Sensitized Electrodes for Vectorial Electron Transfer for Water Splitting. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, E5-E8.	2.2	66
452	Quantum Dot Solar Cells. Harvesting Light Energy with CdSe Nanocrystals Molecularly Linked to Mesoscopic TiO2Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 2385-2393.	6.6	1,724
453	Light intensity, temperature, and thickness dependence of the open-circuit voltage in solid-state dye-sensitized solar cells. <i>Physical Review B</i> , 2006, 74, .	1.1	166
454	ZnOâ~Al2O3and ZnOâ~TiO2Coreâ~Shell Nanowire Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22652-22663.	1.2	686
455	Surface Science Studies of the Photoactivation of TiO2New Photochemical Processes. <i>Chemical Reviews</i> , 2006, 106, 4428-4453.	23.0	1,944

#	ARTICLE	IF	CITATIONS
456	Synthesis and Characterization of Nitrogen-Doped ZnO Films Grown by MOCVD. , 2006, , 43-83.		3
457	Defect-mode mirrorless lasing in dye-doped organic/inorganic hybrid one-dimensional photonic crystal. Applied Physics Letters, 2006, 88, 091102.	1.5	71
458	Ab initiostudy of metal-organic framework-5Zn4O(1,4-benzenedicarboxylate)3: An assessment of mechanical and spectroscopic properties. Physical Review B, 2006, 73, .	1.1	83
459	Transparent-conducting, gas-sensing nanostructures (nanotubes, nanowires, and thin films) of titanium oxide synthesized at near-ambient conditions. Journal of Materials Research, 2006, 21, 2894-2903.	1.2	27
460	Porphyrin-rhodanine dyads for dye sensitized solar cells. Journal of Porphyrins and Phthalocyanines, 2006, 10, 1007-1016.	0.4	59
461	Photoelectrochemical properties of N-doped self-organized titania nanotube layers with different thicknesses. Journal of Materials Research, 2006, 21, 2824-2828.	1.2	90
462	Effect of the Anchoring Group (Carboxylate vs Phosphonate) in Ru-Complex-Sensitized TiO2on Hydrogen Production under Visible Light. Journal of Physical Chemistry B, 2006, 110, 14792-14799.	1.2	180
463	Nanocrystalline Injection Solar Cells. , 2006, , 363-385.		5
464	Spectral Broadening in Nanocrystalline TiO2 Solar Cells Based on Poly(p-phenylene ethynylene) and Polythiophene Sensitizers. Chemistry of Materials, 2006, 18, 6109-6111.	3.2	82
465	Synthesis and Characterization of Ultrathin WO3Nanodisks Utilizing Long-Chain Poly(ethylene Terephthalate) as a Template. Journal of Materials Research, 2006, 21, 1074-1079.	1.2	132
466	Photocatalytic Decomposition of an Alkylammonium Cation in a Langmuir-Blodgett Film of a Titania Nanosheet. Langmuir, 2006, 22, 3870-3877.	1.6	58
467	Sol-gel assisted ZnO nanorod array template to synthesize TiO2nanotube arrays. Nanotechnology, 2006, 17, 4695-4698.	1.3	117
468	Alkyl Chain Barriers for Kinetic Optimization in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 16376-16383.	6.6	254
469	ZrO2-Modified Mesoporous Nanocrystalline TiO2-xNxas Efficient Visible Light Photocatalysts. Environmental Science & Technology, 2006, 40, 2369-2374.	4.6	224
470	Effects of Nanocrystalline Porous TiO2 Films on Interface Adsorption of Phthalocyanines and Polymer Electrolytes in Dye-Sensitized Solar Cells. Macromolecular Symposia, 2006, 235, 230-236.	0.4	18
471	Synthesis and Characterization of Ultrahigh Crystalline TiO2Nanotubes. Journal of Physical Chemistry B, 2006, 110, 6626-6630.	1.2	181
472	Structure and Photoelectrochemical Properties of Phthalocyanine and Perylene Diimide Composite Clusters Deposited Electrophoretically on Nanostructured SnO2 Electrodes. Langmuir, 2006, 22, 5497-5503.	1.6	20
473	Toward Exceeding the Shockley-Queisser Limit: Photoinduced Interfacial Charge Transfer Processes that Store Energy in Excess of the Equilibrated Excited State. Journal of the American Chemical Society, 2006, 128, 8234-8245.	6.6	75

#	ARTICLE	IF	CITATIONS
474	Singlet Fission for Dye-Sensitized Solar Cells: Can a Suitable Sensitizer Be Found?. <i>Journal of the American Chemical Society</i> , 2006, 128, 16546-16553.	6.6	375
475	Theoretical Study of Ultrafast Heterogeneous Electron Transfer Reactions at Dye-Semiconductor Interfaces: Coumarin 343 at Titanium Oxide. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1364-1374.	1.1	80
476	Transition Metal Ion Impregnated Mesoporous TiO <sub>2</sub> for Photocatalytic Degradation of Organic Contaminants in Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 5231-5238.	1.8	169
477	Theoretical band energetics of Ba(M <sub>0.5</sub> Sn <sub>0.5</sub> )O <sub>3</sub> for solar photoactive applications. <i>Journal of Applied Physics</i> , 2006, 100, 124915.	1.1	41
478	Stable Mesoscopic Dye-Sensitized Solar Cells Based on Tetracyanoborate Ionic Liquid Electrolyte. <i>Journal of the American Chemical Society</i> , 2006, 128, 7732-7733.	6.6	441
479	Theoretical Study of Adsorption of O(3P) and H <sub>2</sub> O on the Rutile TiO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23306-23314.	1.2	34
480	Aqueous Solvation Dynamics at Metal Oxide Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7835-7844.	1.2	6
481	Use of a Ruthenium-Containing Conjugated Polymer as a Photosensitizer in Photovoltaic Devices Fabricated by a Layer-by-Layer Deposition Process. <i>Langmuir</i> , 2006, 22, 3368-3375.	1.6	61
482	Oxidation of Iodide by a Series of Fe(III) Complexes in Acetonitrile. <i>Inorganic Chemistry</i> , 2006, 45, 3415-3423.	1.9	70
483	Effect of Functional Group (Fluorine) of Aromatic Thiols on Electron Transfer at the Molecule-Metal Interface. <i>Journal of the American Chemical Society</i> , 2006, 128, 935-939.	6.6	47
484	Comment on "Photoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticles". <i>Journal of Physical Chemistry B</i> , 2006, 110, 7079-7080.	1.2	87
485	Band-Gap Engineering of Metal Oxides for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21899-21902.	1.2	89
486	Reply to "Comment on 'Photoelectron Spectroscopic Investigation of Nitrogen-Doped Titania Nanoparticles'". <i>Journal of Physical Chemistry B</i> , 2006, 110, 7081-7082.	1.2	17
487	Reactions of Hydrazoic Acid and Trimethylindium on TiO <sub>2</sub> Rutile (110) Surface: A Computational Study on the Formation of the First Monolayer InN. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2263-2270.	1.2	13
488	Effect of the Anchoring Group in Ru-Bipyridyl Sensitizers on the Photoelectrochemical Behavior of Dye-Sensitized TiO <sub>2</sub> Electrodes: Carboxylate versus Phosphonate Linkages. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8740-8749.	1.2	188
489	Molecular Wiring of Nanocrystals: NCS-Enhanced Cross-Surface Charge Transfer in Self-Assembled Ru-Complex Monolayer on Mesoscopic Oxide Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 4446-4452.	6.6	99
490	Comparison of the Self-Exchange and Interfacial Charge-Transfer Rate Constants for Methyl- versus tert-Butyl-Substituted Os(III) Polypyridyl Complexes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25514-25520.	1.2	15
491	Cheap and Environmentally Benign Electrochemical Energy Storage and Conversion Devices Based on Al <sub>2</sub> O <sub>3</sub> Electrolytes. <i>Journal of the American Chemical Society</i> , 2006, 128, 8720-8721.	6.6	46

#	ARTICLE	IF	CITATIONS
492	Conductivity of ZnO Nanowires, Nanoparticles, and Thin Films Using Time-Resolved Terahertz Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25229-25239.	1.2	372
493	Dynamics of charge transport and recombination in ZnO nanorod array dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4655.	1.3	193
494	Ion Coordinating Sensitizer for High Efficiency Mesoscopic Dye-Sensitized Solar Cells: Influence of Lithium Ions on the Photovoltaic Performance of Liquid and Solid-State Cells. <i>Nano Letters</i> , 2006, 6, 769-773.	4.5	161
495	Effects of Electron Transfer between TiO <sub>2</sub> Films and Conducting Substrates on the Photocatalytic Oxidation of Organic Pollutants. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13470-13476.	1.2	83
496	Hollow PbWO <sub>4</sub> Nanospindles via a Facile Sonochemical Route. <i>Inorganic Chemistry</i> , 2006, 45, 8403-8407.	1.9	98
497	Multielectron Transfer at Heme-Functionalized Nanocrystalline TiO <sub>2</sub> : Reductive Dechlorination of DDT and CCl <sub>4</sub> Forms Stable Carbene Compounds. <i>Nano Letters</i> , 2006, 6, 1284-1286.	4.5	38
498	CNTs/CdTe Versatile Donor-Acceptor Nanohybrids. <i>Journal of the American Chemical Society</i> , 2006, 128, 2315-2323.	6.6	219
499	Low-Temperature Reactively Sputtered Tungsten Oxide Films for Solar-Powered Water Splitting Applications. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, G248.	2.2	73
500	Density Functional Study of the Interfacial Electron Transfer Pathway for Monolayer-Adsorbed InN on the TiO <sub>2</sub> Anatase (101) Surface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23460-23466.	1.2	19
501	Static and Dynamic Quenching of Ru(II) Polypyridyl Excited States by Iodide. <i>Inorganic Chemistry</i> , 2006, 45, 362-369.	1.9	58
502	Synthesis and Growth Mechanism of Titanate and Titania One-Dimensional Nanostructures Self-Assembled into Hollow Micrometer-Scale Spherical Aggregates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 702-710.	1.2	130
503	Electrochemical Reduction of CO <sub>2</sub> to Methane at the Cu Electrode in Methanol with Sodium Supporting Salts and Its Comparison with Other Alkaline Salts. <i>Energy &amp; Fuels</i> , 2006, 20, 409-414.	2.5	104
504	High-Temperature and Long-Term Stable Solid-State Electrolyte for Dye-Sensitized Solar Cells by Self-assembly. <i>Chemistry of Materials</i> , 2006, 18, 5173-5177.	3.2	96
505	Storage of hydrogen and lithium in inorganic nanotubes and nanowires. <i>Journal of Materials Research</i> , 2006, 21, 2744-2757.	1.2	71
506	Electronic, optical, and magnetic properties of Fe-intercalated H <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> nanotubes: First-principles calculations and experiments. <i>Physical Review B</i> , 2006, 73, .	1.1	57
507	The surface oxidation potential of human neuromelanin reveals a spherical architecture with a pheomelanin core and a eumelanin surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14785-14789.	3.3	151
508	Synthesis of Niobia Nanocrystals with Controlled Morphology. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18088-18090.	1.2	47
509	Theoretical Study of the Electronic Structure and Stability of Titanium Dioxide Clusters (TiO <sub>2</sub> ) <sub>n</sub> with n=1-9. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8998-9007.	1.2	242

#	ARTICLE	IF	CITATIONS
510	Full spectrum enhancement of the light harvesting efficiency of dye sensitized solar cells by including colloidal photonic crystal multilayers. <i>Applied Physics Letters</i> , 2006, 88, 193110.	1.5	86
511	Properties of small TiO <sub>2</sub> , ZrO <sub>2</sub> and HfO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry</i> , 2006, 16, 1927-1933.	6.7	69
512	Influence of a TiCl <sub>4</sub> Post-Treatment on Nanocrystalline TiO <sub>2</sub> Films in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19191-19197.	1.2	523
513	Synthesis, Characterization, and DFT-TDDFT Computational Study of a Ruthenium Complex Containing a Functionalized Tetradentate Ligand. <i>Inorganic Chemistry</i> , 2006, 45, 4642-4653.	1.9	167
514	Comparison of Electrode Structures and Photovoltaic Properties of Porphyrin-Sensitized Solar Cells with TiO <sub>2</sub> and Nb, Ge, Zr-Added TiO <sub>2</sub> Composite Electrodes. <i>Langmuir</i> , 2006, 22, 11405-11411.	1.6	115
515	Photoinduced Direct Electron Transfer from InSe to GaSe Semiconductor Nanoparticles. <i>Nano Letters</i> , 2006, 6, 116-122.	4.5	21
516	Photosynthesis as a power supply for (bio-)hydrogen production. <i>Trends in Plant Science</i> , 2006, 11, 543-549.	4.3	139
517	Thin organic layers for photography and electronic devices. <i>International Journal of Photoenergy</i> , 2006, 2006, 1-8.	1.4	2
518	J-aggregates of amphiphilic cyanine dyes: Self-organization of artificial light harvesting complexes. <i>International Journal of Photoenergy</i> , 2006, 2006, 1-21.	1.4	48
520	Porous Acetylene-black Spheres as the Cathode Materials of Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , 2006, 35, 1266-1267.	0.7	34
521	Thioglycolic Acid-assisted Solvothermal Synthesis of CuInS <sub>2</sub> with Controllable Microstructures. <i>Chemistry Letters</i> , 2006, 35, 1050-1051.	0.7	8
522	Development and Photovoltaic Performance of Oligothiophene-sensitized TiO <sub>2</sub> Solar Cells. <i>Chemistry Letters</i> , 2006, 35, 592-593.	0.7	41
523	Visible Light-Induced Electron Transfers in Titania Nanosheet and Mesoporous Silica Integrated Films. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 386-396.	2.0	30
524	Structural and functional investigations of biological catalysts for optimization of solar-driven H <sub>2</sub> production systems. , 2006, 6340, 259.		6
526	Development of nanostructured titanium oxide thin films using a gas carving technique. , 2006, , .		0
527	Photovoltaic Devices. , 2006, , 8-1-8-27.		0
528	Aggregation of Zinc Protoporphyrin in Anodized Aluminum Oxide (AAO) Nanoporous Environments. <i>Journal of the Chinese Chemical Society</i> , 2006, 53, 201-208.	0.8	7
529	New bio-inorganic photo-electronic devices based on photosynthetic proteins. , 2006, 6370, 101.		2

#	ARTICLE	IF	CITATIONS
530	Fluorescence Dynamics of Zinc Protoporphyrin in Solution and inside Anodized Aluminum Oxide (AAO) Nano-channel Arrays. <i>Journal of the Chinese Chemical Society</i> , 2006, 53, 1405-1412.	0.8	7
531	Computational study of titanium (IV) complexes with organic chromophores. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 1291-1303.	1.0	47
532	Photovoltaic characterization of dye-sensitized solar cells: effect of device masking on conversion efficiency. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 589-601.	4.4	291
533	The advent of mesoscopic injection solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2006, 14, 429-442.	4.4	292
534	Synthesis and perspectives of complex crystalline nano-structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1329-1336.	0.8	10
535	Synthesis and Characterization of Porous Single-Crystalline Titanium Dioxide Nanorods. <i>Journal of the American Ceramic Society</i> , 2006, 89, 720-723.	1.9	3
536	Direct visualization of defect-mediated dissociation of water on TiO <sub>2</sub> (110). <i>Nature Materials</i> , 2006, 5, 189-192.	13.3	583
537	All-solid-state Z-scheme in CdS-Au-TiO <sub>2</sub> three-component nanojunction system. <i>Nature Materials</i> , 2006, 5, 782-786.	13.3	1,266
538	Photovoltaic performance and long-term stability of dye-sensitized mesoscopic solar cells. <i>Comptes Rendus Chimie</i> , 2006, 9, 578-583.	0.2	183
539	Environmentally friendly LiI/ethanol based gel electrolyte for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2006, 8, 170-172.	2.3	35
540	Reversible lithium insertion into Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> structure. <i>Electrochemistry Communications</i> , 2006, 8, 673-677.	2.3	74
541	The magic world of nanocrystals, from batteries to solar cells. <i>Current Applied Physics</i> , 2006, 6, e2-e7.	1.1	15
542	Structural and photovoltaic properties of binary TiO <sub>2</sub> -ZrO <sub>2</sub> oxides system prepared by sol-gel method. <i>Composites Science and Technology</i> , 2006, 66, 1259-1265.	3.8	54
543	Photoexcited hole dynamics in TiO <sub>2</sub> nanocrystalline films characterized using a lens-free heterodyne detection transient grating technique. <i>Chemical Physics Letters</i> , 2006, 419, 464-468.	1.2	53
544	New application of photocatalytic TiO <sub>2</sub> nanoparticles on the improved surface-enhanced Raman scattering. <i>Chemical Physics Letters</i> , 2006, 420, 245-249.	1.2	16
545	Photoelectrochemical application of nanotubular titania photoanode. <i>Electrochimica Acta</i> , 2006, 51, 3399-3406.	2.6	103
546	Electrodeposited nanoporous ZnO films exhibiting enhanced performance in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2006, 51, 5870-5875.	2.6	146
547	Photoelectrochemical properties of hybrid junctions based on zinc phthalocyanine and semiconducting colloidal nanocrystals. <i>Electrochimica Acta</i> , 2006, 51, 5120-5124.	2.6	7

#	ARTICLE	IF	CITATIONS
548	Infrared spectra of oxalate, malonate and succinate adsorbed on the aqueous surface of rutile, anatase and lepidocrocite measured with in situ ATR-FTIR. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2006, 150, 208-219.	0.8	194
549	Solar photovoltaics R&D at the tipping point: A 2005 technology overview. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2006, 150, 105-135.	0.8	247
550	Heterogeneous mesoporous oxides grown in porous anodic alumina. <i>Microporous and Mesoporous Materials</i> , 2006, 88, 214-219.	2.2	15
551	Mesostructured self-assembled titania films for photovoltaic applications. <i>Microporous and Mesoporous Materials</i> , 2006, 88, 304-311.	2.2	48
552	Effect of Fe-doping on the pore structure of mesoporous titania. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 134, 76-79.	1.7	27
553	Electronic properties of nanoporous TiO <sub>2</sub> films investigated in real space by means of scanning tunnelling spectroscopy. <i>Applied Surface Science</i> , 2006, 252, 3903-3911.	3.1	7
554	Strong composition-dependent variation of MCs <sup>+</sup> calibration factors in TiO <sub>x</sub> and GeO <sub>x</sub> (x ≈ 2) films. <i>Applied Surface Science</i> , 2006, 252, 7054-7057.	3.1	1
555	Colloidal CdSe@ZnS core-shell nanoparticles: Dependence of physical properties on initial Cd to Se concentration. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 33, 388-393.	1.3	11
556	Visible light photoelectrochemical and water-photoelectrolysis properties of titania nanotube arrays. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 178, 8-15.	2.0	193
557	Probing of photocatalytic surface sites on SO <sub>4</sub> <sup>2-</sup> /TiO <sub>2</sub> solid acids by in situ FT-IR spectroscopy and pyridine adsorption. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 179, 339-347.	2.0	184
558	Photovoltaic properties of ordered mesoporous silica thin film electrodes encapsulating titanium dioxide particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 166-173.	2.0	8
559	Theoretical studies of 1:1 charge-transfer complexes between nitrogen-containing heterocycles and I <sub>2</sub> molecules, and implications on the performance of dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 268-273.	2.0	40
560	Dynamic preparation of TiO <sub>2</sub> films for fabrication of dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 182, 187-191.	2.0	56
561	Mechanism of squarylium cyanine and Ru(dcbpy) <sub>2</sub> (NCS) <sub>2</sub> co-sensitization of colloidal TiO <sub>2</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 183, 138-145.	2.0	25
562	Enhanced photoresponses of polypyrrole on surface modified TiO <sub>2</sub> with self-assembled monolayers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 184, 234-239.	2.0	57
563	Determination of photo conversion efficiency of nanotubular titanium oxide photo-electrochemical cell for solar hydrogen generation. <i>Journal of Power Sources</i> , 2006, 159, 1258-1265.	4.0	96
564	A quasi-solid-state dye-sensitized solar cell based on the stable polymer-grafted nanoparticle composite electrolyte. <i>Journal of Power Sources</i> , 2006, 160, 1451-1455.	4.0	75
565	Fabrication and photoelectrochemical properties of porous ZnWO <sub>4</sub> film. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2562-2570.	1.4	97

#	ARTICLE	IF	CITATIONS
566	Enhancement of titanium dioxide photocatalysis by water-soluble fullerenes. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 166-171.	5.0	71
567	Computer simulations of light scattering and mass transport of dye-sensitized nanocrystalline solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2006, 588, 51-58.	1.9	23
568	High crystalline tungsten trioxide thin layer obtained by SPD technique. <i>Journal of the European Ceramic Society</i> , 2006, 26, 571-576.	2.8	18
569	Structural characterization and morphology of electrospun TiO <sub>2</sub> nanofibers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 131, 147-155.	1.7	161
570	Natural dyes as photosensitizers for dye-sensitized solar cell. <i>Solar Energy</i> , 2006, 80, 209-214.	2.9	509
571	Review of recent progress in solid-state dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 549-573.	3.0	628
572	Dye-sensitized solar cells based on semiconductor morphologies with ZnO nanowires. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 607-622.	3.0	344
573	Density functional study of alkylpyridine-iodine interaction and its implications in the open-circuit photovoltage of dye-sensitized solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 953-966.	3.0	18
574	A novel UV-mediated low-temperature sintering of TiO <sub>2</sub> for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1041-1051.	3.0	52
575	Improved efficiency of dye sensitized solar cells by treatment of the dyed titania electrode with alkyl(trialkoxysilanes. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1296-1307.	3.0	22
576	Study on the preparation of titania films for photocatalytic application by micro-arc oxidation. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2449-2455.	3.0	28
577	The influence of surface morphology of TiO <sub>2</sub> coating on the performance of dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2398-2404.	3.0	78
578	A review on highly ordered, vertically oriented TiO <sub>2</sub> nanotube arrays: Fabrication, material properties, and solar energy applications. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 2011-2075.	3.0	1,834
579	Bonding of metal-free phthalocyanine to TiO <sub>2</sub> (110) single crystal. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 3602-3613.	3.0	35
580	Structural transformations in nanocrystalline anatase TiO <sub>2</sub> films upon annealing in air. <i>Surface Science</i> , 2006, 600, 4347-4351.	0.8	20
581	Structure and photoelectrochemical properties of nanostructured SnO <sub>2</sub> electrodes deposited electrophoretically with the composite clusters of porphyrin-modified gold nanoparticle with a long spacer and fullerene. <i>Tetrahedron</i> , 2006, 62, 1955-1966.	1.0	24
582	Electrodeposition of porous zinc oxide electrodes in the presence of sodium laurylsulfate. <i>Thin Solid Films</i> , 2006, 497, 163-169.	0.8	65
583	Effect of the structure of substituents on charge separation in meso-tetraphenylporphyrin/TiO <sub>2</sub> bilayers. <i>Thin Solid Films</i> , 2006, 511-512, 208-213.	0.8	8



#	ARTICLE	IF	CITATIONS
584	Different mesoporous titania films for solid-state dye sensitised solar cells. <i>Thin Solid Films</i> , 2006, 511-512, 187-194.	0.8	38
585	Fabricating highly active mixed phase TiO <sub>2</sub> photocatalysts by reactive DC magnetron sputter deposition. <i>Thin Solid Films</i> , 2006, 515, 1176-1181.	0.8	90
586	Three-Channel Transmission Line Impedance Model for Mesoscopic Oxide Electrodes Functionalized with a Conductive Coating. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11284-11290.	1.2	103
587	Synthesis and characterization of ZnO nanowires and their integration into dye-sensitized solar cells. <i>Nanotechnology</i> , 2006, 17, S304-S312.	1.3	408
588	Simple photovoltaic cells for exploring solar energy concepts. <i>Physics Education</i> , 2006, 41, 409-419.	0.3	11
589	Effects of downconversion luminescent film in dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2006, 88, 173119.	1.5	110
590	DFT-INDO/S Modeling of New High Molar Extinction Coefficient Charge-Transfer Sensitizers for Solar Cell Applications. <i>Inorganic Chemistry</i> , 2006, 45, 787-797.	1.9	126
591	Constrained Density Functional Theory and Its Application in Long-Range Electron Transfer. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 765-774.	2.3	250
592	Self-ordering of metal-free phthalocyanine on InAs(100) and InSb(100). <i>Journal of Physics Condensed Matter</i> , 2006, 18, 10707-10723.	0.7	14
593	Nd-Doped TiO <sub>2</sub> Nanorods: Preparation and Application in Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2006, 1, 737-741.	1.7	47
594	Light-Driven Water Splitting for (Bio-)Hydrogen Production: Photosystem 2 as the Central Part of a Bioelectrochemical Device. <i>Photochemistry and Photobiology</i> , 2006, 82, 1385.	1.3	117
595	High-efficiency (7.2%) flexible dye-sensitized solar cells with Ti-metal substrate for nanocrystalline-TiO <sub>2</sub> photoanode. <i>Chemical Communications</i> , 2006, , 4004-4006.	2.2	399
596	Direct Calculation of Electron Transfer Parameters through Constrained Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9212-9218.	1.1	212
597	Use of Highly-Ordered TiO <sub>2</sub> Nanotube Arrays in Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2006, 6, 215-218.	4.5	2,144
598	Dynamic NMR spectroscopy in studies of the kinetics of photoinduced chemical exchange in solutions. <i>Russian Chemical Bulletin</i> , 2006, 55, 1691-1702.	0.4	1
599	Preparation and characterization of TiO <sub>2</sub> /Ti film electrodes by anodization at low voltage for photoelectrocatalytic application. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 663-668.	1.5	32
600	Highly luminescent CdSe nanoparticles embedded in silica thin films. <i>Journal of Electroceramics</i> , 2006, 17, 21-29.	0.8	7
601	Low-temperature preparation of nanocrystalline anatase films through a sol-gel route. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 229-233.	1.1	20

#	ARTICLE	IF	CITATIONS
602	The effect of cationic disorder on the optical and electrochemical behavior of nanocrystalline ZnO prepared from peroxide precursors. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 320-328.	1.2	8
603	Molecular orientations, electronic properties and charge transfer timescale in a Zn-porphyrin/C70 donor-acceptor complex for solar cells. <i>Surface Science</i> , 2006, 600, 4018-4023.	0.8	26
604	Effect of protein orientation on electron transfer between photosynthetic reaction centers and carbon electrodes. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1023-1028.	5.3	83
605	The structural and photoluminescence studies related to the surface of the TiO <sub>2</sub> sol prepared by wet chemical method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 134, 27-31.	1.7	55
606	TiO <sub>2</sub> photocatalytic films on stainless steel: The role of Degussa P-25 in modified sol-gel methods. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 255-264.	10.8	152
607	Photocatalytic effect of carbon-modified n-TiO <sub>2</sub> nanoparticles under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 312-317.	10.8	164
608	Enhancement of photoinduced hydrogen production from irradiated Pt/TiO <sub>2</sub> suspensions with simultaneous degradation of azo-dyes. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 171-179.	10.8	187
609	Correlation of structural properties and film thickness to photocatalytic activity of thick TiO <sub>2</sub> films coated on stainless steel. <i>Applied Catalysis B: Environmental</i> , 2006, 69, 24-33.	10.8	130
610	Fabrication of ordered SnO <sub>2</sub> nanotube arrays via a template route. <i>Materials Chemistry and Physics</i> , 2006, 99, 127-130.	2.0	62
611	Structural and optical properties of chemically deposited thin films of quantum-sized bismuth(III) sulfide. <i>Materials Chemistry and Physics</i> , 2006, 99, 39-49.	2.0	60
612	Intrinsic effect of H <sub>2</sub> O on the structural characteristic of TiO <sub>2</sub> synthesized by using polyethylene glycol as template. <i>Materials Letters</i> , 2006, 60, 2795-2798.	1.3	6
613	Nanocrystalline ZrO <sub>2</sub> thin films as electrode materials using in high temperature-pressure chemical sensors. <i>Materials Letters</i> , 2006, 60, 3170-3174.	1.3	19
614	Enhanced photoelectrochemical current response of titania nanotube array. <i>Materials Letters</i> , 2006, 60, 3558-3560.	1.3	27
615	A Direct Electrochemical Route from Ilmenite to Hydrogen-Storage Ferrotitanium Alloys. <i>Chemistry - A European Journal</i> , 2006, 12, 5075-5081.	1.7	66
616	Near Monodisperse TiO <sub>2</sub> Nanoparticles and Nanorods. <i>Chemistry - A European Journal</i> , 2006, 12, 2383-2391.	1.7	169
617	High-Yield Generation of a Long-Lived Charge-Separated State in Diphenylacetylene-Modified DNA. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 120-122.	7.2	29
618	Optimizing Dyes for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2338-2345.	7.2	886
619	Controlled Self-Assembly Behavior of an Amphiphilic Bisporphyrin-Bipyridinium-Palladium Complex: From Multilayer Vesicles to Hollow Capsules. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3639-3643.	7.2	106

#	ARTICLE	IF	CITATIONS
620	Block Copolymer Assemblies as Templates for the Generation of Mesoporous Inorganic Materials and Crystalline Films. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1111-1119.	1.0	123
621	Ligand Variations in [ReX(diimine)(CO) <sub>3</sub> ] Complexes: Effects on Photocatalytic CO <sub>2</sub> Reduction. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 2966-2974.	1.0	233
622	Vapor-Surface Sol-Gel Deposition of Titania Alternated with Protein Adsorption for Assembly of Electroactive, Enzyme-Active Films. <i>Electroanalysis</i> , 2006, 18, 379-390.	1.5	63
623	Ionic Liquid Based Electrolyte with Mesoporous Silica SBA-15 as Framework for Quasi-solid-state Dye-sensitized Solar Cells. <i>Chinese Journal of Chemistry</i> , 2006, 24, 1737-1740.	2.6	7
624	Photoinduced Energy- and Electron-Transfer Processes in Dinuclear RuII-OsII, RuII-OsIII, and RuIII-OsII Trisbipyridine Complexes Containing a Shape-Persistent Macrocyclic Spacer. <i>ChemPhysChem</i> , 2006, 7, 229-239.	1.0	22
625	Synthesis of Porous Polyurea with Room-Temperature Ionic Liquids via Interfacial Polymerization. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1306-1311.	2.0	33
626	Formation of Nanostructured Titania: Effect of Thickness on Oxidation Kinetics of Titanium Thin Films in Aqueous Hydrogen Peroxide. <i>Advanced Engineering Materials</i> , 2006, 8, 77-80.	1.6	8
630	Room-Temperature Synthesis of Porous Nanoparticulate TiO <sub>2</sub> Films for Flexible Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2006, 16, 1228-1234.	7.8	236
631	Mirror-Like Photoconductive Layer-by-Layer Thin Films of Te Nanowires: The Fusion of Semiconductor, Metal, and Insulator Properties. <i>Advanced Materials</i> , 2006, 18, 518-522.	11.1	113
632	High-Efficiency Organic-Dye-Sensitized Solar Cells Controlled by Nanocrystalline-TiO <sub>2</sub> Electrode Thickness. <i>Advanced Materials</i> , 2006, 18, 1202-1205.	11.1	997
633	Efficient Light-Harvesting Layers of Homeotropically Aligned Porphyrin Derivatives. <i>Advanced Materials</i> , 2006, 18, 2234-2239.	11.1	45
634	Separation of Nanoparticles by Gravitational Sedimentation. , 2006, , 85.		0
635	Preparation of SnO <sub>2</sub> Nanocrystallines-incorporated Large Mesoporous Silica Materials in a Self-generated Acidic Environment. <i>Studies in Surface Science and Catalysis</i> , 2006, , 369-376.	1.5	3
636	Silica nanocasting of lyotropic surfactant phases and organized organic matter: material science or an analytical tool?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 2817-2840.	1.6	25
637	Solar textiles: production and distribution of electricity coming from solar radiation applications. , 2006, , 206-216.		4
638	Direct observation of suppressed recombination of electron-hole pairs in the TiO <sub>2</sub> nanopowders with anatase-rutile interface: in-situ NEXAFS study under UV irradiation. , 2006, , .		1
639	Focused ion beam milling of nanocavities in single colloidal particles and self-assembled opals. <i>Nanotechnology</i> , 2006, 17, 5717-5721.	1.3	21
640	Synthesis of Titania Nanocrystals: Application for Dye-Sensitized Solar Cells. , 2006, , 71-100.		1

#	ARTICLE	IF	CITATIONS
641	Effect of Composition on the Photoelectrochemical Behavior of Anodic Oxides on Binary Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2006, 153, B518.	1.3	24
642	Influence of adsorbed oxygen on the surface photovoltage and photoluminescence of ZnO nanorods. <i>Nanotechnology</i> , 2006, 17, 2110-2115.	1.3	54
643	Solid-State Dye-Sensitized Solar Cells Using Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylene-vinylene] as a Hole-Transporting Material. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8728-8732.	0.8	12
644	Effects of aging conditions on the structural properties of mesoporous SiO <sub>2</sub> /TiO <sub>2</sub> composite materials with crystallized framework. <i>Journal of Materials Research</i> , 2006, 21, 380-385.	1.2	7
645	Nanocrystalline TiO <sub>2</sub> for Solar Cells and Lithium Batteries. <i>Advances in Science and Technology</i> , 2006, 51, 20.	0.2	7
646	Nanostructured ETA-Solar Cells. , 2006, , 447-484.		7
647	Optical and Electrical Modeling of Nanocrystalline Solar Cells. , 2006, , 81-104.		3
648	Efficient Sensitization of Mesoporous Electrodeposited Zinc Oxide by cis-Bis(isothiocyanato)bis(2,2[ <sup>É</sup> ]-bipyridyl-4,4[ <sup>É</sup> ]-dicarboxylato)-Ruthenium(II). <i>Journal of the Electrochemical Society</i> , 2006, 153, A699.	1.3	17
649	Semiconductor Oxides as Electron Acceptors in Hybrid Organic-Inorganic Solar Cells. <i>ECS Transactions</i> , 2006, 3, 1-9.	0.3	3
650	On the origin of increased open circuit voltage of dye-sensitized solar cells using 4-tert-butyl pyridine as additive to the electrolyte. <i>Applied Physics Letters</i> , 2006, 89, 061110.	1.5	93
651	Control of Defect Concentrations within a Semiconductor through Adsorption. <i>Physical Review Letters</i> , 2006, 97, 055503.	2.9	44
653	Dye sensitized solar cells using well-aligned zinc oxide nanotip arrays. <i>Applied Physics Letters</i> , 2006, 89, 253513.	1.5	157
654	Charge and Energy Transfer in the Metal-free Indoline Dyes for Dye-sensitized Solar Cells. <i>Chinese Journal of Chemical Physics</i> , 2006, 19, 238-242.	0.6	5
655	Photoleakage currents in organic thin-film transistors. <i>Applied Physics Letters</i> , 2006, 88, 071106.	1.5	21
656	N doping of TiO <sub>2</sub> (110): Photoemission and density-functional studies. <i>Journal of Chemical Physics</i> , 2006, 125, 094706.	1.2	127
657	Probing the ultrafast electron transfer at the CuPc•Au(111) interface. <i>Applied Physics Letters</i> , 2006, 88, 184102.	1.5	50
658	Switching Control of Spontaneous Emission by Polarized Atoms in Two-Dimensional Photonic Crystals. <i>Physical Review Letters</i> , 2006, 96, 103601.	2.9	27
659	Temperature dependent normal and anomalous electron diffusion in porousTiO <sub>2</sub> studied by transient surface photovoltage. <i>Physical Review B</i> , 2006, 73, .	1.1	53

#	ARTICLE	IF	CITATIONS
660	Modulating electron dynamics: Modified spin-boson approach. <i>Physical Review B</i> , 2006, 73, .	1.1	7
661	Dye-Sensitized Solar Cells with P3HT/Fullerene Derivatives. , 2006, , .		3
662	Optical Absorption, Photoelectrochemical, and Ultrafast Carrier Dynamic Investigations of TiO <sub>2</sub> Electrodes Composed of Nanotubes and Nanowires Sensitized with CdSe Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 5569-5574.	0.8	51
663	Steady-State Operation of Porous Photoelectrochemical Cells Under the Conditions of Mixed Diffusional and Migrational Mass Transport. <i>Journal of the Electrochemical Society</i> , 2006, 153, A2326.	1.3	10
664	Nanostructures in photovoltaics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 3493-3503.	1.6	27
665	Broadband Photon-harvesting Biomolecules for Photovoltaics. , 2006, , 35-65.		3
666	One-step aerosol synthesis of nanoparticle agglomerate films: simulation of film porosity and thickness. <i>Nanotechnology</i> , 2006, 17, 4783-4795.	1.3	121
667	Modification of photocathode of dye-sensitized nanocrystalline solar cell with platinum by vacuum coating, thermal decomposition and electroplating. <i>Composite Interfaces</i> , 2006, 13, 899-909.	1.3	24
668	Ti <sup>+</sup> Au Ohmic Contacts to Al-Doped n-ZnO Grown by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2006, 153, G462.	1.3	10
670	Production of Nanocrystalline TiO <sub>2</sub> Powder by a Microwave Plasma-Torch and Its Characterization. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6027-6031.	0.8	8
671	INFLUENCE OF GRAIN SIZE OF ZnO NANOCRYSTALLINE FILMS FOR APPLICATION IN DYE-SENSITIZED SOLAR CELLS. <i>International Journal of Modern Physics B</i> , 2007, 21, 3448-3454.	1.0	4
672	Integrated Spin <sup>+</sup> on Barrier Layers a Reasonable Idea?. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007, 37, 315-320.	0.6	5
673	A Novel Chloroplastmimic Photovoltaics With Full Visible Spectrum Operation. , 2007, , 683.		0
674	New development of photoinduced electron-transfer catalytic systems. <i>Pure and Applied Chemistry</i> , 2007, 79, 981-991.	0.9	83
675	Nanowires for solar energy and hydrogen production. , 2007, , .		0
676	Exciton escape in CdSe core-shell quantum dots: Implications for the development of nanocrystal solar cells. <i>Physical Review B</i> , 2007, 76, .	1.1	13
677	Structural, magnetic, and electronic properties of the Co-Fe-Al oxide spinel system: Density-functional theory calculations. <i>Physical Review B</i> , 2007, 76, .	1.1	168
678	Origin of the open circuit voltage of donor-acceptor solar cells: Do polaronic energy levels play a role?. <i>Applied Physics Letters</i> , 2007, 91, 243502.	1.5	50

#	ARTICLE	IF	CITATIONS
679	Layer-by-layer assembly of capped CdSe nanoparticles: Electrical bistability and memory phenomenon. Applied Physics Letters, 2007, 91, .	1.5	31
680	Nonexponential decay of spontaneous emission from an ensemble of molecules in photonic crystals. Physical Review B, 2007, 76, .	1.1	36
681	Anomalous thickness and dopant effects on photochemical deposition of Ag on epitaxial TiO <sub>2</sub> (110)•Nb:TiO <sub>2</sub> (110) heterostructures. Applied Physics Letters, 2007, 91, 061928.	1.5	8
682	Electron diffusion in polymer:fullerene bulk heterojunctions. Physical Review B, 2007, 75, .	1.1	12
683	Direct measurement of increased light intensity in optical waveguides coupled to a surface plasmon spectroscopy setup. Applied Physics Letters, 2007, 91, 021113.	1.5	12
684	Correlated electron-nuclear dynamics in ultrafast photoinduced electron-transfer reactions at dye-semiconductor interfaces. Physical Review B, 2007, 76, .	1.1	40
685	Photoassisted spatially resolved STM measurements of dye-sensitized nanocrystallineTiO <sub>2</sub> films. Physical Review B, 2007, 75, .	1.1	2
686	Photovoltaic and photoelectrochemical conversion of solar energy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 993-1005.	1.6	192
687	Microcavity enhanced spontaneous emission from silicon nanocrystals. Journal of Applied Physics, 2007, 101, 073108.	1.1	14
688	Band gap narrowing of ZnO:N films by varying rf sputtering power in O[sub 2]•N[sub 2] mixtures. Journal of Vacuum Science & Technology B, 2007, 25, L23.	1.3	30
689	Chapter 12 Nano-particulate photocatalysts for overall water splitting under visible light. Theoretical and Computational Chemistry, 2007, 18, 301-315.	0.2	8
690	The Electrochemical Behavior of Trialkylimidazolium Imide Based Ionic Liquids and Their Polymer Gel Electrolytes. Journal of the Electrochemical Society, 2007, 154, P130.	1.3	41
692	Preparation of TiO <sub>2</sub> •SiO <sub>2</sub> Hybrid Hardcoatings on Stainless Steel and its Photocatalytic Effect. Materials Science Forum, 2007, 544-545, 127-130.	0.3	0
693	Porous Films from TiO <sub>2</sub> (Anatase) with Bimodal Morphology. Electrochemical and Solid-State Letters, 2007, 10, A85.	2.2	12
694	Solid State Electrochemistry II: Devices and Techniques. Modern Aspects of Electrochemistry, 2007, , 1-138.	0.2	11
695	Photoconducting Discotic Liquid Crystals. , 2007, , 297-322.		5
696	Theoretical Investigation of the Photophysical Properties of Black Dye Sensitizer [(H <sub>3</sub> -tctpy)M(NCS) <sub>3</sub> ]- (M = Fe, Ru, Os) in Dye Sensitized Solar Cells. Japanese Journal of Applied Physics, 2007, 46, 2655-2660.	0.8	11
697	Detrimental Effect of Inert Atmospheres on Hybrid Solar Cells Based on Semiconductor Oxides. Journal of the Electrochemical Society, 2007, 154, B508.	1.3	63

#	ARTICLE	IF	CITATIONS
698	Density functional theory and multireference configuration interaction studies on low-lying excited states of TiO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2007, 126, 034313.	1.2	42
699	A Novel Ruthenium-Quinonoid Complex. Structural, Spectroscopic, and Electrochemical Characterization of Ruthenium(II) Bis(2,2'-bipyridine) Chloranilate. <i>Chemistry Letters</i> , 2007, 36, 1116-1117.	0.7	6
700	Role of Iron Ion Electron Mediator on Photocatalytic Overall Water Splitting under Visible Light Irradiation Using Z-Scheme Systems. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 2457-2464.	2.0	130
701	Morphology-controlled TiO <sub>2</sub> Nanoparticle Synthesis via Aerosol-assisted Vapor-phase Reactions. <i>Chemistry Letters</i> , 2007, 36, 80-81.	0.7	2
703	Ultrafast excitation dynamics in organic multicromophoric systems after two-photon excitation. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
704	New bio-inorganic photo-electronic devices based on photosynthetic proteins. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
705	Front Matter: Volume 6649. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
706	Front Matter: Volume 6651. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
707	Front Matter: Volume 6652. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
708	AgX Photography: Present and Future. <i>Journal of Imaging Science and Technology</i> , 2007, 51, 110.	0.3	8
709	Application of Microwave Superheating for the Synthesis of TiO <sub>2</sub> Rods. <i>Langmuir</i> , 2007, 23, 11211-11216.	1.6	58
710	Theoretical Study of Stable, Defect-Free (TiO <sub>2</sub> ) <sub>n</sub> Nanoparticles with $n = 10 \sim 16$ . <i>Journal of Physical Chemistry C</i> , 2007, 111, 16808-16817.	1.5	115
711	A highly efficient organic sensitizer for dye-sensitized solar cells. <i>Chemical Communications</i> , 2007, , 4887.	2.2	417
712	Schottky contact on a ZnO (0001) single crystal with conducting polymer. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	118
713	Polymer Solar Cells. , 2007, , 1-86.		37
714	Influence of TiCl <sub>4</sub> Treatment on Surface Defect Photoluminescence in Pure and Mixed-Phase Nanocrystalline TiO <sub>2</sub> . <i>Langmuir</i> , 2007, 23, 8686-8690.	1.6	122
715	Modification of electronic, optical, and magnetic properties of titanate nanotubes by metal intercalation. <i>Physical Review B</i> , 2007, 75, .	1.1	33
716	Giant enhancement of band edge emission based on ZnO/TiO <sub>2</sub> nanocomposites. <i>Optics Express</i> , 2007, 15, 13832.	1.7	65

#	ARTICLE	IF	CITATIONS
717	Internal Structure of Nanoporous TiO <sub>2</sub> /Polyion Thin Films Prepared by Layer-by-Layer Deposition. <i>Langmuir</i> , 2007, 23, 9860-9865.	1.6	20
718	Organic solar cells. Supramolecular composites of porphyrins and fullerenes organized by polypeptide structures as light harvesters. <i>Journal of Materials Chemistry</i> , 2007, 17, 4160.	6.7	153
719	Green synthesis of silver nanoparticles using <i>Capsicum annum</i> L. extract. <i>Green Chemistry</i> , 2007, 9, 852.	4.6	844
720	TiO <sub>2</sub> nanotubes: Self-organized electrochemical formation, properties and applications. <i>Current Opinion in Solid State and Materials Science</i> , 2007, 11, 3-18.	5.6	1,218
721	Solar hydrogen production by tandem cell system composed of metal oxide semiconductor film photoelectrode and dye-sensitized solar cell. <i>Proceedings of SPIE</i> , 2007, , .	0.8	11
722	Combustion synthesis and photocatalytic properties of transition metal-incorporated ZnO. <i>Journal of Alloys and Compounds</i> , 2007, 433, 237-240.	2.8	121
723	In Situ Fenton Reagent Generated from TiO <sub>2</sub> /Cu <sub>2</sub> O Composite Film: a New Way to Utilize TiO <sub>2</sub> under Visible Light Irradiation. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6264-6269.	4.6	227
724	Facile Route to Zn-Based II <sup>VI</sup> Semiconductor Spheres, Hollow Spheres, and Core/Shell Nanocrystals and Their Optical Properties. <i>Langmuir</i> , 2007, 23, 10286-10293.	1.6	100
725	Polymer-Nanoparticle Composites: Preparative Methods and Electronically Active Materials. <i>Polymer Reviews</i> , 2007, 47, 155-163.	5.3	48
726	Simultaneous Measurement of Orientational and Spectral Dynamics of Single Molecules in Nanostructured Host-Guest Materials. <i>Journal of the American Chemical Society</i> , 2007, 129, 5570-5579.	6.6	53
727	Effects of 5-Membered Heteroaromatic Spacers on Structures of Porphyrin Films and Photovoltaic Properties of Porphyrin-Sensitized TiO <sub>2</sub> Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3528-3537.	1.5	131
728	Nanostructured metal oxide/conjugated polymer hybrid solar cells by low temperature solution processes. <i>Journal of Materials Chemistry</i> , 2007, 17, 4571.	6.7	103
729	Synthesis of band-gap-reduced p-type ZnO films by Cu incorporation. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	114
730	Quantum Coaxial Cables for Solar Energy Harvesting. <i>Nano Letters</i> , 2007, 7, 1264-1269.	4.5	168
731	Transition Metal Complexes for Photovoltaic and Light Emitting Applications. <i>Structure and Bonding</i> , 2007, , 113-175.	1.0	130
732	Plasma-aided nanofabrication: where is the cutting edge?. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2223-2241.	1.3	236
733	Vertically Oriented Ti-Fe-O Nanotube Array Films: Toward a Useful Material Architecture for Solar Spectrum Water Photoelectrolysis. <i>Nano Letters</i> , 2007, 7, 2356-2364.	4.5	377
734	Growing TiO <sub>2</sub> -Based Pillars by Chemisorbed Nanotitania Followed by Annealing. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14574-14578.	1.5	7



#	ARTICLE	IF	CITATIONS
735	Solid-State, Planar Photoelectrocatalytic Devices Using a Nanosized TiO <sub>2</sub> Layer. <i>Environmental Science &amp; Technology</i> , 2007, 41, 7876-7880.	4.6	34
736	Preparation of a Nanoporous CaCO <sub>3</sub> -Coated TiO <sub>2</sub> Electrode and Its Application to a Dye-Sensitized Solar Cell. <i>Langmuir</i> , 2007, 23, 11907-11910.	1.6	58
737	Enhanced photocurrent-voltage characteristics of WO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> nano-electrodes. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1091-1096.	1.3	68
738	Control of TiO <sub>2</sub> Structures from Robust Hollow Microspheres to Highly Dispersible Nanoparticles in a Tetrabutylammonium Hydroxide Solution. <i>Langmuir</i> , 2007, 23, 9567-9571.	1.6	52
739	Nanotechnology's Implications for Select Systems of Renewable Energy. <i>International Journal of Green Energy</i> , 2007, 4, 483-503.	2.1	10
740	Synthesis and Characterization of a Ruthenium(II) Complex for Photovoltaic Cells. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 1255-1260.	1.2	3
741	Novel surface-enhanced Raman scattering-active silver substrates containing visible light-responsive TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry</i> , 2007, 17, 2120.	6.7	11
742	Strongly nonexponential time-resolved fluorescence of quantum-dot ensembles in three-dimensional photonic crystals. <i>Physical Review B</i> , 2007, 75, .	1.1	86
743	Dependence of the photoelectrochemical performance of sensitised ZnO on the crystalline orientation in electrodeposited ZnO thin films. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1843.	1.3	18
744	Hydrogen energy in Indian context and R&D efforts at Banaras Hindu University. <i>International Journal of Environmental Studies</i> , 2007, 64, 761-776.	0.7	9
745	A dye-sensitized solar cell driven electrochromic device. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 63-66.	1.6	20
746	Theme issue: new energy materials. <i>Journal of Materials Chemistry</i> , 2007, 17, 3069.	6.7	2
747	Elucidation of homojunction formation in CuInS <sub>2</sub> with impedance spectroscopy. <i>Journal of Applied Physics</i> , 2007, 102, 024512.	1.1	17
748	Interfacial Electron Transfer in Metal Cyanide-Sensitized TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6695-6702.	1.2	35
749	Positive and Negative TiO <sub>2</sub> Micropatterns on Organic Polymer Substrates. <i>Journal of the American Chemical Society</i> , 2007, 129, 1541-1552.	6.6	68
750	Current State of Nanostructured TiO <sub>2</sub> -based Catalysts: Preparation Methods. , 2007, , 207-229.		3
751	Phase transformation and nanograting structure on TiO <sub>2</sub> rutile single crystal induced by infrared femtosecond laser. <i>Chinese Physics B</i> , 2007, 16, 3328-3331.	1.3	3
752	Charge-Transfer Dynamics at Model Metal-Organic Solar Cell Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16646-16655.	1.5	28

#	ARTICLE	IF	CITATIONS
753	An Integrated Zeolite Membrane/RuO <sub>2</sub> Photocatalyst System for Hydrogen Production from Water. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10575-10581.	1.5	13
754	Electrolytes for Dye-Sensitized Solar Cells Based on Interhalogen Ionic Salts and Liquids. <i>Inorganic Chemistry</i> , 2007, 46, 3566-3575.	1.9	73
755	Bulk Diffusion of Niobium in Single-Crystal Titanium Dioxide. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8126-8130.	1.2	24
756	On the Convergence of the Physicochemical Properties of [n]Helicenes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14948-14955.	1.5	79
757	Effects of Dye Loading Conditions on the Energy Conversion Efficiency of ZnO and TiO <sub>2</sub> Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18804-18811.	1.5	232
758	Mesoporous Anatase TiO <sub>2</sub> Films: Use of Ti K XANES for the Quantification of the Nanocrystalline Character and Substrate Effects in the Photocatalysis Behavior. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10886-10893.	1.5	130
759	Photosensitization of TiO <sub>2</sub> and SnO <sub>2</sub> by Artificial Self-Assembling Mimics of the Natural Chlorosomal Bacteriochlorophylls. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11726-11733.	1.5	57
760	Conduction Band Mediated Electron Transfer Across Nanocrystalline TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6822-6828.	1.2	31
761	Effects of Guanidinoalkyl Acids as Coadsorbents in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 398-403.	1.5	109
762	Comparing Electrochemical and Biological Water Splitting. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18821-18823.	1.5	100
763	Photodecomposition of Pentacene Films on Atomically Controlled SrTiO <sub>3</sub> (001) Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10523-10527.	1.5	11
764	Organic Dyes Containing 1-Phenanthro[9,10-d]imidazole Conjugation for Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18785-18793.	1.5	140
765	Control of particle size and phase formation of TiO <sub>2</sub> nanoparticles synthesized in RF induction plasma. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2348-2353.	1.3	77
766	Adsorption Configurations and Energetics of BCl <sub>x</sub> (x = 0-3) on TiO <sub>2</sub> Anatase (101) and Rutile (110) Surfaces. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6746-6754.	1.1	23
767	On the Influence of Anions in Binary Ionic Liquid Electrolytes for Monolithic Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13261-13266.	1.5	54
768	Synthesis and Photovoltaic Properties of Efficient Organic Dyes Containing the Benzo[b]furan Moiety for Solar Cells. <i>Journal of Organic Chemistry</i> , 2007, 72, 3652-3658.	1.7	133
769	Ultrafast Dynamics of Room Temperature Ionic Liquids after Ultraviolet Femtosecond Excitation. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4830-4836.	1.2	20
770	Improved Photocurrent in Ru(2,2'-bipyridine-4,4'-dicarboxylic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 72 Td (acid) <sub>2</sub> (NCS) <sub>2</sub> /Journal of Physical Chemistry C, 2007, 111, 9110-9115.	1.5	45

#	ARTICLE	IF	CITATIONS
771	Effect of pH on the Viscosity of Titanium Dioxide Aqueous Dispersions with Carboxylic Acids. Journal of Physical Chemistry A, 2007, 111, 8139-8146.	1.1	30
772	Research on the Effect of Different Sizes of ZnO Nanorods on the Efficiency of TiO <sub>2</sub> -Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 18417-18422.	1.5	79
773	Optimizing the Photocatalytic Properties of Hydrothermal TiO <sub>2</sub> by the Control of Phase Composition and Particle Morphology. A Systematic Approach. Journal of the American Chemical Society, 2007, 129, 3564-3575.	6.6	416
774	New Triphenylamine-Based Organic Dyes for Efficient Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 4465-4472.	1.5	366
775	Quantum Dynamics of Photoinduced Electron-Transfer Reactions in Dye-Semiconductor Systems: First-Principles Description and Application to Coumarin 343-TiO <sub>2</sub> . Journal of Physical Chemistry C, 2007, 111, 11970-11981.	1.5	157
776	Meeting the Clean Energy Demand: Nanostructure Architectures for Solar Energy Conversion. Journal of Physical Chemistry C, 2007, 111, 2834-2860.	1.5	2,094
777	Synthesis of High-Temperature Stable Anatase TiO <sub>2</sub> Photocatalyst. Journal of Physical Chemistry C, 2007, 111, 1605-1611.	1.5	271
778	Structure in Confined Room-Temperature Ionic Liquids. Journal of Physical Chemistry C, 2007, 111, 5162-5168.	1.5	456
779	Influence of the Sensitizer Adsorption Mode on the Open-Circuit Potential of Dye-Sensitized Solar Cells. Nano Letters, 2007, 7, 3189-3195.	4.5	340
780	Potential Applications of Carbon Nanotubes. Topics in Applied Physics, 2007, , 13-62.	0.4	307
781	Effect of Tetrahydroquinoline Dyes Structure on the Performance of Organic Dye-Sensitized Solar Cells. Chemistry of Materials, 2007, 19, 4007-4015.	3.2	302
782	Semiconductor and ceramic nanoparticle films deposited by chemical bath deposition. Physical Chemistry Chemical Physics, 2007, 9, 2181.	1.3	228
783	Recent progress and applications for metallodendrimers. New Journal of Chemistry, 2007, 31, 1192.	1.4	200
784	Dye-sensitized nanocrystalline solar cells. Physical Chemistry Chemical Physics, 2007, 9, 2630.	1.3	345
785	Electron transport and recombination in polycrystalline TiO <sub>2</sub> nanowire dye-sensitized solar cells. Applied Physics Letters, 2007, 91, 123116.	1.5	112
786	Improved dye-sensitized solar cells with a ZnO-nanoflower photoanode. Applied Physics Letters, 2007, 90, 263501.	1.5	502
787	Evidence for O <sub>2</sub> -Radical Stabilization at Surface Oxygen Vacancies on Polycrystalline TiO <sub>2</sub> . Journal of Physical Chemistry C, 2007, 111, 10630-10638.	1.5	204
788	The Electronic Role of the TiO <sub>2</sub> Light-Scattering Layer in Dye-Sensitized Solar Cells. Zeitschrift Fur Physikalische Chemie, 2007, 221, 319-327.	1.4	48

#	ARTICLE	IF	CITATIONS
789	Electrochemical Lithium Storage of Titanate and Titania Nanotubes and Nanorods. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6143-6148.	1.5	198
790	Time-Dependent Density Functional Theory Investigations on the Excited States of Ru(II)-Dye-Sensitized TiO <sub>2</sub> Nanoparticles: The Role of Sensitizer Protonation. <i>Journal of the American Chemical Society</i> , 2007, 129, 14156-14157.	6.6	228
791	Examination of Tethered Porphyrin, Chlorin, and Bacteriochlorin Molecules in Mesoporous Metal-Oxide Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15464-15478.	1.5	98
792	Facile Cd <sup>2+</sup> -Thiourea Complex Thermolysis Synthesis of Phase-Controlled CdS Nanocrystals for Photocatalytic Hydrogen Production under Visible Light. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17527-17534.	1.5	245
793	Nanocarbon counterelectrode for dye sensitized solar cells. <i>Applied Physics Letters</i> , 2007, 90, 173103.	1.5	203
794	Tetrachelate Porphyrin Chromophores for Metal Oxide Semiconductor Sensitization: Effect of the Spacer Length and Anchoring Group Position. <i>Journal of the American Chemical Society</i> , 2007, 129, 4655-4665.	6.6	367
795	Titania Particle Size Effect on the Overall Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6296-6302.	1.5	172
796	Review of Recent Progress in Dye-Sensitized Solar Cells. <i>Advances in OptoElectronics</i> , 2007, 2007, 1-13.	0.6	124
797	Three-Phase Interlines Electrochemically Driven into Insulator Compounds: A Penetration Model and Its Verification by Electroreduction of Solid AgCl. <i>Chemistry - A European Journal</i> , 2007, 13, 604-612.	1.7	82
798	Visible Light Induced Catalytic Water Reduction without an Electron Relay. <i>Chemistry - A European Journal</i> , 2007, 13, 8726-8732.	1.7	204
799	Synthesis and characterization of core-shell SiO <sub>2</sub> nanoparticles/poly(3-aminophenylboronic acid) composites. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2743-2750.	1.3	306
800	Relationship between Charge Transfer and Charge Recombination Determines Photocurrent Efficiency through DNA Films. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6681-6683.	7.2	35
801	A Titanium Disilicide Derived Semiconducting Catalyst for Water Splitting under Solar Radiation Reversible Storage of Oxygen and Hydrogen. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7770-7774.	7.2	128
805	Functional Supramolecular Ruthenium Cyclodextrin Dyes for Nanocrystalline Solar Cells. <i>Advanced Functional Materials</i> , 2007, 17, 54-58.	7.8	29
806	High Molar Extinction Coefficient Ion-Coordinating Ruthenium Sensitizer for Efficient and Stable Mesoscopic Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2007, 17, 154-160.	7.8	147
807	A Thermoplastic Gel Electrolyte for Stable Quasi-Solid State Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2007, 17, 2645-2652.	7.8	210
808	Nanostructured Titanium Oxynitride Porous Thin Films as Efficient Visible-Active Photocatalysts. <i>Advanced Functional Materials</i> , 2007, 17, 3348-3354.	7.8	166
809	Device Physics of Polymer:Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Materials</i> , 2007, 19, 1551-1566.	11.1	2,000

#	ARTICLE	IF	CITATIONS
810	A Multilayered Polymer Light-Emitting Diode Using a Nanocrystalline Metal-Oxide Film as a Charge-Injection Electrode. <i>Advanced Materials</i> , 2007, 19, 683-687.	11.1	125
811	High-Efficiency and Stable Mesoscopic Dye-Sensitized Solar Cells Based on a High Molar Extinction Coefficient Ruthenium Sensitizer and Nonvolatile Electrolyte. <i>Advanced Materials</i> , 2007, 19, 1133-1137.	11.1	332
812	Single-Molecule Traffic in Mesoporous Materials: Translational, Orientational, and Spectral Dynamics. <i>Advanced Materials</i> , 2007, 19, 956-960.	11.1	36
813	A Novel Thermosetting Gel Electrolyte for Stable Quasi-Solid-State Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2007, 19, 4006-4011.	11.1	275
814	Hierarchically Structured ZnO Film for Dye-Sensitized Solar Cells with Enhanced Energy Conversion Efficiency. <i>Advanced Materials</i> , 2007, 19, 2588-2592.	11.1	510
815	Sol-Gel Inks for Direct-Write Assembly of Functional Oxides. <i>Advanced Materials</i> , 2007, 19, 3485-3489.	11.1	185
816	Metallopolymers: New Multifunctional Materials. <i>Advanced Materials</i> , 2007, 19, 3439-3468.	11.1	495
817	Nanostructured photoactive films synthesized by a flame aerosol reactor. <i>AIChE Journal</i> , 2007, 53, 1727-1735.	1.8	74
818	Theoretical Studies of the Electronic Structure and Spectroscopic Properties of $[\text{Ru}(\text{Htcterpy})(\text{NCS})_3]^{3+}$ . <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2171-2180.	1.0	17
819	Capacitive Sensing of Amino Acids Using Calixarene-Coated Silicon Transducers. <i>Electroanalysis</i> , 2007, 19, 510-514.	1.5	11
820	Stepwise Formation of Ruthenium(II) Complexes by Direct Reaction on Organized Assemblies of Thiol-Terpyridine Species on Gold. <i>ChemPhysChem</i> , 2007, 8, 227-230.	1.0	52
821	A Thermostable and Long-Term-Stable Ionic-Liquid-Based Gel Electrolyte for Efficient Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2007, 8, 1293-1297.	1.0	57
822	A Dyadic Sensitizer for Dye Solar Cells with High Energy-Transfer Efficiency in the Device. <i>ChemPhysChem</i> , 2007, 8, 1548-1556.	1.0	73
823	Influence of the preparation conditions of TiO <sub>2</sub> electrodes on the performance of solid-state dye-sensitized solar cells with CuI as a hole collector. <i>Solar Energy</i> , 2007, 81, 717-722.	2.9	35
824	Optical simulation of transmittance into a nanocrystalline anatase TiO <sub>2</sub> film for solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 201-206.	3.0	40
825	Vertically aligned ZnO nanowire arrays in Rose Bengal-based dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 769-773.	3.0	173
826	Investigation of PEO-imidazole ionic liquid oligomer electrolytes for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 785-790.	3.0	82
827	Low-temperature synthesis of TiO <sub>2</sub> nanoparticles and preparation of TiO <sub>2</sub> thin films by spray deposition. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1075-1080.	3.0	76

#	ARTICLE	IF	CITATIONS
828	Electrical and photovoltaic properties of devices based on PbPcâ€“TiO <sub>2</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1087-1096.	3.0	18
829	Unsymmetrical alkoxy zinc phthalocyanine for sensitization of nanocrystalline TiO <sub>2</sub> films. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1611-1617.	3.0	128
830	AM1 molecular screening of novel porphyrin analogues as dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1775-1781.	3.0	61
831	Microstructured extremely thin absorber solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1755-1762.	3.0	22
832	Anthraquinone dyes as photosensitizers for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1863-1871.	3.0	57
833	Nanocomposite gel electrolyte with large enhanced charge transport properties of an I <sup>3</sup> âˆ“/Iâˆ“ redox couple for quasi-solid-state dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1959-1965.	3.0	132
834	Phase transformation and particle growth in nanocrystalline anatase TiO <sub>2</sub> films analyzed by X-ray diffraction and Raman spectroscopy. <i>Surface Science</i> , 2007, 601, 4390-4394.	0.8	109
835	Molecular engineering of organic dyes containing N-aryl carbazole moiety for solar cell. <i>Tetrahedron</i> , 2007, 63, 1913-1922.	1.0	202
836	Novel organic dyes containing bis-dimethylfluorenyl amino benzo[b]thiophene for highly efficient dye-sensitized solar cell. <i>Tetrahedron</i> , 2007, 63, 3115-3121.	1.0	152
837	Novel conjugated organic dyes containing bis-dimethylfluorenyl amino phenyl thiophene for efficient solar cell. <i>Tetrahedron</i> , 2007, 63, 9206-9212.	1.0	93
838	Fabrication of TiO <sub>2</sub> nanotube film by well-aligned ZnO nanorod array film and solâ€“gel process. <i>Thin Solid Films</i> , 2007, 515, 2897-2902.	0.8	57
839	Preparation and characterization of low platinum loaded Pt:SnO <sub>2</sub> electrocatalytic films for screen printed dye solar cell counter electrode. <i>Thin Solid Films</i> , 2007, 515, 4074-4079.	0.8	27
840	Photoelectrochemical properties of thin Bi <sub>2</sub> WO <sub>6</sub> films. <i>Thin Solid Films</i> , 2007, 515, 4753-4757.	0.8	34
841	Photosensitization of nanocrystalline TiO <sub>2</sub> film electrode with cadmium sulphoselenide. <i>Applied Surface Science</i> , 2007, 253, 3922-3926.	3.1	22
842	Distributed decay kinetics of charge separated state in solid film. <i>Chemical Physics Letters</i> , 2007, 437, 238-242.	1.2	22
843	DFT characterization of the optical and redox properties of natural pigments relevant to dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2007, 438, 26-30.	1.2	147
844	The fabrication and characterization of dye-sensitized solar cells with a branched structure of ZnO nanowires. <i>Chemical Physics Letters</i> , 2007, 442, 348-353.	1.2	129
845	Synthesis and characterization of visible-light absorbing ordered mesoporous titanosilicate incorporated with vanadium oxide. <i>Chemical Physics Letters</i> , 2007, 444, 161-166.	1.2	8

#	ARTICLE	IF	CITATIONS
846	Multi-type carbon doping of TiO <sub>2</sub> photocatalyst. <i>Chemical Physics Letters</i> , 2007, 444, 292-296.	1.2	121
847	Current transport mechanism and photovoltaic properties of photoelectrochemical cells of ITO/TiO <sub>2</sub> /PVCa€“LiClO <sub>4</sub> /graphite. <i>Current Applied Physics</i> , 2007, 7, 446-449.	1.1	17
848	Semiconducting properties of self-organized TiO <sub>2</sub> nanotubes. <i>Electrochimica Acta</i> , 2007, 52, 4167-4176.	2.6	141
849	A polyblend electrolyte (PVP/PEG+KI+I <sub>2</sub> ) for dye-sensitized nanocrystalline TiO <sub>2</sub> solar cells. <i>Electrochimica Acta</i> , 2007, 52, 5334-5338.	2.6	81
850	Photoactive titania nanostructured thin films: Synthesis and characteristics of ordered helical nanocoil array. <i>Catalysis Today</i> , 2007, 122, 3-13.	2.2	45
851	Modeling of charge-transfer transitions and excited states in d <sub>6</sub> transition metal complexes by DFT techniques. <i>Coordination Chemistry Reviews</i> , 2007, 251, 258-287.	9.5	419
852	Interaction of photoactive catechol with TiO <sub>2</sub> anatase (101) surface: A periodic density functional theory study. <i>Chemical Physics</i> , 2007, 331, 275-282.	0.9	71
853	TiO <sub>2</sub> nanopowders doped with boron and nitrogen for photocatalytic applications. <i>Chemical Physics</i> , 2007, 339, 111-123.	0.9	194
854	Chemically synthesized nitrogen-doped metal oxide nanoparticles. <i>Chemical Physics</i> , 2007, 339, 1-10.	0.9	195
855	Effects of doping of metal cations on morphology, activity, and visible light response of photocatalysts. <i>Chemical Physics</i> , 2007, 339, 104-110.	0.9	191
856	Recent developments in titanium oxide-based photocatalysts. <i>Applied Catalysis A: General</i> , 2007, 325, 1-14.	2.2	424
857	New hydrogen-producing photocatalystsâ€”A combinatorial search. <i>Applied Catalysis B: Environmental</i> , 2007, 76, 146-157.	10.8	35
858	Anatase TiO <sub>2</sub> films with 2.2eV band gap prepared by micro-arc oxidation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 139, 216-220.	1.7	95
859	Optical absorption and ultrafast carrier dynamics characterization of CdSe quantum dots deposited on different morphologies of nanostructured TiO <sub>2</sub> films. <i>Materials Science and Engineering C</i> , 2007, 27, 1514-1520.	3.8	37
860	Progress in sputtered tungsten trioxide for photoelectrode applications. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 3110-3115.	3.8	131
861	Titanium dioxide for solar-hydrogen I. Functional propertiesâ†. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2609-2629.	3.8	205
862	A comparison of PV/electrolyser and photoelectrolytic technologies for use in solar to hydrogen energy storage systems. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2703-2711.	3.8	55
863	Study of modular PEC solar cells for photoelectrochemical splitting of water employing nanostructured TiO <sub>2</sub> /TiO <sub>2</sub> photoelectrodes. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 1680-1685.	3.8	74

#	ARTICLE	IF	CITATIONS
864	Polyelectrolytes-organometallic multilayers for efficient photocurrent generation: [polypropylviologen/RuL2(NCS)2/(PEDOT;PSS)] <sub>n</sub> on ITO. <i>Electrochemistry Communications</i> , 2007, 9, 729-734.	2.3	21
865	Amphiphilic ruthenium dye as an ideal sensitizer in conversion of light to electricity using ionic liquid crystal electrolyte. <i>Electrochemistry Communications</i> , 2007, 9, 1134-1138.	2.3	53
866	Highly efficient dye-sensitized SnO <sub>2</sub> solar cells having sufficient electron diffusion length. <i>Electrochemistry Communications</i> , 2007, 9, 1439-1443.	2.3	172
867	Enhanced photocurrent generations in RuL2(NCS)2/di-(3-aminopropyl)-viologen self-assembled on In <sub>2</sub> O <sub>3</sub> nanorods. <i>Electrochemistry Communications</i> , 2007, 9, 1502-1507.	2.3	14
868	Photo(UV)-enhanced performance of Pt@TiO <sub>2</sub> nanostructure electrode for methanol oxidation. <i>Electrochemistry Communications</i> , 2007, 9, 1578-1581.	2.3	84
869	Nb-TiO <sub>2</sub> supported Pt cathode catalyst for polymer electrolyte membrane fuel cells. <i>Electrochemistry Communications</i> , 2007, 9, 2256-2260.	2.3	190
870	The application of P(MMA-co-MAA)/PEG polyblend gel electrolyte in quasi-solid state dye-sensitized solar cell at higher temperature. <i>Electrochimica Acta</i> , 2007, 53, 903-908.	2.6	43
871	Strongly intrinsic anharmonicity in the low-frequency Raman mode in nanocrystalline anatase TiO <sub>2</sub> . <i>Physica B: Condensed Matter</i> , 2007, 398, 33-37.	1.3	20
872	Unprecedented coloration of rutile titanium dioxide nanocrystalline thin films. <i>Micron</i> , 2007, 38, 85-90.	1.1	16
873	Effect of tantalum addition on anatase phase stability and photoactivity of aqueous sol-gel derived mesoporous titania. <i>Journal of Molecular Catalysis A</i> , 2007, 276, 41-46.	4.8	48
874	Effect of solvents in liquid electrolyte on the photovoltaic performance of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2007, 173, 585-591.	4.0	72
875	Anatase nanotubes as support for platinum nanocrystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 245-249.	1.3	23
876	New platinum(II) complexes as triplet emitters for high-efficiency monochromatic pure orange electroluminescent devices. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 3461-3473.	0.8	72
877	A comparative theoretical investigation of ruthenium dyes in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 185, 283-288.	2.0	24
878	Quaternary ammonium polyiodides as ionic liquid/soft solid electrolytes in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 186, 29-33.	2.0	34
879	Characterization of methylene blue/TiO <sub>2</sub> hybrid thin films prepared by the liquid phase deposition (LPD) method: Application for fabrication of light-activated colorimetric oxygen indicators. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 187, 45-52.	2.0	68
880	Thermodynamic analysis of some electrochemical properties of transition metal complexes in electronically excited states. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 187, 247-254.	2.0	0
881	Theoretical studies of charge-transfer complexes of I <sub>2</sub> with pyrazoles, and implications on the dye-sensitized solar cell performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 187, 233-241.	2.0	11



#	ARTICLE	IF	CITATIONS
882	Quasi-solid-state dye-sensitized solar cells: Pt and PEDOT:PSS counter electrodes applied to gel electrolyte assemblies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 187, 395-401.	2.0	93
883	Tetrahydroquinoline dyes with different spacers for organic dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 295-300.	2.0	170
884	Synthesis, characterization and sensitization properties of two novel mono and bis carboxyl-dipyrido-phenazine ruthenium(II) charge transfer complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 191, 6-12.	2.0	33
885	All-plastic dye-sensitized solar cell using a polysaccharide film containing excess redox electrolyte solution. <i>Journal of Electroanalytical Chemistry</i> , 2007, 599, 23-30.	1.9	57
886	Electrolysis of water on oxide surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2007, 607, 83-89.	1.9	2,277
887	3D-ITIES supported on porous reticulated vitreous carbon. <i>Journal of Electroanalytical Chemistry</i> , 2007, 604, 65-71.	1.9	7
888	Photoelectrochemical oxidation behavior of methanol on highly ordered TiO <sub>2</sub> nanotube array electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2007, 610, 179-185.	1.9	69
889	One-dimensional titanate nanostructures: Synthesis and characterization. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4339-4343.	2.8	17
890	Surface-enhanced Raman scattering on mercaptopyridine-capped CdS microclusters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 1199-1203.	2.0	60
891	Structural investigation of pristine and annealed nanocrystalline TiO <sub>2</sub> thin films by X-ray diffraction and Raman spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 1822-1829.	0.8	15
892	The effects of pyridine derivative additives on interface processes at nanocrystalline TiO <sub>2</sub> thin film in dye-sensitized solar cells. <i>Surface and Interface Analysis</i> , 2007, 39, 809-816.	0.8	45
893	Environmentally Friendly Methodologies of Nanostructure Synthesis. <i>Small</i> , 2007, 3, 1122-1139.	5.2	314
894	Stable, High-Efficiency Ionic-Liquid-Based Mesoscopic Dye-Sensitized Solar Cells. <i>Small</i> , 2007, 3, 2094-2102.	5.2	191
895	Anodised TiO <sub>2</sub> nano-tubes: voltage ramp influence on the nano-structured oxide and investigation of phase changes promoted by thermal treatments. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1814-1819.	0.8	30
896	Strong anharmonicity and phonon confinement on the lowest-frequency Raman mode of nanocrystalline anatase TiO <sub>2</sub> . <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 2597-2604.	0.7	16
897	Fabrication of screen-printing pastes from TiO <sub>2</sub> powders for dye-sensitised solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2007, 15, 603-612.	4.4	938
898	Direct measurement of the electric-field distribution in a light-emitting electrochemical cell. <i>Nature Materials</i> , 2007, 6, 894-899.	13.3	275
899	Spontaneous-emission control by photonic crystals and nanocavities. <i>Nature Photonics</i> , 2007, 1, 449-458.	15.6	842

#	ARTICLE	IF	CITATIONS
900	Coaxial silicon nanowires as solar cells and nanoelectronic power sources. <i>Nature</i> , 2007, 449, 885-889.	13.7	2,791
901	Applications of Free-Electron Lasers in the Biological and Material Sciences. <i>Photochemistry and Photobiology</i> , 2005, 81, 711-735.	1.3	5
902	Oxidation Potentials of Human Eumelanosomes and Pheomelanosomes. <i>Photochemistry and Photobiology</i> , 2005, 81, 145-148.	1.3	11
903	Large-Scale Hydrothermal Synthesis of Twinned Rutile Titania. <i>Journal of the American Ceramic Society</i> , 2007, 90, 319-321.	1.9	10
904	Assembly of gold composite thin films by spontaneous reduction of subphase chloroaurate anions beneath vitamin E Langmuir monolayers. <i>Materials Chemistry and Physics</i> , 2007, 105, 25-30.	2.0	2
905	Preparation and characterization of high surface area nanosheet titania with mesoporous structure. <i>Materials Letters</i> , 2007, 61, 2973-2977.	1.3	31
906	Synthesis of nano-particles of anatase-TiO <sub>2</sub> and preparation of its optically transparent film in PVA. <i>Materials Letters</i> , 2007, 61, 4725-4730.	1.3	118
907	Dye-sensitized solar cell architecture based on indium-tin oxide nanowires coated with titanium dioxide. <i>Scripta Materialia</i> , 2007, 57, 277-280.	2.6	64
908	Enhanced anatase-to-rutile phase transformation without exaggerated particle growth in nanostructured titania-tin oxide composites. <i>Scripta Materialia</i> , 2007, 57, 771-774.	2.6	53
909	Raman study of photo-induced degradation of the Ru(II) complex adsorbed on nanocrystalline TiO <sub>2</sub> films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, R83-R85.	1.2	5
910	Thin films of titanium and tin oxides and semiconductor structures on their basis obtained by pyrolytic pulverization: Preparation, characterization, and corrosion properties. <i>Surface Engineering and Applied Electrochemistry</i> , 2007, 43, 443-452.	0.3	1
911	Molecular-dynamics simulation of nanoclusters of crystal modifications of titanium dioxide. <i>Russian Journal of General Chemistry</i> , 2007, 77, 10-16.	0.3	16
912	Photosensitization of ZnO Nanowires with CdSe Quantum Dots for Photovoltaic Devices. <i>Nano Letters</i> , 2007, 7, 1793-1798.	4.5	935
913	Hierarchical ZnO Nanostructures Obtained by Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11560-11565.	1.5	155
914	<i>cis</i> -Dicyanoosmium(II) Diimine Complexes Bearing Phosphine or Sulfoxide Ligands: Spectroscopic and Luminescent Studies. <i>Inorganic Chemistry</i> , 2007, 46, 11003-11016.	1.9	18
915	Titanium Dioxide Nanomaterials: Synthesis, Properties, Modifications, and Applications. <i>Chemical Reviews</i> , 2007, 107, 2891-2959.	23.0	9,393
916	Toward Cost-Effective Solar Energy Use. <i>Science</i> , 2007, 315, 798-801.	6.0	2,109
917	Solvent dependent photophysics of fac-[Re(CO) <sub>3</sub> (11,12-X <sub>2</sub> dppz)(py)] <sup>+</sup> (X = H, F or Me). <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 741.	1.6	31

#	ARTICLE	IF	CITATIONS
918	Structural properties of amorphous TiO <sub>2</sub> nanoparticles. <i>European Physical Journal D</i> , 2007, 44, 515-524.	0.6	69
919	An integrated computational tool for the study of the optical properties of nanoscale devices: application to solar cells and molecular wires. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 1093-1104.	0.5	36
920	Layer-by-layer Au nanoparticles as a Schottky barrier in a water-based dye-sensitized solar cell. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 173-178.	1.1	47
921	Preparation of a novel polymer gel electrolyte based on N-methyl-quinoline iodide and its application in quasi-solid-state dye-sensitized solar cell. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 42, 65-70.	1.1	18
922	Ruthenium(III) catalysis in the reaction of hexacyanoferrate(III) and iodide ions in perchloric acid medium. <i>Transition Metal Chemistry</i> , 2007, 32, 74-80.	0.7	7
923	Iridium(III) catalyzed oxidation of iodide ions in aqueous acidic medium. <i>Transition Metal Chemistry</i> , 2007, 32, 541-547.	0.7	5
924	Dye sensitized CO <sub>2</sub> reduction over pure and platinized TiO <sub>2</sub> . <i>Topics in Catalysis</i> , 2007, 44, 523-528.	1.3	74
925	Hydrogen generation at irradiated oxide semiconductor/solution interfaces. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 765-787.	1.5	240
926	Biophotofuel cell (BPFC) generating electrical power directly from aqueous solutions of biomass and its related compounds while photodecomposing and cleaning. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 1039-1046.	1.5	17
927	Characteristics of nanostructure and electrical properties of Ti thin films as a function of substrate temperature and film thickness. <i>Journal of Materials Science</i> , 2007, 42, 2603-2611.	1.7	11
928	Macro, micro and nanostructure of TiO <sub>2</sub> anodised films prepared in a fluorine-containing electrolyte. <i>Journal of Materials Science</i> , 2007, 42, 6729-6734.	1.7	77
929	Morphological control in solvothermal synthesis of titanium oxide. <i>Journal of Materials Science</i> , 2007, 42, 6583-6589.	1.7	68
930	Dye-sensitized solar cell based on nanocrystalline TiO <sub>2</sub> with 3 × 10 <sup>2</sup> nm in diameter. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 593-597.	1.1	17
931	Role of the Platinum Nanoclusters in the Iodide/Triiodide Redox System of Dye Solar Cells. <i>Journal of Cluster Science</i> , 2007, 18, 141-155.	1.7	59
932	Development of Cocatalysts for Photocatalytic Overall Water Splitting on (Ga <sub>1-x</sub> Zn <sub>x</sub> )(Ni <sub>1-x</sub> O <sub>x</sub> ) Solid Solution. <i>Catalysis Surveys From Asia</i> , 2007, 11, 145-157.	1.0	53
933	Interfacial properties of self-organized TiO <sub>2</sub> nanotubes studied by impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1077-1084.	1.2	72
934	Materials challenges for terrestrial thin-film photovoltaics. <i>Jom</i> , 2007, 59, 31-36.	0.9	9
935	Quasi-solid state dye-sensitized solar cells based on pyridine or imidazole containing copolymer chemically crosslinked gel electrolytes. <i>Science Bulletin</i> , 2007, 52, 2320-2325.	1.7	10

#	ARTICLE	IF	CITATIONS
936	Pulsed laser deposition of tungsten and tungsten oxide thin films with tailored structure at the nano- and mesoscale. <i>Applied Surface Science</i> , 2007, 253, 8130-8135.	3.1	70
937	Raman study of phase transformation of TiO <sub>2</sub> rutile single crystal irradiated by infrared femtosecond laser. <i>Applied Surface Science</i> , 2007, 253, 7497-7500.	3.1	275
938	The solid–solid interface: Explaining the high and unique photocatalytic reactivity of TiO <sub>2</sub> -based nanocomposite materials. <i>Chemical Physics</i> , 2007, 339, 173-187.	0.9	279
939	Quantum chemical study of TiO <sub>2</sub> /dopamine-DNA triads. <i>Chemical Physics</i> , 2007, 339, 164-172.	0.9	15
940	Surface initiated graft polymerization from carbon-doped TiO <sub>2</sub> nanoparticles under sunlight illumination. <i>Polymer</i> , 2007, 48, 5834-5838.	1.8	27
941	Investigation of the photocatalytic activity of TiO <sub>2</sub> –polyoxometalate systems for the oxidation of methanol. <i>Journal of Molecular Catalysis A</i> , 2007, 262, 185-189.	4.8	45
942	Femtosecond laser irradiation-induced phase transformation on titanium dioxide crystal surface. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 264, 61-65.	0.6	9
943	Low-Pt-loading acetylene-black cathode for high-efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2008, 177, 631-636.	4.0	42
944	Novel three-dimensional dandelion-like TiO <sub>2</sub> structure with high photocatalytic activity. <i>Journal of Solid State Chemistry</i> , 2008, 181, 450-456.	1.4	51
945	XPS characterization of sensitized n-TiO <sub>2</sub> thin films for dye-sensitized solar cell applications. <i>Applied Surface Science</i> , 2008, 254, 1874-1879.	3.1	83
946	Single-step preparation of inverse opal titania films by the doctor blade technique. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 537-542.	3.0	39
947	Charge transfer across the molecule/metal interface using the core hole clock technique. <i>Surface Science Reports</i> , 2008, 63, 465-486.	3.8	68
948	Molecular damage in bi-isonicotinic acid adsorbed on rutile TiO <sub>2</sub> (110). <i>Surface Science</i> , 2008, 602, 1693-1698.	0.8	10
949	Fabrication of thin film dye sensitized solar cells with solar to electric power conversion efficiency over 10%. <i>Thin Solid Films</i> , 2008, 516, 4613-4619.	0.8	1,702
950	Conformity and structure of titanium oxide films grown by atomic layer deposition on silicon substrates. <i>Thin Solid Films</i> , 2008, 516, 4855-4862.	0.8	48
951	Optimal series-parallel connection method of dye-sensitized solar cell for Pt thin film deposition using a radio frequency sputter system. <i>Thin Solid Films</i> , 2008, 517, 963-966.	0.8	10
952	Hydrogen Production by Photo-Induced Reforming of Biomass Components and Derivatives at Ambient Conditions. <i>Catalysis Letters</i> , 2008, 122, 26-32.	1.4	305
953	Thermal stability of hexagonal tungsten trioxide in air. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 94, 499-505.	2.0	35

#	ARTICLE	IF	CITATIONS
954	Preparation of core-shell Ti-Nb oxide nanocrystals. <i>Journal of Nanoparticle Research</i> , 2008, 10, 77-85.	0.8	6
955	Efficient carbon-doped nanostructured TiO <sub>2</sub> (anatase) film for photoelectrochemical solar cells. <i>Journal of Nanoparticle Research</i> , 2008, 10, 357-363.	0.8	87
956	Advances in the application of nanotechnology in enabling a "hydrogen economy". <i>Journal of Materials Science</i> , 2008, 43, 5395-5429.	1.7	221
957	Self-cleaning characteristics on a thin-film surface with nanotube arrays of anodic titanium oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 615-620.	1.1	22
958	Interferometric two-photon photoemission correlation technique and femtosecond wet-electron dynamics at the TiO <sub>2</sub> (110) surface. <i>Frontiers of Physics in China</i> , 2008, 3, 26-40.	1.0	0
959	On the synthesis, characterization and photocatalytic applications of nanostructured TiO <sub>2</sub> . <i>Bulletin of Materials Science</i> , 2008, 31, 545-550.	0.8	27
960	Photoelectrochemical studies on colloidal copper (I) oxide/modified with some organic semiconductors: Incentive for use of nanoparticle systems. <i>Bulletin of Materials Science</i> , 2008, 31, 925-929.	0.8	5
961	Functionalized zinc porphyrin as light harvester in dye sensitized solar cells. <i>Journal of Chemical Sciences</i> , 2008, 120, 455-462.	0.7	17
962	Application of Block Copolymer Supramolecular Assembly for the Fabrication of Complex TiO <sub>2</sub> Nanostructures. <i>Small</i> , 2008, 4, 2162-2165.	5.2	11
963	Nanoporous oxides of refractory metals: fabrication and properties. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3690-3693.	0.8	4
964	Synthesis of terpyridine ligands and their complexation with Zn <sup>2+</sup> and Ru <sup>2+</sup> for optoelectronic applications. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7702-7712.	2.5	50
965	Intensity and temperature dependent characterization of eta solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1713-1718.	0.8	9
966	Detailed balance and reciprocity in solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2737-2751.	0.8	112
967	Liquid Crystalline Orientation of Semiconducting Nanorods in a Semiconducting Matrix. <i>Macromolecular Rapid Communications</i> , 2008, 29, 922-927.	2.0	39
968	Efficient Rhodium-Catalyzed Installation of Unsaturated Ester Functions onto Porphyrins: Site-Specific Heck-Type Addition versus Conjugate Addition. <i>Chemistry - A European Journal</i> , 2008, 14, 4256-4262.	1.7	23
969	Theoretical modelling of the electrode thickness effect on maximum power point of dye-sensitized solar cell. <i>Canadian Journal of Chemical Engineering</i> , 2008, 86, 35-42.	0.9	57
970	Overcoming Kinetic Limitations of Electron Injection in the Dye Solar Cell via Coadsorption and FRET. <i>ChemPhysChem</i> , 2008, 9, 793-798.	1.0	49
971	Fabrication of Dye-Sensitized Solar Cells with an Open-Circuit Photovoltage of 1...V. <i>ChemSusChem</i> , 2008, 1, 401-403.	3.6	56

#	ARTICLE	IF	CITATIONS
972	Triarylamine-Functionalized Ruthenium Dyes for Efficient Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2008, 1, 901-904.	3.6	22
973	Synthesis of <i>para</i> -Amino Benzoic Acid-TiO <sub>2</sub> Hybrid Nanostructures of Controlled Functionality by an Aqueous One-Step Process. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 980-987.	1.0	33
974	Heteroaromatic Donor-Acceptor-Conjugated 2,2'-Bipyridines. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5047-5054.	1.2	18
975	Cobaloxime-Based Photocatalytic Devices for Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 564-567.	7.2	400
976	Highly Efficient and Thermally Stable Organic Sensitizers for Solvent-Free Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 327-330.	7.2	370
977	Importance of the Relationship between Surface Phases and Photocatalytic Activity of TiO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1766-1769.	7.2	1,093
978	Ru-Complex-Based Water Oxidation Catalysts Anchored on Conducting Solid Supports. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5830-5832.	7.2	108
979	Aggregation of ZnO Nanocrystallites for High Conversion Efficiency in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2402-2406.	7.2	598
980	An All-Inorganic, Stable, and Highly Active Tetra Ruthenium Homogeneous Catalyst for Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3896-3899.	7.2	559
981	Visible-Light-Driven Oxidation of Organic Contaminants in Air with Gold Nanoparticle Catalysts on Oxide Supports. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5353-5356.	7.2	338
982	Stepwise Cosensitization of Nanocrystalline TiO <sub>2</sub> Films Utilizing Al <sub>2</sub> O <sub>3</sub> Layers in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8259-8263.	7.2	137
983	Photoconducting Bragg Mirrors based on TiO <sub>2</sub> Nanoparticle Multilayers. <i>Advanced Functional Materials</i> , 2008, 18, 2708-2715.	7.8	81
984	Band-Edge Engineered Hybrid Structures for Dye-Sensitized Solar Cells Based on SnO <sub>2</sub> Nanowires. <i>Advanced Functional Materials</i> , 2008, 18, 2411-2418.	7.8	413
985	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2008, 18, 3787-3793.	7.8	97
986	Nano-embossed Hollow Spherical TiO <sub>2</sub> as Bifunctional Material for High-Efficiency Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2008, 20, 195-199.	11.1	557
987	Engineering Three-Dimensional Micromirror Arrays by Fiber-Drawing Nanomanufacturing for Solar Energy Conversion. <i>Advanced Materials</i> , 2008, 20, 3734-3738.	11.1	12
988	Polymer Solar Cells That Use Self-Assembled Monolayer-Modified ZnO/Metals as Cathodes. <i>Advanced Materials</i> , 2008, 20, 2376-2382.	11.1	511
989	Growth of Photocatalytic CdSe-Pt Nanorods and Nanonets. <i>Advanced Materials</i> , 2008, 20, 4312-4317.	11.1	240

#	ARTICLE	IF	CITATIONS
990	Direct Growth of Highly Mismatched Type II ZnO/ZnSe Core/Shell Nanowire Arrays on Transparent Conducting Oxide Substrates for Solar Cell Applications. <i>Advanced Materials</i> , 2008, 20, 3248-3253.	11.1	330
1000	Evaporation-Induced Self-Assembly for the Preparation of Porous Metal Oxide Films. , 0, , 283-312.		0
1002	Ion-pair charge transfer complexes with intense near IR absorption: Syntheses, crystal structures, electronic spectra and DFT calculations. <i>Polyhedron</i> , 2008, 27, 2833-2844.	1.0	31
1003	Optical Kerr effect studies of the dynamics of confined water. <i>Microelectronics Journal</i> , 2008, 39, 1257-1258.	1.1	3
1004	Novel thixotropic gel electrolytes based on dicationic bis-imidazolium salts for quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2008, 175, 692-697.	4.0	97
1005	Enhancement of photoelectrochemical response by aligned nanorods in ZnO thin films. <i>Journal of Power Sources</i> , 2008, 176, 387-392.	4.0	115
1006	High-performance polypyrrole nanoparticles counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2008, 181, 172-176.	4.0	424
1007	Influence of acceptor moiety in triphenylamine-based dyes on the properties of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2008, 183, 792-798.	4.0	45
1008	Solid-state oligomer electrolyte with amineâ€“acid interaction for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2008, 183, 812-816.	4.0	16
1009	A photo-physical and electrochemical impedance spectroscopy study on the quasi-solid state dye-sensitized solar cells based on poly(vinylidene fluoride-co-hexafluoropropylene). <i>Journal of Power Sources</i> , 2008, 185, 1605-1612.	4.0	56
1010	Electrochemical fabrication of anatase TiO <sub>2</sub> nanostructure as an anode material for aqueous lithium-ion batteries. <i>Journal of Power Sources</i> , 2008, 185, 1420-1424.	4.0	70
1011	Maintaining particle size in the transformation of anatase to rutile titania nanostructures. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2898-2906.	1.9	13
1012	InVO <sub>4</sub> -sensitized TiO <sub>2</sub> photocatalysts for efficient air purification with visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 193, 213-221.	2.0	128
1013	A new ionic liquid based quasi-solid state electrolyte for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 20-26.	2.0	50
1014	A quasi-solid-state dye-sensitized solar cell based on porous polymer electrolyte membrane. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 31-36.	2.0	19
1015	Betalain pigments for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 72-80.	2.0	189
1016	Molecular design of coumarin dyes with high efficiency in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 167-172.	2.0	60
1017	Commercial and natural dyes as photosensitizers for a water-based dye-sensitized solar cell loaded with gold nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 307-313.	2.0	155

#	ARTICLE	IF	CITATIONS
1018	Dye-sensitized nanostructured TiO <sub>2</sub> film based photoconductor. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 195, 352-356.	2.0	8
1019	Photovoltaic performance of nanostructured zinc oxide sensitised with xanthene dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 364-370.	2.0	75
1020	Sintering of thin film nanocrystalline titania-tin oxide composites. Journal of the European Ceramic Society, 2008, 28, 2225-2232.	2.8	11
1021	Microemulsion-mediated hydrothermal synthesis of photocatalytic TiO <sub>2</sub> powders. Journal of Hazardous Materials, 2008, 154, 649-654.	6.5	65
1022	Synthesis and characterization of brookite/anatase complex thin film. Applied Surface Science, 2008, 254, 6619-6622.	3.1	15
1023	Metal ion induced room temperature phase transformation and stimulated infrared spectroscopy on TiO <sub>2</sub> -based surfaces. Applied Surface Science, 2008, 255, 718-721.	3.1	3
1024	Application of microporous polyaniline counter electrode for dye-sensitized solar cells. Electrochemistry Communications, 2008, 10, 1299-1302.	2.3	457
1025	Photoelectrochemical application of hollow titania film. Electrochemistry Communications, 2008, 10, 1812-1814.	2.3	13
1026	X-ray spectroscopic study of the electronic structure of visible-light responsive N-, C- and S-doped TiO <sub>2</sub> . Journal of Electron Spectroscopy and Related Phenomena, 2008, 162, 67-73.	0.8	119
1027	Self-assembly approach for the synthesis of electro-magnetic functionalized Fe <sub>3</sub> O <sub>4</sub> /polyaniline nanocomposites: Effect of dopant on the properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 320, 49-56.	2.3	245
1028	The effect mechanism of 4-ethoxy-2-methylpyridine as an electrolyte additive on the performance of dye-sensitized solar cell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 326, 42-47.	2.3	20
1029	Charge carrier dynamics in TiO <sub>2</sub> nanoparticles at various temperatures. Chemical Physics Letters, 2008, 461, 93-96.	1.2	44
1030	Improvement of photocatalytic behavior of chemical-vapor-synthesized TiO <sub>2</sub> nanopowders by post-heat treatment. Current Applied Physics, 2008, 8, 778-783.	1.1	9
1031	Photovoltaic technologies. Energy Policy, 2008, 36, 4390-4396.	4.2	172
1032	Nonperturbative quantum simulation of time-resolved nonlinear spectra: Methodology and application to electron transfer reactions in the condensed phase. Chemical Physics, 2008, 347, 139-151.	0.9	45
1033	Mapping the surface (hydr)oxo-groups of titanium oxide and its interface with an aqueous solution: The state of the art and a new approach. Advances in Colloid and Interface Science, 2008, 142, 20-42.	7.0	68
1034	Developing solar cells with recycled materials and household chemicals for drinking water chlorination by communities with limited resources. Solar Energy, 2008, 82, 1037-1041.	2.9	3
1035	Opportunities and challenges in science and technology of WO <sub>3</sub> for electrochromic and related applications. Solar Energy Materials and Solar Cells, 2008, 92, 245-258.	3.0	752



#	ARTICLE	IF	CITATIONS
1036	Photoelectrochemical investigations on electrochemically deposited CdSe and Fe-doped CdSe thin films. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 45-49.	3.0	35
1037	Incorporating carbon nanotube in a low-temperature fabrication process for dye-sensitized TiO <sub>2</sub> solar cells†. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1628-1633.	3.0	203
1038	Quasi-solid-state dye-sensitized solar cells based on gel electrolytes containing different alkali metal iodide salts. <i>Solid State Ionics</i> , 2008, 179, 2027-2030.	1.3	44
1039	The growth of oriented titanate nanotube thin film on titanium metal flake. <i>Surface and Coatings Technology</i> , 2008, 202, 5431-5435.	2.2	8
1040	Molecular engineering of organic sensitizers containing indole moiety for dye-sensitized solar cells. <i>Tetrahedron</i> , 2008, 64, 10417-10424.	1.0	53
1041	Dopamine/TiO <sub>2</sub> hybrid thin films prepared by the liquid phase deposition method. <i>Thin Solid Films</i> , 2008, 516, 3831-3835.	0.8	33
1042	Investigation of sputter-deposited TiO <sub>2</sub> thin film for the fabrication of dye-sensitized solar cells. <i>Thin Solid Films</i> , 2008, 516, 7149-7154.	0.8	45
1043	Photoelectric behavior of n-GaAs/orange dye, vinyl-ethynyl-trimethyl-piperidole/conductive glass sensor. <i>Thin Solid Films</i> , 2008, 516, 7822-7827.	0.8	16
1044	Comparative study of n-doping and p-doping of poly(3,4-ethylenedioxythiophene) electrosynthesised on aluminium. <i>Thin Solid Films</i> , 2008, 517, 474-478.	0.8	22
1045	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. <i>Applied Catalysis A: General</i> , 2008, 348, 148-152.	2.2	159
1046	Influence of annealing temperature on the nanostructure and corrosivity of Ti/stainless steel substrates. <i>Applied Surface Science</i> , 2008, 254, 2528-2533.	3.1	15
1047	Growth of TiO <sub>2</sub> nanorods by chemical bath deposition method. <i>Applied Surface Science</i> , 2008, 255, 2682-2687.	3.1	56
1048	Platinum nanocube catalysts for methanol and ethanol electrooxidation. <i>Electrochemistry Communications</i> , 2008, 10, 1044-1047.	2.3	115
1049	Morphology and photoelectrochemical properties of TiO <sub>2</sub> electrodes prepared using functionalized plant oil binders. <i>Electrochemistry Communications</i> , 2008, 10, 1187-1190.	2.3	19
1050	TiO <sub>2</sub> Nanotube arrays: Elimination of disordered top layers (‘‘nanograss’’) for improved photoconversion efficiency in dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2008, 10, 1835-1838.	2.3	201
1051	EIS analysis on low temperature fabrication of TiO <sub>2</sub> porous films for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2008, 53, 7514-7522.	2.6	226
1052	Nanomaterials for photovoltaic conversion. <i>Materials Science and Engineering C</i> , 2008, 28, 744-750.	3.8	27
1053	Effect of titania content on the optical properties of dye-doped hybrid sol-gel coatings. <i>Optical Materials</i> , 2008, 31, 451-454.	1.7	10

#	ARTICLE	IF	CITATIONS
1054	Optical and electrochemical properties of polyether derivatives of perylene diimides adsorbed on nanocrystalline metal oxide films. <i>Organic Electronics</i> , 2008, 9, 757-766.	1.4	32
1055	Key aspects of individual layers in solid-state dye-sensitized solar cells and novel concepts to improve their performance. <i>Inorganica Chimica Acta</i> , 2008, 361, 635-655.	1.2	70
1056	Structural parameters controlling the performance of organized mesoporous TiO <sub>2</sub> films in dye sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2008, 361, 656-662.	1.2	52
1057	Size-dependent scattering efficiency in dye-sensitized solar cell. <i>Inorganica Chimica Acta</i> , 2008, 361, 677-683.	1.2	250
1058	A new ion-coordinating ruthenium sensitizer for mesoscopic dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2008, 361, 699-706.	1.2	56
1059	A review of recent results on electrochemical determination of the density of electronic states of nanostructured metal-oxide semiconductors and organic hole conductors. <i>Inorganica Chimica Acta</i> , 2008, 361, 684-698.	1.2	276
1060	A mass spectrometric analysis of sensitizer solution used for dye-sensitized solar cell. <i>Inorganica Chimica Acta</i> , 2008, 361, 798-805.	1.2	78
1061	“Green” path from fossil-based to hydrogen economy: An overview of carbon-neutral technologies. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6804-6839.	3.8	759
1062	A new layer perovskites Pb <sub>2</sub> Ga <sub>2</sub> Nb <sub>2</sub> O <sub>10</sub> and RbPb <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> : An efficient visible light driven photocatalysts to hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6904-6912.	3.8	29
1063	Polymer-induced generation of anatase TiO <sub>2</sub> hollow nanostructures. <i>Microporous and Mesoporous Materials</i> , 2008, 112, 641-646.	2.2	22
1064	Nitrogen-Doped Titanium Dioxide Active in Photocatalytic Reactions with Visible Light: A Multi-Technique Characterization of Differently Prepared Materials. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17244-17252.	1.5	155
1065	Detailed balance theory of excitonic and bulk heterojunction solar cells. <i>Physical Review B</i> , 2008, 78, .	1.1	99
1066	Atomistic simulations of a solid/liquid interface: a combined force field and first principles approach to the structure and dynamics of acetonitrile near an anatase surface. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 064206.	0.7	19
1067	A new study on solid-state cyanine dye-sensitized solar cells. <i>Research on Chemical Intermediates</i> , 2008, 34, 241-248.	1.3	8
1068	Alignment of the dye’s molecular levels with the TiO <sub>2</sub> band edges in dye-sensitized solar cells: a DFT/TDDFT study. <i>Nanotechnology</i> , 2008, 19, 424002.	1.3	263
1069	A Bioinspired Construct That Mimics the Proton Coupled Electron Transfer between P680 <sup>+</sup> and the Tyr <sub>Z</sub> -His190 Pair of Photosystem II. <i>Journal of the American Chemical Society</i> , 2008, 130, 10466-10467.	6.6	156
1070	Photoelectrochemical Properties of Doubly $\hat{\Gamma}^2$ -Functionalized Porphyrin Sensitizers for Dye-Sensitized Nanocrystalline-TiO <sub>2</sub> Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16691-16699.	1.5	126
1071	Improved High-Temperature Stability and Sun-Light-Driven Photocatalytic Activity of Sulfur-Doped Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2008, 112, 7644-7652.	1.5	215

#	ARTICLE	IF	CITATIONS
1072	CdSe Quantum Dot-Sensitized Solar Cells Exceeding Efficiency 1% at Full-Sun Intensity. Journal of Physical Chemistry C, 2008, 112, 11600-11608.	1.5	339
1073	Quinoxaline-Fused Porphyrins for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2008, 112, 4396-4405.	1.5	166
1074	Quantum Dot Solar Cells. Semiconductor Nanocrystals as Light Harvesters. Journal of Physical Chemistry C, 2008, 112, 18737-18753.	1.5	2,322
1075	Electrochemical charge transfer at a metallic electrode: A simulation study. Journal of Chemical Physics, 2008, 128, 124701.	1.2	84
1076	Enhanced Visible Light Absorption in a Photocatalytic Thin Film from a Decoupled Photonic Crystal. Journal of the American Ceramic Society, 2008, 91, 2575-2580.	1.9	4
1077	Anatase TiO <sub>2</sub> single crystals with a large percentage of reactive facets. Nature, 2008, 453, 638-641.	13.7	3,753
1078	High-performance dye-sensitized solar cells based on solvent-free electrolytes produced from eutectic melts. Nature Materials, 2008, 7, 626-630.	13.3	622
1079	Renewing old promises. Nature Materials, 2008, 7, 615-615.	13.3	0
1080	Anatase shows its reactive side. Nature Materials, 2008, 7, 613-615.	13.3	472
1081	The other half of the equation. Nature Materials, 2008, 7, 770-771.	13.3	39
1082	Bifacial dye-sensitized solar cells based on an ionic liquid electrolyte. Nature Photonics, 2008, 2, 693-698.	15.6	279
1083	Molecular Plasmonics: Chromophore-Plasmon Coupling and Single-Particle Nanosensors. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1418-1429.	1.9	33
1084	Solidification of liquid electrolyte with imidazole polymers for quasi-solid-state dye-sensitized solar cells. Materials Chemistry and Physics, 2008, 107, 61-66.	2.0	56
1085	Effects of polymer media on electrospun mesoporous titania nanofibers. Materials Chemistry and Physics, 2008, 107, 480-487.	2.0	35
1086	The polymer gel electrolyte based on poly(methyl methacrylate) and its application in quasi-solid-state dye-sensitized solar cells. Materials Chemistry and Physics, 2008, 110, 38-42.	2.0	160
1087	Enhanced photocurrent in RuL <sub>2</sub> (NCS) <sub>2</sub> /di-(3-aminopropyl)-viologen/SnO <sub>2</sub> /ITO system. Materials Chemistry and Physics, 2008, 112, 208-212.	2.0	8
1088	Development of bioinspired artificial photosynthetic systems. Physical Chemistry Chemical Physics, 2008, 10, 2283.	1.3	427
1089	Fabrication of High Conductivity TiO <sub>2</sub> /Ag Fibrous Electrode by the Electrophoretic Deposition Method. Journal of Physical Chemistry C, 2008, 112, 18686-18689.	1.5	86

#	ARTICLE	IF	CITATIONS
1090	The glass transition and thermodynamics of liquid and amorphous TiO <sub>2</sub> nanoparticles. <i>Nanotechnology</i> , 2008, 19, 105706.	1.3	40
1091	Colloidal Quantum Dots (QDs) in Optoelectronic Devices – Solar Cells, Photodetectors, Light-emitting Diodes. , 2008, , 810-820.		1
1092	Synthesis, Characterization, and Cation-Induced Supramolecular Structures of Photochromic Bisthiénylene-Tetraazaporphyrin Hybrids (BTE-TAPs) Bearing Crown Ether Moieties. <i>Australian Journal of Chemistry</i> , 2008, 61, 640.	0.5	2
1093	Freestanding TiO <sub>2</sub> Nanotube Arrays with Ultrahigh Aspect Ratio via Electrochemical Anodization. <i>Chemistry of Materials</i> , 2008, 20, 1257-1261.	3.2	286
1094	Europium complexes immobilization on titania via chemical modification of titanium alkoxide. <i>Journal of Materials Chemistry</i> , 2008, 18, 735.	6.7	50
1095	The synthesis and selective gas sensing characteristics of SnO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> hierarchical nanostructures. <i>Nanotechnology</i> , 2008, 19, 205603.	1.3	91
1096	Synthesis, characterization and computational study of nitrogen-doped CeO <sub>2</sub> nanoparticles with visible-light activity. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5633.	1.3	93
1097	An Organic Sensitizer with a Fused Dithienothiophene Unit for Efficient and Stable Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 9202-9203.	6.6	322
1098	Highly Efficient CdSe-Sensitized TiO <sub>2</sub> Photoelectrode for Quantum-Dot-Sensitized Solar Cell Applications. <i>Chemistry of Materials</i> , 2008, 20, 6903-6905.	3.2	284
1099	Layered Nanostructures of Delaminated Anatase: Nanosheets and Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3239-3246.	1.5	57
1100	Electronic Excited State of Alizarin Dye Adsorbed on TiO <sub>2</sub> Nanoparticles: A Study by Electroabsorption (Stark Effect) Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10233-10241.	1.5	45
1101	Selective Synthesis of FeS and FeS <sub>2</sub> Nanosheet Films on Iron Substrates as Novel Photocathodes for Tandem Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13037-13042.	1.5	105
1102	Single-Walled Carbon Nanotube Scaffolds for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4776-4782.	1.5	225
1103	Dynamical Simulation of Photoinduced Electron Transfer Reactions in Dye-Semiconductor Systems with Different Anchor Groups. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12326-12333.	1.5	81
1104	Coumarin dyes for dye-sensitized solar cells: A long-range-corrected density functional study. <i>Journal of Chemical Physics</i> , 2008, 129, 214703.	1.2	166
1105	Electronic, Energetic, and Chemical Effects of Intrinsic Defects and Fe-Doping of CoAl <sub>2</sub> O <sub>4</sub> : A DFT+U Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12044-12050.	1.5	75
1106	A Computational Study on Adsorption Configurations and Dissociative Reactions of the HN <sub>3</sub> Molecule on the TiO <sub>2</sub> Anatase (101) Surface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18017-18027.	1.5	7
1107	Highly efficient high temperature electrolysis. <i>Journal of Materials Chemistry</i> , 2008, 18, 2331.	6.7	398

#	ARTICLE	IF	CITATIONS
1108	Chemical reactions on rutile TiO <sub>2</sub> (110). Chemical Society Reviews, 2008, 37, 2328.	18.7	476
1109	Oxidation and Photo-Oxidation of Water on TiO <sub>2</sub> Surface. Journal of Physical Chemistry C, 2008, 112, 9872-9879.	1.5	587
1110	Hetero-nanostructured Films of Titanium and Manganese Oxide Nanosheets: Photoinduced Charge Transfer and Electrochemical Properties. Journal of Physical Chemistry C, 2008, 112, 5197-5202.	1.5	67
1111	Oriented single crystalline titanium dioxide nanowires. Nanotechnology, 2008, 19, 505604.	1.3	138
1112	Magnetically induced TiO <sub>2</sub> nanowires: Formation, optical, and transport properties. Applied Physics Letters, 2008, 92, .	1.5	51
1113	High-conversion-efficiency organic dye-sensitized solar cells with a novel indoline dye. Chemical Communications, 2008, , 5194.	2.2	732
1114	A novel nanostructured semiconductor photocatalyst for solar hydrogen production. , 2008, , .		1
1115	Charge-Transfer Processes in Dye-Sensitized NiO Solar Cells. Journal of Physical Chemistry C, 2008, 112, 16134-16139.	1.5	164
1116	Hole-Mediated Photodecomposition of Trimethyl Acetate on a TiO <sub>2</sub> (001) Anatase Epitaxial Thin Film Surface. Journal of Physical Chemistry C, 2008, 112, 20050-20056.	1.5	48
1117	Progress on the electrolytes for dye-sensitized solar cells. Pure and Applied Chemistry, 2008, 80, 2241-2258.	0.9	234
1118	Morphology control of CNT-TiO <sub>2</sub> hybrid materials and rutile nanotubes. Journal of Materials Chemistry, 2008, 18, 2036.	6.7	133
1119	Improved External Quantum Efficiency of GaN p-i-n Photodiodes With a TiO <sub>2</sub> Roughened Surface. IEEE Photonics Technology Letters, 2008, 20, 285-287.	1.3	1
1120	Stability and Controlled Composition of Hexagonal WO <sub>3</sub> . Chemistry of Materials, 2008, 20, 4116-4125.	3.2	192
1121	Surface Forces and Nanorheology of Molecularly Thin Films. , 2008, , 417-515.		10
1122	Molecular Engineering of Organic Sensitizers Containing p-Phenylene Vinylene Unit for Dye-Sensitized Solar Cells. Journal of Organic Chemistry, 2008, 73, 7072-7079.	1.7	114
1123	Synthesis and characterization of nanoporous phospho-tungstate organic-inorganic hybrid materials. Journal of Materials Chemistry, 2008, 18, 868.	6.7	14
1124	Photoswitches and Luminescent Rigidity Sensors Based on fac-[Re(CO) <sub>3</sub> (Me <sub>4</sub> phen)(L)] <sup>+</sup> . Inorganic Chemistry, 2008, 47, 10851-10857.	1.9	58
1125	Light, Water, Hydrogen. , 2008, , .		176

#	ARTICLE	IF	CITATIONS
1126	Molecular engineering of hybrid sensitizers incorporating an organic antenna into ruthenium complex and their application in solar cells. <i>New Journal of Chemistry</i> , 2008, 32, 2233.	1.4	39
1127	Ab initio investigation of hybrid organic-inorganic perovskites based on tin halides. <i>Physical Review B</i> , 2008, 77, .	1.1	398
1128	Metal Nanoclusters: Synthesis and Strategies for their Size Control. , 2008, , 21-48.		11
1129	A new heteroleptic ruthenium sensitizer enhances the absorptivity of mesoporous titania film for a high efficiency dye-sensitized solar cell. <i>Chemical Communications</i> , 2008, , 2635.	2.2	310
1130	Size-dependent optical properties and carriers dynamics in CdSe/ZnS quantum dots. <i>Chinese Physics B</i> , 2008, 17, 1280-1285.	0.7	20
1131	Ladder-Type Pentaphenylene Dyes for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2008, 20, 1808-1815.	3.2	122
1132	Growth, detachment and transfer of highly-ordered TiO <sub>2</sub> nanotube arrays: use in dye-sensitized solar cells. <i>Chemical Communications</i> , 2008, , 2867.	2.2	218
1133	A high efficiency indoline-sensitized solar cell based on a nanocrystalline TiO <sub>2</sub> surface doped with copper. <i>Nanotechnology</i> , 2008, 19, 485703.	1.3	33
1134	Surfactant-mediated growth of nanostructured zinc oxide thin films via electrodeposition and their photoelectrochemical performance. <i>Nanotechnology</i> , 2008, 19, 325706.	1.3	85
1135	Visible Light Induced Photoelectrochemical Properties of n-BiVO <sub>4</sub> and n-BiVO <sub>4</sub> /p-Co <sub>3</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2008, 112, 548-554.	1.5	341
1136	Hydrogen Generation from Irradiated Semiconductor-Liquid Interfaces. , 2008, , 167-228.		7
1137	The Ultrafast Temporal and Spectral Characterization of Electron Injection from Perylene Derivatives into ZnO and TiO <sub>2</sub> Colloidal Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10542-10552.	1.5	42
1138	Dye-Sensitized Solar Cells with Solvent-Free Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13775-13781.	1.5	126
1139	Electron-rich heteroaromatic conjugated bipyridine based ruthenium sensitizer for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2008, , 5318.	2.2	107
1140	Tuning the optical and photoelectrochemical properties of surface-modified TiO <sub>2</sub> . <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 40-48.	1.6	224
1141	Crystal Morphology of Anatase Titania Nanocrystals Used in Dye-Sensitized Solar Cells. <i>Crystal Growth and Design</i> , 2008, 8, 247-252.	1.4	83
1142	Origin of Size-Dependent Energy Transfer from Photoexcited CdSe Quantum Dots to Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6695-6699.	1.5	43
1143	Electrical and Optical Transport of GaAs/Carbon Nanotube Heterojunctions. <i>Nano Letters</i> , 2008, 8, 1809-1812.	4.5	59

#	ARTICLE	IF	CITATIONS
1144	A visible light-sensitive tungsten carbide/tungsten trioxide composite photocatalyst. Applied Physics Letters, 2008, 92, .	1.5	47
1145	Enhanced Photocatalytic Activity in Anatase/TiO <sub>2</sub> (B) Core-Shell Nanofiber. Journal of Physical Chemistry C, 2008, 112, 20539-20545.	1.5	181
1146	An All-Solid-State Dye-Sensitized Solar Cell-Based Poly( <i>N</i> -alkyl-4-vinyl-pyridine iodide) Electrolyte with Efficiency of 5.64%. Journal of the American Chemical Society, 2008, 130, 11568-11569.	6.6	243
1147	Interfacial modification to improve inverted polymer solar cells. Journal of Materials Chemistry, 2008, 18, 5113.	6.7	339
1148	Spectral Response of Opal-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2008, 112, 13-17.	1.5	137
1149	Photovoltage dynamics of the hydroxylated Si(111) surface investigated by ultrafast electron diffraction. Physical Review B, 2008, 77, .	1.1	24
1150	Carbon nanotube-modified electrodes for solar energy conversion. Energy and Environmental Science, 2008, 1, 120.	15.6	176
1151	Control in Energy Levels of Conjugated Polymers for Photovoltaic Application. Journal of Physical Chemistry C, 2008, 112, 7866-7871.	1.5	62
1152	Near-ultraviolet photodetector based on hybrid polymer/zinc oxide nanorods by low-temperature solution processes. Applied Physics Letters, 2008, 92, .	1.5	110
1153	The cluster model: A hierarchically-ordered assemblage of random-packing spheres for modelling microstructure of porous materials. Journal of Non-Crystalline Solids, 2008, 354, 193-198.	1.5	17
1154	Photoproduction of clean H <sub>2</sub> or O <sub>2</sub> from water using oxide semiconductors in presence of sacrificial reagent. Journal of Alloys and Compounds, 2008, 448, 238-245.	2.8	30
1155	Electronic Surface Level Positions of WO <sub>3</sub> Thin Films for Photoelectrochemical Hydrogen Production. Journal of Physical Chemistry C, 2008, 112, 3078-3082.	1.5	176
1156	Directed Self-Assembly in Laponite/CdSe/Polyaniline Nanocomposites. Langmuir, 2008, 24, 9727-9738.	1.6	28
1157	Solar hydrogen production with nanostructured metal oxides. Journal of Materials Chemistry, 2008, 18, 2311.	6.7	625
1158	New Efficiency Records for Stable Dye-Sensitized Solar Cells with Low-Volatility and Ionic Liquid Electrolytes. Journal of Physical Chemistry C, 2008, 112, 17046-17050.	1.5	197
1159	Quantum Dot Solar Cells. Tuning Photoresponse through Size and Shape Control of CdSe@TiO <sub>2</sub> Architecture. Journal of the American Chemical Society, 2008, 130, 4007-4015.	6.6	1,567
1160	Phase Composition, Size, Orientation, and Antenna Effects of Self-Assembled Anodized Titania Nanotube Arrays: A Polarized Micro-Raman Investigation. Journal of Physical Chemistry C, 2008, 112, 12687-12696.	1.5	109
1161	Density-functional theory study of the effects of atomic impurity on the band edges of monoclinic $WO_3$ . Physical Review B, 2008, 77, .	1.1	93

#	ARTICLE	IF	CITATIONS
1162	Enhance the Optical Absorptivity of Nanocrystalline TiO <sub>2</sub> Film with High Molar Extinction Coefficient Ruthenium Sensitizers for High Performance Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2008, 130, 10720-10728.	6.6	1,307
1163	Self-Templated Synthesis of Nanoporous CdS Nanostructures for Highly Efficient Photocatalytic Hydrogen Production under Visible Light. Chemistry of Materials, 2008, 20, 110-117.	3.2	919
1164	Silicon nanowire array photoelectrochemical solar cells. Applied Physics Letters, 2008, 92, .	1.5	255
1165	Fabrication of an Efficient Dye-Sensitized Solar Cell with Stainless Steel Substrate. Journal of the Electrochemical Society, 2008, 155, F145.	1.3	118
1166	Reduction of ferrate(VI) and oxidation of cyanate in a Fe(VI)-TiO <sub>2</sub> -UV-NCO system. Chemosphere, 2008, 72, 1694-1699.	4.2	21
1167	Microstructure promoted photosensitization activity of dye-titania/titanium composites. Composites Part A: Applied Science and Manufacturing, 2008, 39, 690-696.	3.8	8
1168	Photofunctional nanomaterials composed of multiporphyrins and carbon-based $\pi$ -electron acceptors. Journal of Materials Chemistry, 2008, 18, 1427.	6.7	306
1169	Inorganic Materials as Catalysts for Photochemical Splitting of Water. Chemistry of Materials, 2008, 20, 35-54.	3.2	1,991
1170	Formation of Efficient Dye-Sensitized Solar Cells by Introducing an Interfacial Layer of Long-Range Ordered Mesoporous TiO <sub>2</sub> Thin Film. Langmuir, 2008, 24, 13225-13230.	1.6	88
1171	Enhanced photovoltaic performance and long-term stability of quasi-solid-state dye-sensitized solar cells via molecular engineering. Chemical Communications, 2008, , 4951.	2.2	105
1172	Dye-sensitized solar cells using ZnO nanotips and Ga-doped ZnO films. Semiconductor Science and Technology, 2008, 23, 045004.	1.0	84
1173	Size effects and nanostructured materials for energy applications. Energy and Environmental Science, 2008, 1, 645.	15.6	169
1174	Energy-Level and Molecular Engineering of Organic D-A Sensitizers in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2008, 112, 19770-19776.	1.5	172
1175	Pt-Doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Thin Films Active for Photoelectrochemical Water Splitting. Chemistry of Materials, 2008, 20, 3803-3805.	3.2	512
1176	Electronic structure of ZnO:GaN compounds: Asymmetric bandgap engineering. Physical Review B, 2008, 78, .	1.1	93
1177	A solid-state dye-sensitized solar cell based on a novel ionic liquid gel and ZnO nanoparticles on a flexible polymer substrate. Nanotechnology, 2008, 19, 424006.	1.3	68
1178	A polymer gel electrolyte to achieve $\approx 6\%$ power conversion efficiency with a novel organic dye incorporating a low-band-gap chromophore. Journal of Materials Chemistry, 2008, 18, 5223.	6.7	136
1179	Molecular Structures and Energetics of the (TiO <sub>2</sub> ) <sub>n</sub> ( $n = 1\sim 4$ ) Clusters and Their Anions. Journal of Physical Chemistry A, 2008, 112, 6646-6666.	1.1	161



#	ARTICLE	IF	CITATIONS
1180	Fabrication of a multi-scale nanostructure of TiO <sub>2</sub> for application in dye-sensitized solar cells. <i>Nanotechnology</i> , 2008, 19, 095705.	1.3	31
1181	Real-Time Propagation of the Reduced One-Electron Density Matrix in Atom-Centered Orbitals: Application to Electron Injection Dynamics in Dye-Sensitized TiO <sub>2</sub> Clusters. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16655-16662.	1.5	47
1182	Evaluation of Nitrogen Doping of Tungsten Oxide for Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5213-5220.	1.5	191
1183	Solar-Powered Production of Molecular Hydrogen from Water. <i>Journal of Physical Chemistry C</i> , 2008, 112, 885-889.	1.5	70
1184	Low Molecular Mass Organogelator Based Gel Electrolyte with Effective Charge Transport Property for Long-Term Stable Quasi-Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12927-12933.	1.2	70
1185	Photoinduced electron transfer reaction of tris(4,4'-dicarboxyl-2,2'-bipyridine)ruthenium(ii) ion with organic sulfides. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 1407-1414.	1.6	21
1186	Patterned ZnO nanowires grown on single layer polystyrene spheres and their application in dye sensitive solar cell. , 2008, , .		0
1187	Synthesis and properties of type II core/shell nanowire arrays for solar cells. <i>Conference Record of the IEEE Photovoltaic Specialists Conference</i> , 2008, , .	0.0	0
1188	Direct Water Splitting under Visible Light with Nanostructured Hematite and WO <sub>3</sub> Photoanodes and a GaInP <sub>2</sub> Photocathode. <i>Journal of the Electrochemical Society</i> , 2008, 155, F91.	1.3	121
1189	Dye-sensitized solar cells based on indium-tin oxide nanowires coated with titania layers. , 2008, , .		0
1191	Effect of the sputtering thickness and angle of the Pt film on a counter electrode on the efficiency of a dye-sensitized solar cell. <i>Conference Record of the IEEE Photovoltaic Specialists Conference</i> , 2008, , .	0.0	0
1192	Stable response to visible light of InGaN photoelectrodes. <i>Applied Physics Letters</i> , 2008, 92, 262110.	1.5	50
1193	Atomic layer deposition of photocatalytic TiO <sub>2</sub> thin films from TiF <sub>4</sub> and H <sub>2</sub> O. <i>Dalton Transactions</i> , 2008, , 6467.	1.6	38
1194	Photochemical Investigation of a Polarizable Semiconductor, Lead-Zirconate-Titanate. <i>Chemistry of Materials</i> , 2008, 20, 5901-5906.	3.2	43
1195	Synthesis and properties of [Pt(4-CO <sub>2</sub> CH <sub>3</sub> -py) <sub>2</sub> (mnt)]: comparison of pyridyl and bipyridyl-based dyes for solar cells. <i>Dalton Transactions</i> , 2008, , 6940.	1.6	22
1196	Thermochemical Study of Three Hindered Pyridine Derivatives. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 1820-1823.	1.0	4
1197	3D Hierarchical Porous TiO <sub>2</sub> Films from Colloidal Composite Fluidic Deposition. <i>Chemistry of Materials</i> , 2008, 20, 7130-7135.	3.2	28
1198	Efficient Room-Temperature Conversion of Anatase to Rutile TiO <sub>2</sub> Induced by High-Spin Ion Doping. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1782-1788.	1.5	52

#	ARTICLE	IF	CITATIONS
1199	Resonance Localized Surface Plasmon Spectroscopy: Sensing Substrate and Inhibitor Binding to Cytochrome P450. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13084-13088.	1.5	57
1200	Experimenting with photoelectrochemical cells in drinking straws: practical aids for learning about solar energy in school or at home. <i>Physics Education</i> , 2008, 43, 270-279.	0.3	1
1201	Nanotube Transistors as Direct Probes of the Trap Dynamics at Dielectric/Organic Interfaces of Interest in Organic Electronics and Solar Cells. <i>Nano Letters</i> , 2008, 8, 3619-3625.	4.5	30
1202	Intrinsic Diffusion of Hydrogen on Rutile TiO <sub>2</sub> (110). <i>Journal of the American Chemical Society</i> , 2008, 130, 9080-9088.	6.6	124
1203	Structure and Photoluminescence Study of TiO <sub>2</sub> Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17127-17132.	1.5	135
1204	Tetrahydrothiophenium-Based Ionic Liquids for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11063-11067.	1.5	46
1205	A Sum Frequency Generation Study of the Room-Temperature Ionic Liquid/Titanium Dioxide Interface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3064-3072.	1.5	54
1206	Enabling Nanoscience: From Computation to Experimental Assay Tools. <i>ACS Nano</i> , 2008, 2, 811-812.	7.3	0
1207	Strong Interactions in Dye-Sensitized Interfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5972-5977.	1.5	42
1208	Formation of Oxides and Their Role in the Growth of Ag Nanoplates on GaAs Substrates. <i>Langmuir</i> , 2008, 24, 11928-11934.	1.6	24
1209	Design and Characterization of Randomly Speckled Spheres. <i>Langmuir</i> , 2008, 24, 7618-7622.	1.6	9
1210	Organic Dyes Containing a Cyanovinyl Entity in the Spacer for Solar Cells Applications. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19739-19747.	1.5	84
1211	Adsorption Configurations and Reactions of Boric Acid on a TiO <sub>2</sub> Anatase (101) Surface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8276-8287.	1.5	44
1212	Nanostructured TiO <sub>2</sub> Films with Controlled Morphology Synthesized in a Single Step Process: Performance of Dye-Sensitized Solar Cells and Photo Watersplitting. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4134-4140.	1.5	142
1213	New Organic Sensitizer for Stable Dye-Sensitized Solar Cells with Solvent-Free Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17478-17485.	1.5	73
1214	TiO <sub>2</sub> Nanotube Arrays Annealed in N <sub>2</sub> for Efficient Lithium-Ion Intercalation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11175-11180.	1.5	86
1215	Multilayer Films from Templated TiO <sub>2</sub> and Structural Changes during their Thermal Treatment. <i>Chemistry of Materials</i> , 2008, 20, 2985-2993.	3.2	59
1216	Phenomenally High Molar Extinction Coefficient Sensitizer with Donor-Acceptor-Ligands for Dye-Sensitized Solar Cell Applications. <i>Inorganic Chemistry</i> , 2008, 47, 2267-2273.	1.9	49

#	ARTICLE	IF	CITATIONS
1217	Femtosecond UV Excitation in Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15718-15724.	1.2	26
1218	Efficient Exciton Transport in Layers of Self-Assembled Porphyrin Derivatives. <i>Journal of the American Chemical Society</i> , 2008, 130, 2485-2492.	6.6	71
1219	Fluorescence Lifetime of Emitters with Broad Homogeneous Linewidths Modified in Opal Photonic Crystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7250-7254.	1.5	59
1220	Combinatorial Discovery and Optimization of a Complex Oxide with Water Photoelectrolysis Activity. <i>Chemistry of Materials</i> , 2008, 20, 2495-2502.	3.2	137
1221	Theoretical Studies on Structures and Spectroscopic Properties of Photoelectrochemical Cell Ruthenium Sensitizers, [Ru(H <sub>m</sub> tcterpy)(NCS) <sub>3</sub> ] <sup>n+</sup> (m = 0, 1, 2, and 3; n = 4, 3, 2, and 1). <i>Inorganic Chemistry</i> , 2008, 47, 2312-2324.	1.9	47
1222	Conversion efficiency versus sensitizer for electrospun TiO <sub>2</sub> nanorod electrodes in dye-sensitized solar cells. <i>Nanotechnology</i> , 2008, 19, 424004.	1.3	71
1223	Light-Absorption Enhancement by Nanospaced Trilayer Structure with Highly Reflective Surface Plasmon Scatterer. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10707-10714.	1.5	0
1224	Light trapping and absorption optimization in certain thin-film photonic crystal architectures. <i>Physical Review A</i> , 2008, 78, .	1.0	165
1225	Growth and process conditions of aligned and patternable films of iron(III) oxide nanowires by thermal oxidation of iron. <i>Nanotechnology</i> , 2008, 19, 455608.	1.3	49
1226	Surfactant-Templated Synthesis and Catalytic Properties of Patterned Nanoporous Titania Supports Loaded with Platinum Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 5301-5306.	3.2	32
1227	Porous ZnO hierarchical disk nanostructures dye sensitive solar cell. , 2008, , .		0
1228	Visible Light-Induced Charge Retention and Photocatalysis with Hybrid CdSe~Au Nanodumbbells. <i>Nano Letters</i> , 2008, 8, 637-641.	4.5	466
1229	Femtosecond Fluorescence and Intersystem Crossing in Rhenium(I) Carbonyl~Bipyridine Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 8967-8974.	6.6	269
1230	Photocatalytic Induction of Nanobubbles on TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4029-4032.	1.5	27
1231	Effect of thickness on structural, electrical, and electrochemical properties of platinum/titanium bilayer counterelectrode. <i>Journal of Applied Physics</i> , 2008, 104, 034910.	1.1	14
1232	Pt nanostructure electrodes pulse electrodeposited in PVP for electrochemical power sources. <i>Nanotechnology</i> , 2008, 19, 355602.	1.3	20
1233	Oxides and Semiconductors. , 2008, , 263-290.		4
1234	Nucleation and early growth of anodized TiO <sub>2</sub> film. <i>Journal of Materials Research</i> , 2008, 23, 2116-2124.	1.2	21

#	ARTICLE	IF	CITATIONS
1235	Ruthenium sensitizers based on heteroaromatic conjugated bipyridines for dye-sensitized solar cells. Proceedings of SPIE, 2008, , .	0.8	0
1236	A Photoelectrochemical Model of Proton Exchange Water Electrolysis for Hydrogen Production. Journal of Heat Transfer, 2008, 130, .	1.2	28
1237	Characterization of siloxane adsorbates covalently attached to TiO <sub>2</sub> . Proceedings of SPIE, 2008, , .	0.8	10
1238	Nature-inspired light-harvesting liquid crystalline porphyrins for organic photovoltaics. Liquid Crystals, 2008, 35, 233-239.	0.9	98
1239	Photoemission, resonant photoemission, and x-ray absorption of a Ru(II) complex adsorbed on rutile TiO <sub>2</sub> (110) prepared by <i>in situ</i> electrospray deposition. Journal of Chemical Physics, 2008, 129, 114701.	1.2	80
1240	Electrophoretic Deposition of Au Nanocrystals inside Perpendicular Mesochannels of TiO <sub>2</sub> . Chemistry of Materials, 2008, 20, 6029-6040.	3.2	35
1241	Dual Functions of Clay Nanoparticles with High Aspect Ratio in Dye-Sensitized Solar Cells. Electrochemical and Solid-State Letters, 2008, 11, B171.	2.2	31
1242	High-yield TiO <sub>2</sub> nanowire synthesis and single nanowire field-effect transistor fabrication. Applied Physics Letters, 2008, 92, .	1.5	47
1243	Characterization and Evaluation of the Efficiency of TiO <sub>2</sub> /Zinc Phthalocyanine Nanocomposites as Photocatalysts for Wastewater Treatment Using Solar Irradiation. International Journal of Photoenergy, 2008, 2008, 1-12.	1.4	44
1244	Formation and diffusion of oxygen-vacancy pairs on TiO <sub>2</sub> (110)-(1 $\bar{1}$ –1). Journal of Chemical Physics, 2008, 129, 044703.	1.2	52
1245	Changing adsorption mode of FePc on TiO <sub>2</sub> (110) by surface modification with bipyridine. Journal of Chemical Physics, 2008, 129, 074707.	1.2	22
1246	Toward New Uses for Hematite. Science, 2008, 320, 184-185.	6.0	59
1247	Smart Materials and Concepts for Photovoltaics: Dye Sensitized Solar Cells. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 97-126.	0.2	6
1248	Self-organized TiO <sub>2</sub> nanotubular arrays for photoelectrochemical hydrogen generation: effect of crystallization and defect structures. Journal Physics D: Applied Physics, 2008, 41, 125307.	1.3	96
1249	TITANIUM DIOXIDE NANOPARTICLES ASSEMBLED BY DNA MOLECULES HYBRIDIZATION AND LOADING OF DNA INTERACTING PROTEINS. Nano, 2008, 03, 27-36.	0.5	20
1250	Highly Efficient Dye-Sensitized Solar Cells Based on Ru (II) Complex Black Dye Sensitizers. , 2008, , 1341-1344.		0
1251	Self-assembly and properties of low-dimensional nanomaterials based on $\pi$ -conjugated organic molecules. Pure and Applied Chemistry, 2008, 80, 639-658.	0.9	15
1252	Electronic structure of cluster assembled nanostructured TiO <sub>2</sub> by resonant photoemission at the Ti L <sub>2,3</sub> edge. Journal of Chemical Physics, 2008, 128, 094704.	1.2	30

#	ARTICLE	IF	CITATIONS
1253	Ultrafast nonresonant response of TiO <sub>2</sub> nanostructured films. Journal of Chemical Physics, 2008, 128, 244718.	1.2	14
1254	Radiative recombination dynamics in tetrapod-shaped CdTe nanocrystals: Evidence for a photoinduced screening of the internal electric field. Applied Physics Letters, 2008, 92, .	1.5	7
1255	Quasi-solid-state dye-sensitized solar cells prepared with a D 102 sensitizer and a polymer electrolyte. , 2008, , .		2
1256	Dye-sensitized solar cells based on poly(ethylene glycol) electrolyte containing oxotitanium(IV) 5,10,15,20-tetrakis(p-toyl)porphyrin. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	1
1257	Efficient dye-sensitized solar cells using electrospun TiO <sub>2</sub> nanofibers as a light harvesting layer. Applied Physics Letters, 2008, 93, .	1.5	168
1258	A core-modified porphyrin as a sensitizer for dye-sensitized solar cells. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
1259	Open-circuit voltage improvement by using TiO <sub>2</sub> nanotubes as a working electrode of dye-sensitized solar cell. , 2008, , .		1
1260	Defect-Induced Photoconductivity in Layered Manganese Oxides: A Density Functional Theory Study. Physical Review Letters, 2008, 100, 146601.	2.9	98
1261	Direct Electron Transfer of Hemoglobin on a Carbon Ionic Liquid Electrode with TiO <sub>2</sub> Nanoparticle as Enhancer. Journal of the Chinese Chemical Society, 2008, 55, 1074-1079.	0.8	9
1262	High Resolution Electron Energy Loss Spectroscopy on Perfect and Defective Oxide Surfaces. Zeitschrift Fur Physikalische Chemie, 2008, 222, 927-964.	1.4	30
1263	Three-Dimensional Micro- and Nano-Structuring of Materials by Tightly Focused Laser Radiation. Bulletin of the Chemical Society of Japan, 2008, 81, 411-448.	2.0	78
1264	Influence of ferroelectricity on the photoelectric effect of LiNbO <sub>3</sub> . Applied Physics Letters, 2008, 93, 092905.	1.5	58
1265	New benchmark to improve the photoelectrochemical properties of hematite. Proceedings of SPIE, 2008, , .	0.8	0
1266	Pt/anodized TiO <sub>2</sub> /SiC-based MOS device for hydrocarbon sensing. Proceedings of SPIE, 2008, , .	0.8	2
1267	Nano-structured TiO <sub>2</sub> film fabricated at room temperature and its acoustic properties. Journal Physics D: Applied Physics, 2008, 41, 162001.	1.3	2
1269	Electrochemical Properties of Platinized Counter Electrode on Based Stainless Steel Sheet for Dye-Sensitized Solar Cells. Journal of Chemical Engineering of Japan, 2008, 41, 639-643.	0.3	2
1271	Metamaterial Coatings for Asymmetric Mirrors. , 2008, , .		0
1272	Transition Metal Complexes as Sensitizers for Efficient Mesoscopic Solar Cells. Bulletin of Japan Society of Coordination Chemistry, 2008, 51, 3-12.	0.1	12

#	ARTICLE	IF	CITATIONS
1273	Excimer laser annealing of TiO <sub>2</sub> nanoparticles for dye sensitized solar cells. , 2009, , .		0
1274	Point Defects on Rutile TiO <sub>2</sub> (1 1 0): Reactivity, Dynamics, and Tunability. , 0, , 219-238.		0
1275	Adsorption of a Ru(II) dye complex on the Au(111) surface: Photoemission and scanning tunneling microscopy. Journal of Chemical Physics, 2009, 130, 164704.	1.2	25
1276	Hydrogen Production via Steam Reforming of Ethyl Alcohol over Palladium/Indium Oxide Catalyst. Research Letters in Physical Chemistry, 2009, 2009, 1-4.	0.3	8
1277	Energy Storage in Bifunctional TiO <sub>2</sub> Composite Materials under UV and Visible Light. Energies, 2009, 2, 1009-1030.	1.6	13
1278	Dye adsorbates BrPDI, BrGly, and BrAsp on anataseTiO <sub>2</sub> (001)for dye-sensitized solar cell applications. Physical Review B, 2009, 80, .	1.1	25
1279	ZnO / TiO <sub>2</sub> nanonetwork as efficient photoanode in excitonic solar cells. Applied Physics Letters, 2009, 95, .	1.5	39
1280	Thermal photocatalytic generation of $H_2$ catalysts in $CuAlO_2$ . Physical Review B, 2009, 79, .	1.1	36
1281	Group-III A versus III B delafossites: Electronic structure study. Physical Review B, 2009, 80, .	1.1	69
1282	Orientation-dependent spontaneous emission rates of a two-level quantum emitter in any nanophotonic environment. Physical Review A, 2009, 80, .	1.0	51
1283	Radiation damage in biomimetic dye molecules for solar cells. Journal of Chemical Physics, 2009, 131, 214702.	1.2	22
1284	Universal aspects of photocurrent-voltage characteristics in dye-sensitized nanocrystallineTiO <sub>2</sub> photoelectrochemical cells. Physical Review B, 2009, 79, .	1.1	10
1285	Crystallographic dependence of visible-light photoactivity in epitaxialTiO <sub>2</sub> ~xNanatase and rutile. Physical Review B, 2009, 79, .	1.1	55
1286	A new photoelectrochemical test cell and its use for a combined two-electrode and three-electrode approach to cell testing. Review of Scientific Instruments, 2009, 80, 125107.	0.6	8
1287	Integration of metal oxide nanowires in dye sensitized solar cells. , 2009, , .		0
1288	A passivated codoping approach to tailor the band edges of TiO <sub>2</sub> for efficient photocatalytic degradation of organic pollutants. Applied Physics Letters, 2009, 95, 012106.	1.5	43
1289	Substrate Fermi level effects in photocatalysis on oxides: Properties of ultrathin TiO <sub>2</sub> /Si films. Applied Physics Letters, 2009, 95, 064103.	1.5	8
1290	The dielectric response of the H <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> nanotube investigated by valence electron energy loss spectroscopy. Applied Physics Letters, 2009, 94, 011915.	1.5	4

#	ARTICLE	IF	CITATIONS
1291	High performance binderless TiO <sub>2</sub> nanowire arrays electrode for lithium-ion battery. Applied Physics Letters, 2009, 95, 113102.	1.5	40
1292	Water reactivity with tungsten oxides: H <sub>2</sub> production and kinetic traps. Journal of Chemical Physics, 2009, 131, 144302.	1.2	39
1293	Novel extended $\pi$ -conjugated Zn(II)-porphyrin derivatives bearing pendant triphenylamine moiety for dye-sensitized solar cell: synthesis and characterization. Journal of Porphyrins and Phthalocyanines, 2009, 13, 798-804.	0.4	22
1294	Assignment of photoelectron spectra of (TiO <sub>2</sub> ) <sub>n</sub> with n=1-3. Journal of Chemical Physics, 2009, 130, 174308.	1.2	12
1295	ZnO NANOPOROUS DISK-TiO <sub>2</sub> NANOPARTICLE HYBRID FILM ELECTRODE FOR DYE-SENSITIZED SOLAR CELLS. Functional Materials Letters, 2009, 02, 27-31.	0.7	28
1296	New development of nanocrystalline TiO <sub>2</sub> -based dye-sensitized solar cells. , 2009, , .		0
1297	Influence of capacitance characteristic on dye-sensitized solar cell's IPCE measurement. Journal Physics D: Applied Physics, 2009, 42, 045109.	1.3	13
1298	Spontaneous emission near the band edge of a three-dimensional photonic crystal: a fractional calculus approach. Journal of Physics Condensed Matter, 2009, 21, 015503.	0.7	12
1299	Performances of ZnO-Based Dye Sensitized Solar Cells Fabricated by Hydrothermal Synthesis and Sol-Gel Technique. Chinese Physics Letters, 2009, 26, 018401.	1.3	6
1300	Enhanced Efficiency Dye Sensitized Solar Cells Through Acid Pre-treatment. Materials Research Society Symposia Proceedings, 2009, 1211, 1.	0.1	0
1301	Functional Dyes, and Some Hi-Tech Applications. International Journal of Photoenergy, 2009, 2009, 1-21.	1.4	63
1302	Study of Dye-Sensitized Solar Cells by Scanning Electron Micrograph Observation and Thickness Optimization of Porous $TiO_2$ . International Journal of Photoenergy, 2009, 2009, 1-8.	1.4	31
1303	Layer-By-Layer assembled thin films of inorganic nanomaterials: fabrication and photo-electrochemical properties. International Journal of Surface Science and Engineering, 2009, 3, 44.	0.4	10
1304	Hierarchically Organized Micro/Nano-Structures of TiO <sub>2</sub> . Japanese Journal of Applied Physics, 2009, 48, 06FE02.	0.8	19
1305	Nanostructured solid-state hybrid photovoltaic cells fabricated by electrostatic layer-by-layer deposition. Journal of Applied Physics, 2009, 105, 124313.	1.1	13
1306	Photoinduced homogeneous proton-coupled electron transfer: Model study of isotope effects on reaction dynamics. Journal of Chemical Physics, 2009, 131, 154502.	1.2	20
1307	Improved photoelectrochemical response of haematite by high energy Ag <sup>9+</sup> ions irradiation. Journal Physics D: Applied Physics, 2009, 42, 085303.	1.3	30
1308	Cadmium sulfide quantum dots grown by chemical bath deposition for sensitized solar cell applications. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
1309	The photochemical growth of silver nanoparticles on semiconductor surfacesâ€”initial nucleation stage. <i>Nanotechnology</i> , 2009, 20, 115604.	1.3	34
1310	Growth of ordered C60islands on TiO2(110). <i>Nanotechnology</i> , 2009, 20, 065606.	1.3	41
1311	Preparation of nano-sized mixed crystal TiO2-coated Er3+â€”YAlO3 by solâ€”gel method for photocatalytic degradation of organic dyes under visible light irradiation. <i>Water Science and Technology</i> , 2009, 60, 917-926.	1.2	10
1312	Enhanced Photoelectrochemical Detection of Bioaffinity Reactions by Vertically Oriented Au Nanobranches Complexed with a Biotinylated Polythiophene Derivative. <i>Sensors</i> , 2009, 9, 1094-1107.	2.1	15
1313	Influence of Different Cations of N3 Dyes on Their Photovoltaic Performance and Stability. <i>International Journal of Chemical Engineering</i> , 2009, 2009, 1-7.	1.4	3
1314	Laser annealed composite titanium dioxide electrodes for dye-sensitized solar cells on glass and plastics. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	80
1315	Termination of the W2Oy+H2O/D2O+H2/D2 sequential oxidation reaction: An exploration of kinetic versus thermodynamic effects. <i>Journal of Chemical Physics</i> , 2009, 131, 144306.	1.2	29
1316	Nanostructured Materials for Electrochemical Energy Production and Storage. <i>Nanostructure Science and Technology</i> , 2009, , .	0.1	9
1317	Schottky junction photovoltaic devices based on CdS single nanobelts. <i>Nanotechnology</i> , 2009, 20, 375202.	1.3	46
1318	The US Department of Energy's Working Group on Photoelectrochemical Hydrogen Production: Promoting Technology-Enabling Breakthroughs in Semiconductor Materials Research. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1171, 78.	0.1	0
1319	The Role of the Surface Coverage on the Structural and the Electronic Properties of TiO2 Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1178, 114.	0.1	0
1320	Preparation and properties of antibacterial TiO2@C/Ag coreâ€”shell composite. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 045002.	2.8	15
1321	Nanoparticle Layers Transformed from Ordered TiO2 Nanotube Arrays and Dye-Sensitized Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1211, 1.	0.1	0
1322	Relation Between the Morphology of Electrodeposited ZnO Films and the Efficiency of Dye-Sensitized Solar Cells. <i>ECS Transactions</i> , 2010, 25, 45-50.	0.3	0
1323	High Performance Quasi-Solid Dye-Sensitized Solar Cells with Nano Clay Electrolyte. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1211, 1.	0.1	1
1324	Enhanced Efficiency of Dye-Sensitized Solar Cells Using Anodic Titanium Oxide Nanotube Arrays. <i>Journal of the Electrochemical Society</i> , 2009, 156, C304.	1.3	26
1325	A new composite electrode of Ni-Ferrite/TiO2/Si(111): Preparations and photoelectrochemical studies. <i>Solid State Sciences</i> , 2009, 11, 1170-1175.	1.5	1
1326	Deposition potential dependence of ZnOâ€”eosin Y hybrid thin films prepared by electrochemical deposition and their photoelectrochemical properties. <i>Materials Chemistry and Physics</i> , 2009, 114, 920-925.	2.0	18



#	ARTICLE	IF	CITATIONS
1327	Synthesis and characterization of TiO <sub>2</sub> nanopowders from peroxotitanium solutions. <i>Materials Chemistry and Physics</i> , 2009, 115, 142-146.	2.0	13
1328	Photovoltaic enhancement of dye-sensitized solar cell prepared from [TiO <sub>2</sub> /ethyl cellulose/terpineol] paste employing TRITON <sup>®</sup> , X-based surfactant with carboxylic acid group in the oxyethylene chain end. <i>Materials Chemistry and Physics</i> , 2009, 116, 46-51.	2.0	26
1329	Morphology-controlled synthesis of chromia <sup>®</sup> titania nanofibers via electrospinning followed by annealing. <i>Materials Chemistry and Physics</i> , 2009, 116, 169-174.	2.0	9
1330	Synthesis and characterization of electrochemically deposited nanocrystalline CdTe thin films. <i>Materials Chemistry and Physics</i> , 2009, 116, 261-268.	2.0	29
1331	CdS quantum dots sensitized TiO <sub>2</sub> photoelectrodes. <i>Materials Chemistry and Physics</i> , 2009, 117, 26-28.	2.0	53
1332	Effects of HNO <sub>3</sub> treatment of TiO <sub>2</sub> nanoparticles on the photovoltaic properties of dye-sensitized solar cells. <i>Materials Letters</i> , 2009, 63, 2208-2211.	1.3	57
1333	Highly Efficient Quantum Dot-Sensitized Solar Cell Based on Co-Sensitization of CdS/CdSe. <i>Advanced Functional Materials</i> , 2009, 19, 604-609.	7.8	1,033
1334	Photoelectrochemical Study of Nanostructured ZnO Thin Films for Hydrogen Generation from Water Splitting. <i>Advanced Functional Materials</i> , 2009, 19, 1849-1856.	7.8	436
1335	Organized Nanostructured Complexes of Polyoxometalates and Surfactants that Exhibit Photoluminescence and Electrochromism. <i>Advanced Functional Materials</i> , 2009, 19, 642-652.	7.8	141
1336	Charge Generation and Photovoltaic Operation of Solid-State Dye-Sensitized Solar Cells Incorporating a High Extinction Coefficient Indole <sup>®</sup> -Based Sensitizer. <i>Advanced Functional Materials</i> , 2009, 19, 1810-1818.	7.8	125
1337	PbS and CdS Quantum Dot-Sensitized Solid-State Solar Cells: "Old Concepts, New Results". <i>Advanced Functional Materials</i> , 2009, 19, 2735-2742.	7.8	458
1338	Mesoporous Anatase TiO <sub>2</sub> Beads with High Surface Areas and Controllable Pore Sizes: A Superior Candidate for High-Performance Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009, 21, 2206-2210.	11.1	926
1339	Recent Developments in the Application of Phosphorescent Iridium(III) Complex Systems. <i>Advanced Materials</i> , 2009, 21, 4418-4441.	11.1	693
1340	ZnO Nanostructures for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009, 21, 4087-4108.	11.1	1,629
1341	Patterned Wettability Transition by Photoelectric Cooperative and Anisotropic Wetting for Liquid Reprography. <i>Advanced Materials</i> , 2009, 21, 3744-3749.	11.1	118
1342	Formation of Highly Efficient Dye-Sensitized Solar Cells by Hierarchical Pore Generation with Nanoporous TiO <sub>2</sub> Spheres. <i>Advanced Materials</i> , 2009, 21, 3668-3673.	11.1	452
1346	New Pyrrole-Based Organic Dyes for Dye-Sensitized Solar Cells: Convenient Syntheses and High Efficiency. <i>Chemistry - A European Journal</i> , 2009, 15, 9664-9668.	1.7	59
1347	Charge-Transfer Mechanism in Pt/KTa(Zr)O <sub>3</sub> Photocatalysts Modified with Porphyrinoids for Water Splitting. <i>Chemistry - A European Journal</i> , 2009, 15, 12862-12870.	1.7	43

#	ARTICLE	IF	CITATIONS
1348	Light-Driven Charge Separation in Isoxazolidine-Perylene Bisimide Dyads. <i>Chemistry - A European Journal</i> , 2009, 15, 12733-12744.	1.7	18
1349	Highly Efficient Photocatalyst: TiO <sub>2</sub> Microspheres Produced from TiO <sub>2</sub> Nanosheets with a High Percentage of Reactive {001} Facets. <i>Chemistry - A European Journal</i> , 2009, 15, 12576-12579.	1.7	147
1350	A Cytotoxic Ruthenium Tris(Bipyridyl) Complex that Accumulates at Plasma Membranes. <i>ChemBioChem</i> , 2009, 10, 1796-1800.	1.3	82
1351	Ultrafast Photoinduced Processes in Alizarin-Sensitized Metal Oxide Mesoporous Films. <i>ChemPhysChem</i> , 2009, 10, 384-391.	1.0	40
1352	Influence of Sodium Cations of N3 Dye on the Photovoltaic Performance and Stability of Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2009, 10, 1117-1124.	1.0	45
1353	Influence of Iodide Concentration on the Efficiency and Stability of Dye-Sensitized Solar Cell Containing Non-Volatile Electrolyte. <i>ChemPhysChem</i> , 2009, 10, 1834-1838.	1.0	54
1354	Anode Catalysts for Direct Ethanol Fuel Cells Utilizing Directly Solar Light Illumination. <i>ChemSusChem</i> , 2009, 2, 171-176.	3.6	13
1355	A Ru-Based Water Oxidation Catalyst Anchored on Rutile TiO <sub>2</sub> . <i>ChemSusChem</i> , 2009, 2, 321-329.	3.6	40
1356	Molecular Designs and Syntheses of Organic Dyes for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2903-2934.	1.2	558
1357	Highly Stereoselective and General Synthesis of <i>E</i> -Stilbenes and Alkenes by Means of an Aqueous Wittig Reaction. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 4031-4035.	1.2	85
1358	Well-Defined Crystalline TiO <sub>2</sub> Nanoparticles Generated and Immobilized on a Colloidal Nanoreactor. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 377-386.	1.1	42
1359	Hydrogen generation from photoelectrochemical water splitting based on nanomaterials. <i>Laser and Photonics Reviews</i> , 2010, 4, 517-528.	4.4	266
1360	Adsorption study of 4-MBA on TiO <sub>2</sub> nanoparticles by surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 2004-2008.	1.2	54
1361	Titanium dioxide synthesized using titanium chloride: size effect study using Raman spectroscopy and photoluminescence. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 350-355.	1.2	44
1362	Improved surface-enhanced Raman scattering properties of TiO <sub>2</sub> nanoparticles by Zn dopant. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 721-726.	1.2	50
1367	Molecular Catalysts that Oxidize Water to Dioxygen. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2842-2852.	7.2	400
1368	Magnetically Guided Titania Nanotubes for Site-Selective Photocatalysis and Drug Release. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 969-972.	7.2	210
1369	Metal-Free Organic Dyes for Dye-Sensitized Solar Cells: From Structure: Property Relationships to Design Rules. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2474-2499.	7.2	2,545

#	ARTICLE	IF	CITATIONS
1370	An Efficient Dye-Sensitized Solar Cell with an Organic Sensitizer Encapsulated in a Cyclodextrin Cavity. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5938-5941.	7.2	86
1371	Photoredox Catalysis with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9785-9789.	7.2	906
1372	Formation of a Non-Thickness-Limited Titanium Dioxide Mesosponge and its Use in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9326-9329.	7.2	75
1373	Optical Fiber/Nanowire Hybrid Structures for Efficient Three-Dimensional Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8981-8985.	7.2	219
1374	Large-scale synthesis and gas sensing application of vertically aligned and double-sided tungsten oxide nanorod arrays. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 325-332.	4.0	61
1375	Influence of TiO <sub>2</sub> /electrode interface on electron transport properties in back contact dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 720-724.	3.0	57
1376	Suspension plasma spraying of TiO <sub>2</sub> for the manufacture of photovoltaic cells. <i>Surface and Coatings Technology</i> , 2009, 203, 2146-2149.	2.2	20
1377	The 2 $\times$ 1 reconstruction of the rutile TiO <sub>2</sub> (011) surface: A combined density functional theory, X-ray diffraction, and scanning tunneling microscopy study. <i>Surface Science</i> , 2009, 603, 138-144.	0.8	99
1378	Synthesis and photovoltaic properties of novel organic sensitizers containing indolo[1,2-f]phenanthridine for solar cell. <i>Tetrahedron</i> , 2009, 65, 5302-5307.	1.0	57
1379	Effect of substrate deformation on functional properties of atomic-layer-deposited TiO <sub>2</sub> coatings on stainless steel. <i>Thin Solid Films</i> , 2009, 517, 3797-3805.	0.8	8
1380	Effect of crystallographic orientation on the anodic formation of nanoscale pores/tubes in TiO <sub>2</sub> films. <i>Applied Surface Science</i> , 2009, 256, 120-123.	3.1	16
1381	A planar microfabricated electrolyzer for hydrogen and oxygen generation. <i>Journal of Power Sources</i> , 2009, 188, 256-260.	4.0	11
1382	Structural and electrical properties of magnetron sputtered Ti(ON) thin films: The case of TiN doped in situ with oxygen. <i>Journal of Power Sources</i> , 2009, 194, 93-103.	4.0	88
1383	Binary room-temperature ionic liquids based electrolytes solidified with SiO <sub>2</sub> nanoparticles for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2009, 190, 573-577.	4.0	48
1384	Nanostructured photoelectrode consisting of TiO <sub>2</sub> hollow spheres for non-volatile electrolyte-based dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2009, 194, 574-579.	4.0	55
1385	Sonochemical fabrication of fluorinated mesoporous titanium dioxide microspheres. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1061-1069.	1.4	105
1386	High performance nano-titania photocatalytic paper composite. Part II: Preparation and characterization of natural zeolite-based nano-titania composite sheets and study of their photocatalytic activity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 164, 135-139.	1.7	23
1387	An efficient and low-cost TiO <sub>2</sub> compact layer for performance improvement of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2009, 54, 1319-1324.	2.6	326

#	ARTICLE	IF	CITATIONS
1388	TiO <sub>2</sub> nanotube arrays annealed in CO exhibiting high performance for lithium ion intercalation. <i>Electrochimica Acta</i> , 2009, 54, 6816-6820.	2.6	102
1389	Synthesis of pyridine derivatives and their influence as additives on the photocurrent of dye-sensitized solar cells. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 147-154.	1.5	21
1390	Electrochemical polymerization and characterization of a poly(azulene)-TiO <sub>2</sub> nanoparticle composite film. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 653-661.	1.5	16
1391	Using a galvanostatic anodization system as a water heater. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1883-1887.	1.5	2
1392	Photochemistry on a polarisable semi-conductor: what do we understand today?. <i>Journal of Materials Science</i> , 2009, 44, 5063-5079.	1.7	112
1393	Control of morphology in inert-gas condensation of metal oxide nanoparticles. <i>Journal of Materials Science</i> , 2009, 44, 4286-4295.	1.7	14
1394	Alcohol washing as a way to stabilize the anatase phase of nanostructured titania through controlling particle packing. <i>Journal of Materials Science</i> , 2009, 44, 5944-5948.	1.7	8
1395	Photocatalytic activity of nanostructured TiO <sub>2</sub> films produced by supersonic cluster beam deposition. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1339-1348.	0.8	15
1396	Hydrogen Evolution Over Heteropoly Blue-Sensitized Pt/TiO <sub>2</sub> Under Visible Light Irradiation. <i>Catalysis Letters</i> , 2009, 127, 319-322.	1.4	26
1397	Synthesis and Characterization of N-doped TiO <sub>2</sub> Nanowires with Visible Light Response. <i>Catalysis Letters</i> , 2009, 129, 507-512.	1.4	31
1398	Aqueous Long-Term Solubility of Titania Nanoparticles and Titanium(IV) Hydrolysis in a Sodium Chloride System Studied by Adsorptive Stripping Voltammetry. <i>Journal of Solution Chemistry</i> , 2009, 38, 1267-1282.	0.6	120
1399	Quest for new materials: Inorganic chemistry plays a crucial role. <i>Journal of Chemical Sciences</i> , 2009, 121, 235-256.	0.7	5
1400	Nanocrystalline TiO <sub>2</sub> thin film electrodes for dye-sensitized solar cell applications. <i>Jom</i> , 2009, 61, 52-57.	0.9	18
1401	A molecular dynamics simulation of the structure of ionic liquid (BMIM <sup>+</sup> /PF <sub>6</sub> <sup>-</sup> )/rutile (110) interface. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1434-1437.	0.8	11
1402	An overview on water splitting photocatalysts. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 343-351.	0.4	14
1403	Synthesis and Characterization of Rutile TiO <sub>2</sub> Nanopowders Doped with Iron Ions. <i>Nanoscale Research Letters</i> , 2009, 4, 518-525.	3.1	96
1404	Shell-Controlled Photoluminescence in CdSe/CNT Nanohybrids. <i>Nanoscale Research Letters</i> , 2009, 4, 1146-52.	3.1	30
1405	New liquid crystal-embedded PVdF-co-HFP-based polymer electrolytes for dye-sensitized solar cell applications. <i>Macromolecular Research</i> , 2009, 17, 963-968.	1.0	20

#	ARTICLE	IF	CITATIONS
1406	A First-Principle Study on Size-Dependent Thermodynamic Properties of Small TiO <sub>2</sub> Nanoclusters. Chinese Journal of Catalysis, 2009, 30, 384-390.	6.9	7
1407	Nanoelectrodes: energy conversion and storage. Materials Today, 2009, 12, 20-27.	8.3	61
1408	Atomic ordering in TiO <sub>2</sub> thin films studied by X-ray reflection spectroscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 1454-1458.	0.7	8
1409	Ultrafast carrier dynamics in semiconductor nanowires. Physica Status Solidi (B): Basic Research, 2009, 246, 1973-1995.	0.7	71
1410	Development of Nano-TiO <sub>2</sub> dye sensitised solar cells on high mobility transparent conducting oxide thin films. Progress in Photovoltaics: Research and Applications, 2009, 17, 265-272.	4.4	32
1411	Shaping Colloidal Rutile into Thermally Stable and Porous Mesoscopic Titania Balls. Small, 2009, 5, 1326-1333.	5.2	28
1412	Selective positioning of organic dyes in a mesoporous inorganic oxide film. Nature Materials, 2009, 8, 665-671.	13.3	240
1413	Long vertically aligned titania nanotubes on transparent conducting oxide for highly efficient solar cells. Nature Nanotechnology, 2009, 4, 592-597.	15.6	727
1414	Atomic-scale mapping of quantum dots formed by droplet epitaxy. Nature Nanotechnology, 2009, 4, 835-838.	15.6	44
1415	Metal Oxides for Dye-Sensitized Solar Cells. Journal of the American Ceramic Society, 2009, 92, 289-301.	1.9	575
1416	Dye-Sensitized Solar Cells Based on TiO <sub>2</sub> Coatings with Dual Size-Scale Porosity. Journal of the American Ceramic Society, 2009, 92, 1921-1925.	1.9	24
1417	Titanium Dioxide Nanomaterials and Their Energy Applications. Chinese Journal of Catalysis, 2009, 30, 839-851.	6.9	110
1418	Neuromelanins Isolated from Different Regions of the Human Brain Exhibit a Common Surface Photoionization Threshold. Photochemistry and Photobiology, 2009, 85, 387-390.	1.3	8
1419	Nanomanufacturing of random branching material architectures. Microelectronic Engineering, 2009, 86, 467-478.	1.1	30
1420	Photoelectrochemical solar cell properties of heteropolytungstic acid-incorporated TiO <sub>2</sub> nanodisc thin films. Electrochemistry Communications, 2009, 11, 1211-1216.	2.3	59
1421	Nanorods and nanolipsticks structured ZnO photoelectrode for dye-sensitized solar cells. Electrochemistry Communications, 2009, 11, 1756-1759.	2.3	25
1422	Electrochemical investigation of thin PEDOT film above an insulating substrate using scanning electrochemical microscopy. Electrochemistry Communications, 2009, 11, 2304-2307.	2.3	10
1423	Enhanced visible light photocurrent generation at surface-modified TiO <sub>2</sub> nanotubes. Electrochimica Acta, 2009, 54, 2640-2646.	2.6	91

#	ARTICLE	IF	CITATIONS
1424	Photo-induced electrochemical functionality of the TiO <sub>2</sub> nanoscale films. <i>Electrochimica Acta</i> , 2009, 54, 3352-3359.	2.6	34
1425	Enhanced electrochemical performance of the counterelectrode of dye sensitized solar cells by sandblasting. <i>Electrochimica Acta</i> , 2009, 54, 5320-5325.	2.6	24
1426	Electrophoretic deposition of nanocrystalline TiO <sub>2</sub> films on Ti substrates for use in flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2009, 54, 4467-4472.	2.6	80
1427	Photophysics of ruthenium(II) complexes carrying amino acids in the ligand 2,2'-bipyridine and intramolecular electron transfer from methionine to photogenerated Ru(III). <i>Inorganica Chimica Acta</i> , 2009, 362, 1629-1636.	1.2	8
1428	Hydrogen energy in changing environmental scenario: Indian context. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7358-7367.	3.8	45
1429	Photoelectrochemical and structural characterization of carbon-doped WO <sub>3</sub> films prepared via spray pyrolysis. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8476-8484.	3.8	161
1430	Study of hydrogen production in light assisted microbial electrolysis cell operated with dye sensitized solar cell. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9297-9304.	3.8	43
1431	Structure and thermal properties of transparent conductive nanoporous F:SnO <sub>2</sub> films. <i>Thin Solid Films</i> , 2009, 517, 4211-4214.	0.8	57
1432	Photoreduction of CO <sub>2</sub> by TiO <sub>2</sub> nanocomposites synthesized through reactive direct current magnetron sputter deposition. <i>Thin Solid Films</i> , 2009, 517, 5641-5645.	0.8	80
1433	Synthesis and photoelectrochemical properties of thin bismuth molybdates film with various crystal phases. <i>Thin Solid Films</i> , 2009, 517, 5813-5818.	0.8	28
1434	Nanoporous TiO <sub>2</sub> thin film based conductometric H <sub>2</sub> sensor. <i>Thin Solid Films</i> , 2009, 518, 1294-1298.	0.8	51
1435	Nanoporous titanium oxide synthesized from anodized Filtered Cathodic Vacuum Arc Ti thin films. <i>Thin Solid Films</i> , 2009, 518, 1180-1184.	0.8	10
1436	Hybrid photovoltaic cells with CdS quantum dot sensitizers fabricated by layer-by-layer deposition of water-soluble components. <i>Thin Solid Films</i> , 2009, 518, 295-298.	0.8	37
1437	Glancing angle deposited titania films for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2009, 518, 1590-1594.	0.8	44
1438	Studies on tin oxide-intercalated polyaniline nanocomposite for ammonia gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 76-84.	4.0	213
1439	An improved method to estimate the equivalent circuit parameters in DSSCs. <i>Solar Energy</i> , 2009, 83, 715-720.	2.9	31
1440	The fabrication of efficiency-improved W-series interconnect type of module by balancing the performance of single cells. <i>Solar Energy</i> , 2009, 83, 2217-2222.	2.9	38
1441	Electrodeposition of (ZnSe:colloidal HgS) composite and their photoelectrochemical characterization. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1202-1207.	3.0	1

#	ARTICLE	IF	CITATIONS
1442	Recent research progress on polymer electrolytes for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1167-1175.	3.0	202
1443	Thiocyanate ligand substitution kinetics of the solar cell dye Z-907 by 3-methoxypropionitrile and 4-tert-butylpyridine at elevated temperatures. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1939-1945.	3.0	87
1444	Dye-sensitized solar cells with a micro-porous TiO <sub>2</sub> electrode and gel polymer electrolytes prepared by in situ cross-link reaction. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2003-2007.	3.0	39
1445	Impedance analysis of nanocarbon DSSC electrodes. <i>Superlattices and Microstructures</i> , 2009, 46, 205-208.	1.4	60
1446	Suspension and solution thermal spray coatings. <i>Surface and Coatings Technology</i> , 2009, 203, 2807-2829.	2.2	302
1447	Synthesis and characterization of self-cleaning cotton fabrics modified by TiO <sub>2</sub> through a facile approach. <i>Surface and Coatings Technology</i> , 2009, 203, 3728-3733.	2.2	133
1448	Chemical reactions on metal oxide surfaces investigated by vibrational spectroscopy. <i>Surface Science</i> , 2009, 603, 1589-1599.	0.8	48
1449	Heterostructured organic interfaces probed by resonant photoemission. <i>Surface Science</i> , 2009, 603, 1542-1556.	0.8	36
1450	Photochemistry on TiO <sub>2</sub> : Mechanisms behind the surface chemistry. <i>Surface Science</i> , 2009, 603, 1605-1612.	0.8	186
1451	InSb/TiO <sub>2</sub> interfaces: Band alignment, ordering and structure dependent HOMO splitting. <i>Surface Science</i> , 2009, 603, 3160-3169.	0.8	7
1452	Synthesis and characterization of stable Co and Cd doped nickel hydroxide nanoparticles for electrochemical applications. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 35-40.	3.8	63
1453	Synthesis of phase- and shape-controlled TiO <sub>2</sub> nanoparticles via hydrothermal process. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 270-274.	2.9	30
1454	Synthesis of nanometer-sized hexagonal disk-shaped ZnO in formic acid using a hydrothermal method and its optical properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2009, 15, 645-648.	2.9	11
1455	Aggregation-induced emission of an aminated silole: A fluorescence probe for monitoring layer-by-layer self-assembling processes of polyelectrolytes. <i>Journal of Luminescence</i> , 2009, 129, 19-23.	1.5	22
1456	A model for spectral diffusion induced by resonant energy migration applied to the 4A <sub>2</sub> → 2E transition of Cr <sup>3+</sup> in [Cr(ox) <sub>3</sub> ] <sup>3-</sup> (ox=C <sub>2</sub> O <sub>4</sub> <sup>2-</sup> ). <i>Journal of Luminescence</i> , 2009, 129, 1901-1904.	1.5	5
1457	Ruthenium complex-cored dendrimers: Shedding light on efficiency trade-offs in dye-sensitized solar cells. <i>Organic Electronics</i> , 2009, 10, 1356-1363.	1.4	34
1458	Synthesis of mesoporous TiO <sub>2</sub> ·xN <sub>x</sub> spheres by template free homogeneous co-precipitation method and their photo-catalytic activity under visible light illumination. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 269-276.	5.0	102
1459	Photosensitization of colloidal TiO <sub>2</sub> nanoparticles with phycocyanin pigment. <i>Journal of Colloid and Interface Science</i> , 2009, 335, 196-202.	5.0	67

#	ARTICLE	IF	CITATIONS
1460	NMR studies of photo-induced chemical exchange. Progress in Nuclear Magnetic Resonance Spectroscopy, 2009, 54, 183-194.	3.9	15
1461	Dye-sensitized solar cells containing polymer film with honey-comb like morphology. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 203, 151-154.	2.0	7
1462	Layer-by-layer TiO <sub>2</sub> films as efficient blocking layers in dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 205, 23-27.	2.0	76
1463	Effect of counter electrode, thickness and sintering temperature of TiO <sub>2</sub> electrode and TBP addition in electrolyte on photovoltaic performance of dye sensitized solar cell using pyronine G (PYR) dye. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 206, 53-63.	2.0	56
1464	In situ photoelectrochemical measurement of phthalic acid on titania. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 208, 97-103.	2.0	6
1465	Preparation of polymer film of micro-porous or island-like structure and its application in dye-sensitized solar cell. Journal of Power Sources, 2009, 188, 319-322.	4.0	12
1466	A simple method to prepare uniform-size nanoparticle TiO <sub>2</sub> electrodes for dye-sensitized solar cells. Journal of Power Sources, 2009, 189, 1256-1263.	4.0	47
1467	A convenient sol-gel route for the synthesis of salicylate-titania nanocomposites having visible absorption and blue luminescence. Journal of Solid State Chemistry, 2009, 182, 1200-1205.	1.4	6
1468	Synthesis of nano-phase TiO <sub>2</sub> crystalline films over premixed stagnation flames. Proceedings of the Combustion Institute, 2009, 32, 1839-1845.	2.4	53
1469	An investigation on the novel structure of dye-sensitized solar cell with integrated photoanode. Renewable Energy, 2009, 34, 1635-1638.	4.3	23
1470	Assessing the use of simple dye-sensitized solar cells for drinking water chlorination by communities with limited resources. Renewable Energy, 2009, 34, 1651-1654.	4.3	5
1471	Lysozyme-mediated formation of protein-silica nano-composites for biosensing applications. Colloids and Surfaces B: Biointerfaces, 2009, 73, 58-64.	2.5	59
1472	Adsorption-/desorption-limited diffusion of porphyrin molecules in nano-porous TiO <sub>2</sub> networks. Chemical Physics Letters, 2009, 467, 358-360.	1.2	9
1473	Enhancing light absorption and carrier transport of P3HT by doping multi-wall carbon nanotubes. Chemical Physics Letters, 2009, 468, 64-68.	1.2	92
1474	Photocatalytic TiO <sub>2</sub> /adsorbent nanocomposites prepared via wet chemical impregnation for wastewater treatment: A review. Applied Catalysis A: General, 2009, 371, 1-9.	2.2	116
1475	Fabrication of crack-free anodic nanoporous titania and its enhanced photoelectrochemical response. Applied Catalysis B: Environmental, 2009, 90, 262-267.	10.8	34
1476	Visible light photocatalytic activity of TiO <sub>2</sub> /D-PVA for MO degradation. Applied Catalysis B: Environmental, 2009, 90, 249-254.	10.8	71
1477	Photo-catalytic H <sub>2</sub> evolution over a series of Keggin-structure heteropoly blue sensitized Pt/TiO <sub>2</sub> under visible light irradiation. Applied Surface Science, 2009, 255, 4378-4383.	3.1	44



#	ARTICLE	IF	CITATIONS
1478	Inelastic neutron scattering study of the coordination of para-amino benzoic acid molecules to the surface of nanocrystalline titania particles. <i>Chemical Physics Letters</i> , 2009, 472, 65-68.	1.2	6
1479	Time-dependent density functional theory study of squaraine dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2009, 475, 49-53.	1.2	82
1480	Stark spectroscopy of charge-transfer transitions in catechol-sensitized TiO <sub>2</sub> nanoparticles. <i>Chemical Physics Letters</i> , 2009, 475, 272-276.	1.2	14
1481	Interaction of molecular oxygen with oxygen vacancies on reduced TiO <sub>2</sub> : Site specific blocking by probe molecules. <i>Chemical Physics Letters</i> , 2009, 477, 340-344.	1.2	42
1482	Cu <sub>2</sub> S-deposited mesoporous NiO photocathode for a solar cell. <i>Chemical Physics Letters</i> , 2009, 477, 345-348.	1.2	32
1483	Influence of Si dopant and SnO <sub>2</sub> interfacial layer on the structure of the spray-deposited Fe <sub>2</sub> O <sub>3</sub> films. <i>Chemical Physics Letters</i> , 2009, 479, 86-90.	1.2	18
1484	Photo-induced charge transfer in defect-free (TiO <sub>2</sub> ) <sub>15</sub> nanoparticles and charge transfer from carotenoid to (TiO <sub>2</sub> ) <sub>15</sub> b nanoparticle in carotenoid-(TiO <sub>2</sub> ) <sub>15</sub> b complex used for solar cell. <i>Chemical Physics Letters</i> , 2009, 480, 265-268.	1.2	2
1485	A novel deep eutectic solvent-based ionic liquid used as electrolyte for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2009, 11, 209-211.	2.3	270
1486	Wet-type Fe <sub>2</sub> O <sub>3</sub> solar cells based on Fe <sub>2</sub> O <sub>3</sub> films prepared by laser ablation: Drastic temperature effect. <i>Electrochemistry Communications</i> , 2009, 11, 2150-2152.	2.3	13
1487	Anatase TiO <sub>2</sub> nanosheet: An ideal host structure for fast and efficient lithium insertion/extraction. <i>Electrochemistry Communications</i> , 2009, 11, 2332-2335.	2.3	228
1488	X-ray diffraction studies of electrochemical graphite intercalation compounds of ionic liquids. <i>Electrochimica Acta</i> , 2009, 54, 5648-5655.	2.6	49
1489	Narrow gap nano-dots growth by droplets heteroepitaxial mode. <i>Infrared Physics and Technology</i> , 2009, 52, 229-234.	1.3	4
1490	Performance characteristics of dye-sensitized solar cells with counter electrode based on NiP-plated glass and titanium plate. <i>Current Applied Physics</i> , 2009, 9, 1005-1008.	1.1	10
1491	Effect of Ag doping on the crystallization and phase transition of TiO <sub>2</sub> nanoparticles. <i>Current Applied Physics</i> , 2009, 9, 1097-1105.	1.1	106
1492	Facile synthesis of tin oxide nanofibres. <i>Current Applied Physics</i> , 2009, 9, e176-e179.	1.1	2
1493	Single wall carbon nanohorns coated with anatase titanium oxide. <i>Carbon</i> , 2009, 47, 1321-1326.	5.4	26
1494	Comparison of the substrate dependent performance of Pt-, Au- and Ag-doped TiO <sub>2</sub> photocatalysts in H <sub>2</sub> -production and in decomposition of various organics. <i>Reaction Kinetics and Catalysis Letters</i> , 2009, 98, 215-225.	0.6	60
1495	Elektronen-Spin-Resonanz "Eine Methode zur Bewertung der Radikalaktivität auf photokatalytischen Implantatoberflächen. <i>Vakuum in Forschung Und Praxis</i> , 2009, 21, 22-29.	0.0	1

#	ARTICLE	IF	CITATIONS
1496	Hydrogen photoproduction by use of photosynthetic organisms and biomimetic systems. Photochemical and Photobiological Sciences, 2009, 8, 148-156.	1.6	86
1497	Photoassisted Overall Water Splitting in a Visible Light-Absorbing Dye-Sensitized Photoelectrochemical Cell. Journal of the American Chemical Society, 2009, 131, 926-927.	6.6	841
1498	Functional Templates for Hybrid Materials with Orthogonal Functionality. Langmuir, 2009, 25, 10202-10208.	1.6	31
1499	Regenerative PbS and CdS Quantum Dot Sensitized Solar Cells with a Cobalt Complex as Hole Mediator. Langmuir, 2009, 25, 7602-7608.	1.6	270
1500	Deposition of an oxomanganese water oxidation catalyst on TiO <sub>2</sub> nanoparticles: computational modeling, assembly and characterization. Energy and Environmental Science, 2009, 2, 230.	15.6	80
1501	Molecular water-oxidation catalysts for photoelectrochemical cells. Dalton Transactions, 2009, , 9374.	1.6	124
1502	Biology and technology for photochemical fuel production. Chemical Society Reviews, 2009, 38, 25-35.	18.7	247
1503	Titania Nanostructures Fabricated by Atomic Layer Deposition Using Spherical Protein Cages. Langmuir, 2009, 25, 13284-13289.	1.6	21
1504	Tailor-made synthesis of poly(3-hexylthiophene) with carboxylic end groups and its application as a polymer sensitizer in solid-state dye-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 4126.	6.7	53
1505	Organic Nanomaterials: Morphological Control for Charge Stabilization and Charge Transport. Chemistry - an Asian Journal, 2009, 4, 806-823.	1.7	25
1506	Post-Modification of <i>meso</i> -Linked Porphyrin Arrays by Iridium and Rhodium Catalyses for Tuning of Energy Gap. Chemistry - an Asian Journal, 2009, 4, 1126-1133.	1.7	11
1507	Efficient Bidirectional Photocurrent Generation by Self-Assembled Monolayer of Penta(aryl)[60]fullerene Phosphonic Acid. Chemistry - an Asian Journal, 2009, 4, 1208-1212.	1.7	23
1508	Di-branched di-anchoring organic dyes for dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 1094.	15.6	188
1509	Influence of Feature Size, Film Thickness, and Silicon Doping on the Performance of Nanostructured Hematite Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2009, 113, 772-782.	1.5	594
1510	TiO <sub>2</sub> Nanotube Arrays: Application to Photoelectrochemical Water Splitting. , 2009, , 149-216.		2
1511	Recent Advances in Sensitized Mesoscopic Solar Cells. Accounts of Chemical Research, 2009, 42, 1788-1798.	7.6	2,502
1512	Fabrication of ZnO/CdS core/shell nanowire arrays for efficient solar energy conversion. Journal of Materials Chemistry, 2009, 19, 5945.	6.7	393
1513	Modern photoelectric and photochemical methods of solar power conversion. Russian Journal of General Chemistry, 2009, 79, 2543-2555.	0.3	1

#	ARTICLE	IF	CITATIONS
1514	Ways to increase the efficiency of solar cells with extremely thin absorption layers. Nanotechnologies in Russia, 2009, 4, 237-243.	0.7	22
1515	A Perspective on Organic Chemistry: Physical Organic Chemistry. Journal of Organic Chemistry, 2009, 74, 8497-8509.	1.7	1
1516	Electron Transfer from Organic Aminophenyl Acid Sensitizers to Titanium Dioxide Nanoparticle Films. Journal of Physical Chemistry C, 2009, 113, 13985-13992.	1.5	26
1517	Photoluminescence quenching of tris-(8-hydroxyquinoline) aluminum thin films at interfaces with metal oxide films of different conductivities. Physical Review B, 2009, 79, .	1.1	35
1518	Influence of TiCl <sub>4</sub> treatment on back contact dye-sensitized solar cells sensitized with black dye. Energy and Environmental Science, 2009, 2, 1205.	15.6	83
1519	Chemical Tuning of the Electronic Properties of Nanostructured Semiconductor Films Formed through Surfactant Templating of Zintl Cluster. Journal of Physical Chemistry C, 2009, 113, 7697-7705.	1.5	23
1520	Growth, Characterization, and Electrochemical Properties of Doped n-Type KTaO <sub>3</sub> Photoanodes. Journal of the Electrochemical Society, 2009, 156, B580.	1.3	31
1521	Femtosecond Transient Absorption of Zinc Porphyrins with Oligo(phenylethynyl) Linkers in Solution and on TiO <sub>2</sub> Films. Journal of Physical Chemistry C, 2009, 113, 11524-11531.	1.5	64
1522	Photocatalysis of Dye-Sensitized TiO <sub>2</sub> Nanoparticles with Thin Overcoat of Al <sub>2</sub> O <sub>3</sub> : Enhanced Activity for H <sub>2</sub> Production and Dechlorination of CCl <sub>4</sub> . Journal of Physical Chemistry C, 2009, 113, 10603-10609.	1.5	146
1523	<i>N</i> -Methyl- <i>N</i> -Allylpyrrolidinium Based Ionic Liquids for Solvent-Free Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 4215-4221.	1.5	43
1524	Photoelectrochemical Behavior of Polychelate Porphyrin Chromophores and Titanium Dioxide Nanotube Arrays for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 2996-3006.	1.5	53
1525	Direct Preparation of Thermally Stable Sn-Incorporated SBA-15 Mesoporous Materials in the Self-Generated Acidic Environment. Journal of Physical Chemistry C, 2009, 113, 15226-15238.	1.5	29
1526	Multifunctional Patchy Particles by Glancing Angle Deposition. Langmuir, 2009, 25, 9057-9063.	1.6	149
1527	Correlation between Bonding Geometry and Band Gap States at Organic~Inorganic Interfaces: Catechol on Rutile TiO <sub>2</sub> (110). Journal of the American Chemical Society, 2009, 131, 980-984.	6.6	169
1528	PbS quantum dots embedded TiO <sub>2</sub> nanofibers for dye-sensitized solar cells. , 2009, , .		0
1529	Quantum Chemical Investigation of Cluster Models for TiO <sub>2</sub> Nanoparticles with Water-Derived Ligand Passivation: Studies of Excess Electron States and Implications for Charge Transport in the Gratzel Cell. Journal of Physical Chemistry C, 2009, 113, 19806-19811.	1.5	32
1530	Anodization of Ti Thin Film Deposited on ITO. Langmuir, 2009, 25, 509-514.	1.6	89
1531	Photoexcitation of a Light-Harvesting Supramolecular Triad: A Time-Dependent DFT Study. Journal of Physical Chemistry B, 2009, 113, 5345-5349.	1.2	41

#	ARTICLE	IF	CITATIONS
1532	Structure and Self Assembly of Pluronic Amphiphiles in Ethylammonium Nitrate and at the Silica Surface. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12201-12213.	1.2	77
1533	Solar Water Oxidation by Composite Catalyst/ $\text{Fe}^{2+}/\text{O}^{3-}$ Photoanodes. <i>Journal of the American Chemical Society</i> , 2009, 131, 6086-6087.	6.6	505
1534	Nearly Monodisperse $\text{CuInS}_2$ Hierarchical Microarchitectures for Photocatalytic $\text{H}_2$ Evolution under Visible Light. <i>Inorganic Chemistry</i> , 2009, 48, 4003-4009.	1.9	153
1535	$\text{TiO}_2/\text{TiSi}_2$ Heterostructures for High-Efficiency Photoelectrochemical $\text{H}_2$ Splitting. <i>Journal of the American Chemical Society</i> , 2009, 131, 2772-2773.	6.6	193
1536	First-Principles Investigations of InN Nonpolar Surface Functionalization. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11323-11328.	1.5	14
1537	High-Efficiency Energy Conversion in a Molecular Triad Connected to Conducting Leads. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21218-21224.	1.5	26
1538	Star-Shaped Multichromophoric Arrays from Bodipy Dyes Grafted on Truxene Core. <i>Journal of the American Chemical Society</i> , 2009, 131, 6108-6110.	6.6	118
1539	Adsorption Configurations and Decomposition Pathways of Boric Acid on $\text{TiO}_2$ Rutile (110) Surface: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3751-3762.	1.5	11
1540	Adsorption Configuration and Dissociative Reaction of $\text{NH}_3$ on Anatase (101) Surface with and without Hydroxyl Groups. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6663-6672.	1.5	20
1541	Indium-Tin Oxide-Based Transparent Conducting Layers for Highly Efficient Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7443-7447.	1.5	35
1542	Formation and Diffusion of Water Dimers on Rutile $\text{TiO}_2$ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6663-6672.	2.9	89
1543	Synergistic effect between anatase and rutile $\text{TiO}_2$ nanoparticles in dye-sensitized solar cells. <i>Dalton Transactions</i> , 2009, , 10078.	1.6	196
1544	Novel Amphiphilic Ruthenium Sensitizer with Hydrophobic Thiophene or Thieno(3,2- <i>b</i> )thiophene-Substituted 2,2'-Dipyridylamine Ligands for Effective Nanocrystalline Dye Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2009, 21, 5719-5726.	3.2	51
1545	ZnO solid-state dye sensitized solar cells using composite electrolyte of poly(3-hexylthiophene-2,5-diyl) and carbon nanotubes. <i>Journal of Renewable and Sustainable Energy</i> , 2009, 1, 033109.	0.8	16
1546	First-Principle Calculations of Solvated Electrons at Protic Solvent/ $\text{TiO}_2$ Interfaces with Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7236-7245.	1.5	19
1547	Conjugation of Selenophene with Bipyridine for a High Molar Extinction Coefficient Sensitizer in Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2009, 48, 2664-2669.	1.9	80
1548	Influence of Temperature and Molecular Structure on Ionic Liquid Solvation Layers. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5961-5966.	1.2	123
1549	The growth of a <i>c</i> -axis highly oriented sandwiched $\text{TiO}_2$ film with superhydrophilic properties without UV irradiation on $\text{SnO}_2$ substrate. <i>Nanotechnology</i> , 2009, 20, 235605.	1.3	23

#	ARTICLE	IF	CITATIONS
1550	Synthesis and Photoelectrochemical Property of Urchin-like Zn/ZnO Core-Shell Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11035-11040.	1.5	73
1551	Density Functional Theory Study of the Adsorption and Reaction of H <sub>2</sub> S on TiO <sub>2</sub> Rutile (110) and Anatase (101) Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20411-20420.	1.5	61
1552	A Solar-Powered Microbial Electrolysis Cell with a Platinum Catalyst-Free Cathode To Produce Hydrogen. <i>Environmental Science &amp; Technology</i> , 2009, 43, 9525-9530.	4.6	119
1553	On the role of Mn(IV) vacancies in the photoreductive dissolution of hexagonal birnessite. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4142-4150.	1.6	87
1554	Dye sensitized solar cells (DSSCs) based on modified iron phthalocyanine nanostructured TiO <sub>2</sub> electrode and PEDOT:PSS counter electrode. <i>Synthetic Metals</i> , 2009, 159, 1325-1331.	2.1	69
1555	Efficient and low cost devices for solar energy conversion: Efficiency and stability of some natural-dye-sensitized solar cells. <i>Synthetic Metals</i> , 2009, 159, 2342-2344.	2.1	53
1556	Electrochemical properties of SnO <sub>2</sub> nanowires prepared by a simple heat treatment of Sn-Ag alloys. <i>Journal of Alloys and Compounds</i> , 2009, 483, 422-424.	2.8	8
1557	Microstructural characterization of the V-doped nano-titania. <i>Journal of Alloys and Compounds</i> , 2009, 482, 256-260.	2.8	12
1558	Synthesis of flower-like CdS nanostructured films and their application in photoelectrochemical solar cells. <i>Journal of Alloys and Compounds</i> , 2009, 487, 653-658.	2.8	52
1559	An Extremely High Molar Extinction Coefficient Ruthenium Sensitizer in Dye-Sensitized Solar Cells: The Effects of $\pi$ -Conjugation Extension. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14559-14566.	1.5	119
1560	Novel Photoanode Structure Templated from Butterfly Wing Scales. <i>Chemistry of Materials</i> , 2009, 21, 33-40.	3.2	211
1561	Accurate calculation of the local density of optical states in inverse-opal photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 987.	0.9	39
1562	A Method for Fabrication of Pyramid-Shaped TiO <sub>2</sub> Nanoparticles with a High {001} Facet Percentage. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12954-12957.	1.5	93
1563	Solvothermal Synthesis and Photoreactivity of Anatase TiO <sub>2</sub> Nanosheets with Dominant {001} Facets. <i>Journal of the American Chemical Society</i> , 2009, 131, 4078-4083.	6.6	1,237
1564	Shape-Controlled Synthesis of Highly Crystalline Titania Nanocrystals. <i>ACS Nano</i> , 2009, 3, 3737-3743.	7.3	399
1565	Synthesis of Hierarchically Grown ZnO@NT-WS <sub>2</sub> Nanocomposites. <i>Chemistry of Materials</i> , 2009, 21, 5382-5387.	3.2	16
1566	Optical Properties and Photocatalytic Performances of Pd Modified ZnO Samples. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18761-18767.	1.5	127
1567	Zn <sup>II</sup> -Zn Porphyrin Dimer-Sensitized Solar Cells: Toward 3-D Light Harvesting. <i>Journal of the American Chemical Society</i> , 2009, 131, 15621-15623.	6.6	177

#	ARTICLE	IF	CITATIONS
1568	Enhanced Photoelectrocatalytic Activity of Methanol Oxidation on TiO <sub>2</sub> -Decorated Nanoporous Gold. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16138-16143.	1.5	89
1569	Charge Trapping in Imidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5582-5592.	1.2	86
1570	UV Raman Spectroscopic Study on TiO <sub>2</sub> . II. Effect of Nanoparticle Size on the Outer/Inner Phase Transformations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1698-1704.	1.5	114
1571	Mechanisms of Low-Power Noncoherent Photon Upconversion in Metalloporphyrin <sup>+</sup> Organic Blue Emitter Systems in Solution. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8548-8556.	1.1	75
1572	Predicting the Band Structure of Mixed Transition Metal Oxides: Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2014-2021.	1.5	116
1573	Three-dimensional electrodes for dye-sensitized solar cells: synthesis of indium <sup>+</sup> tin-oxide nanowire arrays and ITO/TiO <sub>2</sub> core <sup>+</sup> shell nanowire arrays by electrophoretic deposition. <i>Nanotechnology</i> , 2009, 20, 055601.	1.3	72
1574	Fabrication of Highly-Ordered TiO <sub>2</sub> Nanotube Arrays and Their Use in Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2009, 9, 601-606.	4.5	288
1575	Doubly <sup>+</sup> 2-Functionalized Meso <sup>+</sup> Meso Directly Linked Porphyrin Dimer Sensitizers for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21956-21963.	1.5	78
1576	Sustained Water Oxidation by [Mn <sub>4</sub> O <sub>4</sub> ] <sup>7+</sup> Core Complexes Inspired by Oxygenic Photosynthesis. <i>Inorganic Chemistry</i> , 2009, 48, 7269-7279.	1.9	83
1577	Synthesis and enhanced ethanol sensing characteristics of <sup>+</sup> Fe <sub>2</sub> O <sub>3</sub> SnO <sub>2</sub> core <sup>+</sup> shell nanorods. <i>Nanotechnology</i> , 2009, 20, 045502.	1.3	119
1578	Molecular design of triarylamine-based organic dyes for efficient dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2009, 33, 868.	1.4	43
1579	Evidence of Localized Water Molecules and Their Role in the Gasochromic Effect of WO <sub>3</sub> Nanowire Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15877-15881.	1.5	99
1580	Band-to-Band Visible-Light Photon Excitation and Photoactivity Induced by Homogeneous Nitrogen Doping in Layered Titanates. <i>Chemistry of Materials</i> , 2009, 21, 1266-1274.	3.2	284
1581	Gold Nanoparticles on Mesoporous Interparticle Networks of Titanium Dioxide Nanocrystals for Enhanced Photonic Efficiencies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7429-7435.	1.5	193
1582	Bioinspired Preparation of Ultrathin SiO <sub>2</sub> Shell on ZnO Nanowire Array for Ultraviolet-Durable Superhydrophobicity. <i>Langmuir</i> , 2009, 25, 13619-13624.	1.6	53
1583	Prolonged Light and Thermal Stress Effects on Industrial Dye-Sensitized Solar Cells: A Micro-Raman Investigation on the Long-Term Stability of Aged Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9412-9422.	1.5	65
1584	Self-Organized Oxide Nanotube Layers on Titanium and Other Transition Metals. <i>Nanostructure Science and Technology</i> , 2009, , 435-466.	0.1	6
1585	Supramolecular-Templated Thick Mesoporous Titania Films for Dye-Sensitized Solar Cells: Effect of Morphology on Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2789-2795.	4.0	52

#	ARTICLE	IF	CITATIONS
1586	Controlling Atomic Layer Deposition of TiO <sub>2</sub> in Aerogels through Surface Functionalization. <i>Chemistry of Materials</i> , 2009, 21, 1989-1992.	3.2	30
1587	Fabrication of Polymer Microspheres Using Titania as a Photocatalyst and Pickering Stabilizer. <i>Langmuir</i> , 2009, 25, 4443-4449.	1.6	58
1588	Recent Advances in the Use of TiO <sub>2</sub> Nanotube and Nanowire Arrays for Oxidative Photoelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6327-6359.	1.5	776
1589	High efficiency and stable dye-sensitized solar cells with an organic chromophore featuring a binary $\pi$ -conjugated spacer. <i>Chemical Communications</i> , 2009, , 2198.	2.2	550
1590	Highly Efficient Light-Harvesting Ruthenium Sensitizer for Thin-Film Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2009, 3, 3103-3109.	7.3	1,210
1591	Charge-Transfer-Induced Surface-Enhanced Raman Scattering on Ag <sup>+</sup> -TiO <sub>2</sub> Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16226-16231.	1.5	228
1592	Development of Bioinspired Mn <sub>4</sub> O <sub>4</sub> ·Cubane Water Oxidation Catalysts: Lessons from Photosynthesis. <i>Accounts of Chemical Research</i> , 2009, 42, 1935-1943.	7.6	510
1593	A spectroscopic and DFT study of thiophene-substituted metalloporphyrins as dye-sensitized solar cell dyes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5598.	1.3	71
1594	High-Performance TiO <sub>2</sub> Photoanode with an Efficient Electron Transport Network for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16277-16282.	1.5	122
1595	On the Viability of Cyclometalated Ru(II) Complexes for Light-Harvesting Applications. <i>Inorganic Chemistry</i> , 2009, 48, 9631-9643.	1.9	224
1596	Nb-Doped TiO <sub>2</sub> : A New Compact Layer Material for TiO <sub>2</sub> Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6878-6882.	1.5	210
1597	Suspensions of modified TiO <sub>2</sub> nanoparticles with supreme UV filtering ability,. <i>Journal of Materials Chemistry</i> , 2009, 19, 8176.	6.7	16
1598	Efficient Dye-Sensitized Solar Cells with Catalytic Multiwall Carbon Nanotube Counter Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1145-1149.	4.0	446
1599	Iodine/Iodide-Free Dye-Sensitized Solar Cells. <i>Accounts of Chemical Research</i> , 2009, 42, 1827-1838.	7.6	317
1600	Photo-induced effects on self-organized TiO <sub>2</sub> nanotube arrays: the influence of surface morphology. <i>Nanotechnology</i> , 2009, 20, 045603.	1.3	82
1601	Single nanowire photovoltaics. <i>Chemical Society Reviews</i> , 2009, 38, 16-24.	18.7	522
1602	Synergetic Codoping in Fluorinated Ti <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10712-10717.	1.5	82
1603	Flame Synthesis of Ball-in-Shell Structured TiO <sub>2</sub> Nanospheres. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 735-739.	1.8	35

#	ARTICLE	IF	CITATIONS
1604	Characterization of Fe-TiO <sub>2</sub> films synthesized by sol-gel method for application in energy conversion devices. Proceedings of SPIE, 2009, , .	0.8	2
1605	Growth of Metal Oxide Nanowires from Supercooled Liquid Nanodroplets. Nano Letters, 2009, 9, 4138-4146.	4.5	70
1606	Titania polymorphs derived from crystalline titanium diboride. CrystEngComm, 2009, 11, 2677.	1.3	42
1607	Controlled Fabrication of Multiwall Anatase TiO <sub>2</sub> Nanotubular Architectures. Chemistry of Materials, 2009, 21, 2574-2576.	3.2	51
1608	Interfacial Nanostructuring on the Performance of Polymer/TiO <sub>2</sub> Nanorod Bulk Heterojunction Solar Cells. Journal of the American Chemical Society, 2009, 131, 3644-3649.	6.6	286
1609	Self-Organized Anodic TiO <sub>2</sub> Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. Chemistry of Materials, 2009, 21, 662-672.	3.2	146
1610	Pt Nanoparticles Supported on TiO <sub>2</sub> Colloidal Spheres with Nanoporous Surface: Preparation and Use as an Enhancing Material for Biosensing Applications. Journal of Physical Chemistry C, 2009, 113, 13023-13028.	1.5	61
1611	Solar Water Splitting Using Powdered Photocatalysts Driven by Z-Schematic Interparticle Electron Transfer without an Electron Mediator. Journal of Physical Chemistry C, 2009, 113, 17536-17542.	1.5	432
1612	Design and synthesis of a novel anchoring ligand for highly efficient thin film dye-sensitized solar cells. Chemical Communications, 2009, , 7146.	2.2	42
1613	Formation of various TiO <sub>2</sub> nanostructures from electrochemically anodized titanium. Journal of Materials Chemistry, 2009, 19, 3682.	6.7	102
1614	Dye-Sensitized Solar Cells with a High Absorptivity Ruthenium Sensitizer Featuring a 2-(Hexylthio)thiophene Conjugated Bipyridine. Journal of Physical Chemistry C, 2009, 113, 6290-6297.	1.5	558
1615	WO <sub>3</sub> ~Fe <sub>2</sub> O <sub>3</sub> Photoanodes for Water Splitting: A Host Scaffold, Guest Absorber Approach. Chemistry of Materials, 2009, 21, 2862-2867.	3.2	455
1616	Design of Narrow-Gap $\text{TiO}_2$ Passivated Codoping Approach for Enhanced Photoelectrochemical Activity. Physical Review Letters, 2009, 102, 036402.	2.9	728
1617	Spontaneous Dipole Alignment in Films of $\text{N}_2\text{O}$ . Physical Review Letters, 2009, 102, 073003.	2.9	43
1618	Coaxial Group III~Nitride Nanowire Photovoltaics. Nano Letters, 2009, 9, 2183-2187.	4.5	371
1619	Impact of Different Electrolytes on Photocatalytic Water Splitting. Journal of the Electrochemical Society, 2009, 156, H346.	1.3	39
1620	Hybrid Silver Nanowire/Titanium Oxides Nanocomposites as Anode for Dye-Sensitized Solar Cell Application. Journal of the Chinese Chemical Society, 2009, 56, 1244-1249.	0.8	16
1621	Dye-Sensitized Solar Cells Based on Organic Sensitizers with Different Conjugated Linkers: Furan, Bifuran, Thiophene, Bithiophene, Selenophene, and Biselenophene. Journal of Physical Chemistry C, 2009, 113, 7469-7479.	1.5	201



#	ARTICLE	IF	CITATIONS
1622	Self-Organizing Functional Materials via Ionic Self Assembly: Porphyrins H- and J-Aggregates on Synthetic Chrysotile Nanotubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 6920-6921.	6.6	60
1623	Platinum Nanoparticle Decorated Silicon Nanowires for Efficient Solar Energy Conversion. <i>Nano Letters</i> , 2009, 9, 3704-3709.	4.5	248
1624	Mesoporous sandwiches: towards mesoporous multilayer films of crystalline metal oxides. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3648.	1.3	12
1625	TiO <sub>2</sub> ~Nafion Photoelectrode Hybridized with Carbon Nanotubes for Sensitized Photochemical Activity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20974-20979.	1.5	19
1626	Highly Thermal Stable and Highly Crystalline Anatase TiO <sub>2</sub> for Photocatalysis. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5423-5428.	4.6	103
1627	Spectroscopic Investigation of the Anatase-to-Rutile Transformation of Sol~Gel-Synthesized TiO <sub>2</sub> Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16151-16157.	1.5	208
1628	Efficient Promotion of Anatase TiO <sub>2</sub> Photocatalysis via Bifunctional Surface-Terminating Ti~O~B~N Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12317-12324.	1.5	115
1629	Fabrication of Titanium-Doped Indium Oxide Films for Dye-Sensitized Solar Cell Application Using Reactive RF Magnetron Sputter Method. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 1586-1592.	0.6	35
1630	Band Gap Narrowing of Titanium Oxide Semiconductors by Noncompensated Anion-Cation Codoping for Enhanced Visible-Light Photoactivity. <i>Physical Review Letters</i> , 2009, 103, 226401.	2.9	347
1631	Stability of Pt nanoparticles and enhanced photocatalytic performance in mesoporous Pt-(anatase/TiO <sub>2</sub> (B)) nanoarchitecture. <i>Journal of Materials Chemistry</i> , 2009, 19, 7055.	6.7	72
1632	Effects of Electrode Structure on Photoelectrochemical Properties of ZnO Electrodes Modified with Porphyrin~Fullerene Composite Layers with an Intervening Fullerene Monolayer. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10819-10828.	1.5	20
1633	Dioxygen and Water Activation Processes on Multi-Ru-Substituted Polyoxometalates: Comparison with the ~Blue-Dimer~Water Oxidation Catalyst. <i>Journal of the American Chemical Society</i> , 2009, 131, 6844-6854.	6.6	88
1634	TiO <sub>2</sub> -Protected Photoelectrochemical Tandem Cu(In,Ga)Se <sub>2</sub> Thin Film Membrane for Light-Induced Water Splitting and Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20980-20989.	1.5	35
1635	Size-dependent oscillator strength and quantum efficiency of CdSe quantum dots controlled via the local density of states. <i>Physical Review B</i> , 2009, 79, .	1.1	89
1636	Explosive Crystallization in Atomic Layer Deposited Mixed Titanium Oxides. <i>Crystal Growth and Design</i> , 2009, 9, 2974-2978.	1.4	39
1637	Volume versus surface-mediated recombination in anatase TiO <sub>2</sub> nanoparticles. <i>Journal of Applied Physics</i> , 2009, 106, 053516.	1.1	52
1638	Growth of CdS Nanorod-Coated TiO <sub>2</sub> Nanowires on Conductive Glass for Photovoltaic Applications. <i>Crystal Growth and Design</i> , 2009, 9, 4519-4523.	1.4	94
1639	Temperature-Dependent Growth of Self-Assembled Hematite (~Fe <sub>2</sub> O <sub>3</sub> ) Nanotube Arrays: Rapid Electrochemical Synthesis and Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16293-16298.	1.5	194

#	ARTICLE	IF	CITATIONS
1640	High Molar Extinction Coefficient Ruthenium Sensitizers for Thin Film Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 1998-2003.	1.5	61
1641	Organic Dyes Containing Furan Moiety for High-Performance Dye-Sensitized Solar Cells. Organic Letters, 2009, 11, 97-100.	2.4	198
1642	Surface Modification of Colloidal TiO <sub>2</sub> Nanoparticles with Bidentate Benzene Derivatives. Journal of Physical Chemistry C, 2009, 113, 12645-12652.	1.5	203
1643	One-Dimensional CdS/±Fe <sub>2</sub> O <sub>3</sub> and CdS/Fe <sub>3</sub> O <sub>4</sub> Heterostructures: Epitaxial and Nonepitaxial Growth and Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 14119-14125.	1.5	125
1644	Size-dependent ultraviolet luminescence and low-field electron emission of TiO <sub>2</sub> nanodots formed by phase-separation-induced self-assembly. Journal Physics D: Applied Physics, 2009, 42, 105414.	1.3	18
1645	Structurally Simple Dipolar Organic Dyes Featuring 1,3-Cyclohexadiene Conjugated Unit for Dye-Sensitized Solar Cells. Organic Letters, 2009, 11, 377-380.	2.4	66
1646	A simple strategy for improving the energy conversion of multilayered CdTe quantum dot-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 2349.	6.7	90
1647	Synthesis of rutile“anatase core“shell structured TiO <sub>2</sub> for photocatalysis. Journal of Materials Chemistry, 2009, 19, 6590.	6.7	112
1648	The anodization voltage influence on the properties of TiO <sub>2</sub> nanotubes grown by electrochemical oxidation. Nanotechnology, 2009, 20, 225602.	1.3	50
1649	Solar energy conversion in a photoelectrochemical biofuel cell. Dalton Transactions, 2009, , 9979.	1.6	59
1650	Optimization the solid-state electrolytes for dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 283-291.	15.6	85
1651	First principles study of the photo-oxidation of water on tungsten trioxide (WO <sub>3</sub> ). Journal of Chemical Physics, 2009, 130, 114701.	1.2	105
1652	Stability and Electronic Properties of TiO <sub>2</sub> Nanostructures With and Without B and N Doping. Journal of Physical Chemistry C, 2009, 113, 12301-12308.	1.5	102
1653	Clay Nanoparticle-Supported Single-Molecule Fluorescence Spectroelectrochemistry. Nano Letters, 2009, 9, 655-658.	4.5	52
1654	Photo-electrochemical Properties of Thin-Film InVO <sub>4</sub> Photoanodes: the Role of Deep Donor States. Journal of Physical Chemistry C, 2009, 113, 19351-19360.	1.5	48
1655	Enhanced photovoltaic performance by synergism of light-cultivation and electronic localization for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry, 2009, 19, 7036.	6.7	42
1656	Template-free synthesis of closed-microporous hybrid and its application in quasi-solid-state dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 524.	15.6	66
1657	High molar extinction coefficient amphiphilic ruthenium sensitizers for efficient and stable mesoscopic dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 770.	15.6	37

#	ARTICLE	IF	CITATIONS
1658	Observation of All the Intermediate Steps of a Chemical Reaction on an Oxide Surface by Scanning Tunneling Microscopy. ACS Nano, 2009, 3, 517-526.	7.3	101
1659	Size-controlled electrochemical synthesis and properties of SnO <sub>2</sub> nanotubes. Nanotechnology, 2009, 20, 185602.	1.3	79
1660	Characteristics of ultraviolet photoluminescence from high quality tin oxide nanowires. Applied Physics Letters, 2009, 95, 061908.	1.5	73
1661	Synthesis of Angstrom-Scale Anatase Titania Atomic Wires. ACS Nano, 2009, 3, 1025-1031.	7.3	78
1662	Lamellar Envelopes of Semiconductor Nanocrystals. Journal of the American Chemical Society, 2009, 131, 10182-10188.	6.6	14
1663	Energetic and electronic properties of X- (Si, Ge, Sn, Pb) doped TiO <sub>2</sub> from first-principles. Physical Chemistry Chemical Physics, 2009, 11, 8165.	1.3	78
1664	Imaging perylene derivatives on rutileTiO <sub>2</sub> (110)by noncontact atomic force microscopy. Physical Review B, 2009, 79, .	1.1	39
1665	The electronic structure of oxygen atom vacancy and hydroxyl impurity defects on titanium dioxide (110) surface. Journal of Chemical Physics, 2009, 130, 124502.	1.2	197
1666	Room temperature nano quantum engineering. , 2009, , .		0
1667	Extension of Ï€-conjugation length along the Qy axis of a chlorophyll a derivative for efficient dye-sensitized solar cells. Chemical Communications, 2009, , 1523.	2.2	72
1668	Exciton diffusion controlled quantum efficiency in hybrid dye sensitized solar cells. Physical Chemistry Chemical Physics, 2009, 11, 1604.	1.3	7
1669	Hierarchical macro/mesoporous TiO <sub>2</sub> /SiO <sub>2</sub> and TiO <sub>2</sub> /ZrO <sub>2</sub> nanocomposites for environmental photocatalysis. Energy and Environmental Science, 2009, 2, 872.	15.6	147
1670	Improved photoelectrochemical performance of Ti-doped Ï±-Fe <sub>2</sub> O <sub>3</sub> thin films by surface modification with fluoride. Chemical Communications, 2009, , 2652.	2.2	150
1671	Spectroelectrochemical properties of homo- and heteroleptic ruthenium and osmium binuclear complexes: intercomponent communication as a function of energy differences between HOMO levels of bridge and metal centres. Dalton Transactions, 2009, , 4146.	1.6	17
1672	Electrical transport and photovoltaic effects of core-shell CuO/C60nanowire heterostructure. Nanotechnology, 2009, 20, 065203.	1.3	50
1673	Comparative Study of Tungsten Monocarbide and Platinum as Counter Electrodes in Polysulfide-Based Photoelectrochemical Solar Cells. Journal of the Electrochemical Society, 2009, 156, B962.	1.3	30
1674	Ethanol vapor processing of titania nanotube array films: enhanced crystallization and photoelectrochemical performance. Journal of Materials Chemistry, 2009, 19, 3895.	6.7	14
1675	Study of sol-gel derived porous ZnO photoelectrode for the application of dye-sensitized solar cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 1047-1051.	0.9	16

#	ARTICLE	IF	CITATIONS
1676	A TiO <sub>2</sub> nanostructure transformation: from ordered nanotubes to nanoparticles. Nanotechnology, 2009, 20, 405610.	1.3	30
1677	Spontaneous construction of photoactive hollow TiO <sub>2</sub> microspheres and chains. Nanotechnology, 2009, 20, 325606.	1.3	73
1678	Tuning the Energy Level of Organic Sensitizers for High-Performance Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 2966-2973.	1.5	134
1679	Synthesis of Anatase TiO <sub>2</sub> Nanocrystals with Exposed {001} Facets. Nano Letters, 2009, 9, 2455-2459.	4.5	380
1680	PHOTOELECTROCHEMICAL CELLS   Overview. , 2009, , 1-9.		6
1681	Janus Nanostructures Based on Au~TiO <sub>2</sub> Heterodimers and Their Photocatalytic Activity in the Oxidation of Methanol. ACS Applied Materials & Interfaces, 2009, 1, 2060-2065.	4.0	120
1682	Polymer Semiconductors for Artificial Photosynthesis: Hydrogen Evolution by Mesoporous Graphitic Carbon Nitride with Visible Light. Journal of the American Chemical Society, 2009, 131, 1680-1681.	6.6	1,618
1683	Energetics and diffusion of intrinsic surface and subsurface defects on anatase TiO <sub>2</sub> (101). Journal of Chemical Physics, 2009, 131, 054703.	1.2	151
1684	Systematic Manipulation of the Light-Harvesting Properties for Tridentate Cyclometalated Ruthenium(II) Complexes. Inorganic Chemistry, 2009, 48, 9644-9652.	1.9	90
1685	Combined QM/MM and Classical Molecular Dynamics Study of [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> in Water. Journal of Physical Chemistry B, 2009, 113, 7737-7744.	1.2	61
1686	Changing the physical and chemical properties of titanium oxynitrides $\text{TiN}_{1-x}$ by changing the composition. Physical Review B, 2009, 80, .	1.1	48
1687	Photoelectrocatalytic materials for environmental applications. Journal of Materials Chemistry, 2009, 19, 5089.	6.7	880
1688	Properties of hydrogen and hydrogenâ€‘vacancy complexes in the rutile phase of titanium dioxide. Physical Review B, 2009, 80, .	1.1	60
1689	Surface Area, Pore Size, and Particle Size Engineering of Titania with Seeding Technique and Phosphate Modification. Journal of Physical Chemistry C, 2009, 113, 13750-13757.	1.5	30
1690	Organic photovoltaics. Energy and Environmental Science, 2009, 2, 251.	15.6	1,142
1691	Random walk numerical simulation for hopping transport at finite carrier concentrations: diffusion coefficient and transport energy concept. Physical Chemistry Chemical Physics, 2009, 11, 10359.	1.3	55
1692	Various-Shaped Uniform Mn <sub>3</sub> O <sub>4</sub> Nanocrystals Synthesized at Low Temperature in Air Atmosphere. Chemistry of Materials, 2009, 21, 2272-2279.	3.2	135
1693	Electrochemistry, Nanomaterials, and Nanostructures. Nanostructure Science and Technology, 2009, , 81-149.	0.1	4

#	ARTICLE	IF	CITATIONS
1694	A new dual-purpose ultrahigh vacuum infrared spectroscopy apparatus optimized for grazing-incidence reflection as well as for transmission geometries. Review of Scientific Instruments, 2009, 80, 113108.	0.6	71
1695	A Computational Study on the Adsorption Configurations and Reactions of Phosphorous Acid on TiO <sub>2</sub> Anatase (101) and Rutile (110) Surfaces. Journal of Physical Chemistry C, 2009, 113, 8394-8406.	1.5	12
1696	A Combined Experimental and Computational Investigation of Anthracene Based Sensitizers for DSSC: Comparison of Cyanoacrylic and Malonic Acid Electron Withdrawing Groups Binding onto the TiO <sub>2</sub> Anatase (101) Surface. Journal of Physical Chemistry C, 2009, 113, 20117-20126.	1.5	190
1697	Effects of Porphyrin Substituents and Adsorption Conditions on Photovoltaic Properties of Porphyrin-Sensitized TiO <sub>2</sub> Cells. Journal of Physical Chemistry C, 2009, 113, 18406-18413.	1.5	143
1698	Adsorption of Phosphonic Acid at the TiO <sub>2</sub> Anatase (101) and Rutile (110) Surfaces. Journal of Physical Chemistry C, 2009, 113, 5730-5740.	1.5	155
1699	Efficient Electron Transfer Ruthenium Sensitizers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 2618-2623.	1.5	48
1700	Employ a bishienothiophene linker to construct an organic chromophore for efficient and stable dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 92-95.	15.6	251
1701	Charge Separation via Strain in Silicon Nanowires. Nano Letters, 2009, 9, 2418-2422.	4.5	131
1702	Interfacial energy levels and related properties of atomic-layer-deposited Al <sub>2</sub> O <sub>3</sub> films on nanoporous TiO <sub>2</sub> electrodes of dye-sensitized solar cells. Nanotechnology, 2009, 20, 305201.	1.3	46
1703	Surface and subsurface oxygen vacancies in anatase $\text{TiO}_2$ differences with rutile. Physical Review B, 2009, 79, .	1.1	274
1704	Quaternary Phosphonium Iodides as Organic Iodide Sources for Dye-Sensitized Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 529-531.	0.1	4
1705	Nanoparticle Based Multilayers as Multifunctional Optical Coatings. Materials Research Society Symposia Proceedings, 2009, 1188, 15.	0.1	0
1706	Gold nanoparticles bind to porphyrins. A potential dye-sensitized solar cell. Journal of Physics: Conference Series, 2009, 182, 012048.	0.3	0
1707	A Highly Efficient Dye-sensitized Solar Cell Based on a Triarylamine-functionalized Ruthenium Dye. Chemistry Letters, 2009, 38, 44-45.	0.7	16
1708	Visible-light Energy Storage by Ti <sup>3+</sup> in TiO <sub>2</sub> /Cu <sub>2</sub> O Bilayer Film. Chemistry Letters, 2009, 38, 1154-1155.	0.7	38
1709	Interface Modification of Dye-sensitized Solar Cells with Pivalic Acid to Enhance the Open-circuit Voltage. Chemistry Letters, 2009, 38, 322-323.	0.7	19
1710	Preparation and photoelectric properties of Fe-doped mesoporous TiO <sub>2</sub> thick films used in DSSC. , 2009, , .		0
1712	Synthesis and Structure of Novel Ru(II) - Me Complexes and their Activity Towards Nitrile Hydrolysis: An Examination of Ligand Effects. Australian Journal of Chemistry, 2009, 62, 1675.	0.5	11

#	ARTICLE	IF	CITATIONS
1713	The influence of light intensity, active area, and excitation wavelength on the temporal response of a dye sensitized solar cell. Proceedings of SPIE, 2009, , .	0.8	2
1714	Effects of Anodic Titanium Oxide Nanotube Arrays on Dye- $\epsilon$ Sensitized Solar Cells. Journal of the Chinese Chemical Society, 2010, 57, 1176-1179.	0.8	4
1715	High-performance dye-sensitized solar cells based on solvent-free electrolytes produced from eutectic melts. , 2010, , 33-37.		0
1716	Morphologic Characterization of Anodic Titania Nanotube Arrays for Dye- $\epsilon$ Sensitized Solar Cells. Journal of the Chinese Chemical Society, 2010, 57, 1147-1150.	0.8	2
1717	Synthesis and Characterization of Novel Heteroleptic Ruthenium Complexes for Dye- $\epsilon$ Sensitized Solar Cells. Journal of the Chinese Chemical Society, 2010, 57, 1151-1156.	0.8	5
1718	Low cost method to obtain counter electrode for dye sensitised solar cells. Materials Research Innovations, 2010, 14, 410-413.	1.0	4
1719	Enhancement in the photovoltaic performance of a dye-sensitized solar cell by an optimized ZnO barrier layer. Physica Scripta, 2010, T139, 014029.	1.2	7
1720	Characteristics of Zinc Oxide Crystallites Deposited on ITO for Dye- $\epsilon$ Sensitized Solar Cells. Journal of the Chinese Chemical Society, 2010, 57, 1200-1203.	0.8	2
1721	High-efficient dye-sensitized solar cell based on novel TiO <sub>2</sub> nanorod/nanoparticle bilayer electrode. Nanotechnology, Science and Applications, 2010, 3, 45.	4.6	41
1723	The influence of substrate temperature on the electrical and optical properties of titanium oxide thin films prepared by d.c. reactive magnetron sputtering. Proceedings of SPIE, 2010, , .	0.8	0
1724	Nanoionics: ion transport and electrochemical storage in confined systems. , 2010, , 160-170.		927
1725	Dye-sensitized Solar Cells with Halide-bridged Mixed-valence Cu(I)- $\epsilon$ Cu(II) Coordination Polymers with Hexamethylenedithiocarbamate Ligand. Chemistry Letters, 2010, 39, 792-793.	0.7	24
1726	Facile One-Step Synthesis of Double-Shelled CeO <sub>2</sub> Hollow Spheres and Their Optical and Catalytic Properties. Bulletin of the Chemical Society of Japan, 2010, 83, 1455-1461.	2.0	11
1727	Resolution of 1,2,3,3a,4,8b-Hexahydrocyclopenta[ <i>b</i> ]indole via Diastereomeric Salt Formation with <i>N</i> -Tosyl- <i>R</i> -phenylglycine. Chemistry Letters, 2010, 39, 968-969.	0.7	0
1728	Dye-sensitized solar cells: Present state and prospects for future development. Thermal Engineering (English Translation of Teploenergetika), 2010, 57, 969-975.	0.4	7
1729	Correlation between the $E_g$ (1) oscillation frequency and half-width of the (101) peak in the X-ray diffraction pattern of TiO <sub>2</sub> anatase nanoparticles. Technical Physics, 2010, 55, 141-143.	0.2	7
1730	Phase transformations in nanostructural anatase TiO <sub>2</sub> under shock compression conditions studied by Raman spectroscopy. Technical Physics Letters, 2010, 36, 841-843.	0.2	17
1731	Efficient Semiconductor-Sensitized Solar Cells Based on Poly(3-hexylthiophene)@CdSe@ZnO Core-Shell Nanorod Arrays. Journal of Physical Chemistry C, 2010, 114, 8622-8625.	1.5	60

#	ARTICLE	IF	CITATIONS
1732	Fabrication of highly efficient flexible dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2010, 504, S435-S438.	2.8	49
1733	Improved Vapor Sensitivity by Rationally Designing Fluorescent Turn-on Sensors. <i>Analytical Chemistry</i> , 2010, 82, 6487-6494.	3.2	8
1734	Correlating Dye Adsorption Behavior with the Open-Circuit Voltage of Triphenylamine-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10992-10998.	1.5	95
1735	Beyond Photovoltaics: Semiconductor Nanoarchitectures for Liquid-Junction Solar Cells. <i>Chemical Reviews</i> , 2010, 110, 6664-6688.	23.0	716
1736	Nanostructured cobalt and manganese oxide clusters as efficient water oxidation catalysts. <i>Energy and Environmental Science</i> , 2010, 3, 1018.	15.6	488
1737	Water electrolysis and photoelectrolysis on electrodes engineered using biological and bio-inspired molecular systems. <i>Energy and Environmental Science</i> , 2010, 3, 727.	15.6	192
1738	Approaches Toward Efficient and Stable Electron Extraction Contact in Organic Photovoltaic Cells: Inspiration from Organic Light-Emitting Diodes. <i>Electronic Materials Letters</i> , 2010, 6, 41-50.	1.0	42
1739	Novel ZnO-Based Film with Double Light-Scattering Layers as Photoelectrodes for Enhanced Efficiency in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2010, 22, 928-934.	3.2	172
1740	Hierarchical ZnO Nanowire~Nanosheet Architectures for High Power Conversion Efficiency in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2776-2782.	1.5	220
1741	Materials, Interfaces, and Photon Confinement in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14582-14591.	1.2	76
1742	Strain versus Dislocation Model for Understanding the Heteroepitaxial Growth of Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2082-2088.	1.5	22
1743	Plasmon-Assisted Photocurrent Generation from Visible to Near-Infrared Wavelength Using a Au-Nanorods/TiO <sub>2</sub> Electrode. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2031-2036.	2.1	425
1744	Photoelectrocatalysis: principles, nanoemitter applications and routes to bio-inspired systems. <i>Energy and Environmental Science</i> , 2010, 3, 748.	15.6	88
1745	Synergistic Effect of CdSe Quantum Dot Sensitization and Nitrogen Doping of TiO <sub>2</sub> Nanostructures for Photoelectrochemical Solar Hydrogen Generation. <i>Nano Letters</i> , 2010, 10, 478-483.	4.5	474
1746	D-Ë-A Sensitizers for Dye-Sensitized Solar Cells: Linear vs Branched Oligothiophenes. <i>Chemistry of Materials</i> , 2010, 22, 1836-1845.	3.2	144
1747	1-alkyl-1H-imidazole-Based Dipolar Organic Compounds for Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2010, 5, 87-96.	1.7	77
1748	Interfacial Behavior of Benzoic Acid and Phenylphosphonic Acid on Nanocrystalline TiO <sub>2</sub> Surfaces. <i>Chemistry - an Asian Journal</i> , 2010, 5, 852-858.	1.7	16
1749	Photocurrent Generation by Polymeric Carbon Nitride Solids: An Initial Step towards a Novel Photovoltaic System. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1307-1311.	1.7	128

#	ARTICLE	IF	CITATIONS
1750	Benzothiadiazole Containing D $\pi$ - $\pi$ A Conjugated Compounds for Dye-Sensitized Solar Cells: Synthesis, Properties, and Photovoltaic Performances. Chemistry - an Asian Journal, 2010, 5, 1911-1917.	1.7	82
1751	Self-energy and excitonic effects in the electronic and optical properties of $\text{TiO}_2$ phases. Physical Review B, 2010, 82, .	1.1	236
1752	Dye-Sensitized Solar Cells. Chemical Reviews, 2010, 110, 6595-6663.	23.0	8,072
1753	Structure control of organized mesoporous $\text{TiO}_2$ films templated by graft copolymers for dye-sensitized solar cells. Chemical Communications, 2010, 46, 1935-1937.	2.2	98
1754	A photoelectrochemical device for visible light driven water splitting by a molecular ruthenium catalyst assembled on dye-sensitized nanostructured $\text{TiO}_2$ . Chemical Communications, 2010, 46, 7307.	2.2	232
1755	Role of Resonance Energy Transfer in Light Harvesting of Zinc Oxide-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 10390-10395.	1.5	50
1756	Composite photoanodes for photoelectrochemical solar water splitting. Energy and Environmental Science, 2010, 3, 1252.	15.6	259
1757	Mesoporous Titanium Dioxide. ACS Symposium Series, 2010, , 97-123.	0.5	8
1758	Solar Water Splitting Cells. Chemical Reviews, 2010, 110, 6446-6473.	23.0	8,307
1759	Quantum Dots and Their Multimodal Applications: A Review. Materials, 2010, 3, 2260-2345.	1.3	986
1760	Enhancing the photoelectrical performance of dye-sensitized solar cells using $\text{TiO}_2$ : $\text{Eu}^{3+}$ nanorods. Nanotechnology, 2010, 21, 415201.	1.3	67
1761	Artificial Photosynthesis. ACS Symposium Series, 2010, , 283-312.	0.5	2
1762	The Diabatic Picture of Electron Transfer, Reaction Barriers, and Molecular Dynamics. Annual Review of Physical Chemistry, 2010, 61, 149-170.	4.8	280
1763	Towards new efficient dye-sensitised solar cells. Energy and Environmental Science, 2010, 3, 891.	15.6	156
1764	Multilayered Semiconductor (CdS/CdSe/ZnS)-Sensitized $\text{TiO}_2$ Mesoporous Solar Cells: All Prepared by Successive Ionic Layer Adsorption and Reaction Processes. Chemistry of Materials, 2010, 22, 5636-5643.	3.2	227
1765	An optimized dispersion of manufactured nanomaterials for in vitro cytotoxicity assays. Toxicology and Environmental Health Sciences, 2010, 2, 207-213.	1.1	3
1766	Dispersion, fractionation and characterization of sub-100nm P25 $\text{TiO}_2$ nanoparticles in aqueous media. Toxicology and Environmental Health Sciences, 2010, 2, 78-85.	1.1	11
1767	Study of the transport mechanism in molecular self-assembling devices. Applied Physics A: Materials Science and Processing, 2010, 98, 717-734.	1.1	6



#	ARTICLE	IF	CITATIONS
1768	Growth of nanocrystalline TiO <sub>2</sub> films by pulsed-laser-induced liquid-deposition method and preliminary applications for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 1169-1176.	1.1	9
1769	Full spectroscopic characterization of an hydrolytically stable and colored Ti(IV)-precursor in solution. <i>Comptes Rendus Chimie</i> , 2010, 13, 69-96.	0.2	15
1770	The synthesis and characterization of 2-(2-pyridyl)benzimidazole heteroleptic ruthenium complex: Efficient sensitizer for molecular photovoltaics. <i>Dyes and Pigments</i> , 2010, 84, 88-94.	2.0	28
1771	Chemical deposition of platinum on metallic sheets as counterelectrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 1687-1695.	2.6	79
1772	Additive treatment effect of TiO <sub>2</sub> as supports for Pt-based electrocatalysts on oxygen reduction reaction activity. <i>Electrochimica Acta</i> , 2010, 55, 3628-3633.	2.6	81
1773	Anatase TiO <sub>2</sub> spheres with high surface area and mesoporous structure via a hydrothermal process for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 4637-4641.	2.6	59
1774	Particle size effects of PtRu nanoparticles embedded in TiO <sub>2</sub> on methanol electrooxidation. <i>Electrochimica Acta</i> , 2010, 55, 7939-7944.	2.6	23
1775	Application of a polymer heterojunction in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 5798-5802.	2.6	23
1776	Preparation and characterisation of visible light responsive iodine doped TiO <sub>2</sub> electrodes. <i>Electrochimica Acta</i> , 2010, 55, 5881-5885.	2.6	25
1777	ZnO nanosphere fabrication using the functionalized polystyrene nanoparticles for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 6563-6569.	2.6	22
1778	Heat induced voltage generation in electrochemical cell containing zinc oxide nanoparticles. <i>Energy</i> , 2010, 35, 2160-2163.	4.5	8
1779	The 3-dimensional dye-sensitized solar cell and module based on all titanium substrates. <i>Applied Energy</i> , 2010, 87, 436-441.	5.1	46
1780	Photoelectrochemical cells using metal-decorated carbon nanotube electrodes. <i>Current Applied Physics</i> , 2010, 10, 153-157.	1.1	6
1781	Analysis of TiO <sub>2</sub> thickness effect on characteristic of a dye-sensitized solar cell by using electrochemical impedance spectroscopy. <i>Current Applied Physics</i> , 2010, 10, S422-S424.	1.1	68
1782	Effects of crown ethers in nanocomposite silica-gel electrolytes on the performance of quasi-solid-state dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 675-679.	3.0	21
1783	An efficient photoelectrochemical cell functioning in the presence of organic wastes. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 592-597.	3.0	78
1784	Optical properties of nanometric TiO <sub>2</sub> clusters deposited on thin films by high pressure sputtering. <i>Surface and Coatings Technology</i> , 2010, 204, 1893-1897.	2.2	8
1785	Photoelectrochemical performance of TiO <sub>2</sub> -nanotube-array film modified by decoration of TiO <sub>2</sub> via liquid phase deposition. <i>Surface and Coatings Technology</i> , 2010, 205, 2572-2577.	2.2	17

#	ARTICLE	IF	CITATIONS
1786	Optimized monolayer grafting of 3-aminopropyltriethoxysilane onto amorphous, anatase and rutile TiO <sub>2</sub> . <i>Surface Science</i> , 2010, 604, 346-353.	0.8	100
1787	Novel polymeric metal complexes as dye sensitizers for Dye-sensitized solar cells based on poly thiophene containing complexes of 8-hydroxyquinoline with Zn(II), Cu(II) and Eu(III) in the side chain. <i>Tetrahedron</i> , 2010, 66, 2835-2842.	1.0	43
1788	Scanning electrochemical microscope studies of dye regeneration in indoline (D149)-sensitized ZnO photoelectrochemical cells. <i>Journal of Electroanalytical Chemistry</i> , 2010, 650, 24-30.	1.9	32
1789	Photovoltaic efficiency on dye-sensitized solar cells (DSSC) assembled using Ga-incorporated TiO <sub>2</sub> materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 906-911.	2.9	50
1790	Molecule design and screening of novel unsymmetrical zinc phthalocyanine sensitizers for dye-sensitized solar cells. <i>Journal of Molecular Modeling</i> , 2010, 16, 303-310.	0.8	7
1791	Molecular orbital evaluation of charge flow dynamics in natural pigments based photosensitizers. <i>Journal of Molecular Modeling</i> , 2010, 16, 523-533.	0.8	24
1792	Fabrication of double-walled carbon nanotube counter electrodes for dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1541-1546.	1.2	66
1793	Adsorption and redox chemistry of cis-Ru(II)(SCN) <sub>2</sub> with L=4,4'-dicarboxylic acid-2,2'-bipyridine and L'=4,4'-dinonyl-2,2'-bipyridine (Z907) at FTO and TiO <sub>2</sub> electrode surfaces. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1929-1936.	1.2	23
1794	Effect of ionic conductivity of a PAN/PCL/LiClO <sub>4</sub> solid polymeric electrolyte on the performance of a TiO <sub>2</sub> photoelectrochemical cell. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2089-2093.	1.2	6
1795	Algal Photosynthesis as the Primary Driver for a Sustainable Development in Energy, Feed, and Food Production. <i>Marine Biotechnology</i> , 2010, 12, 619-629.	1.1	39
1796	Effects of silver content and morphology on the catalytic activity of silver-grafted titanium oxide nanostructure. <i>Fibers and Polymers</i> , 2010, 11, 700-709.	1.1	36
1797	Stabilization of the anatase phase of Ti <sub>1-x</sub> Sn <sub>x</sub> O <sub>2</sub> (x < 0.5) nanofibers. <i>Nano Research</i> , 2010, 3, 256-263.	5.8	15
1798	Preparation and performance of dye-sensitized solar cells based on ZnO-modified TiO <sub>2</sub> electrodes. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010, 17, 92-97.	2.4	38
1799	Ferrate(VI) enhanced photocatalytic oxidation of pollutants in aqueous TiO <sub>2</sub> suspensions. <i>Environmental Science and Pollution Research</i> , 2010, 17, 453-461.	2.7	55
1800	Observation of modulated spontaneous emission of Rhodamine 6G in low refractive index contrast 1D-periodic gelatin film. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 54-58.	2.0	2
1801	Theoretical studies on electronic spectroscopy and dynamics with the real-time time-dependent density functional theory. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010, 5, 11-28.	0.4	10
1802	Fabrication of a nanoparticle TiO <sub>2</sub> photoelectrochemical cell utilizing a solid polymeric electrolyte of PAN/PCL/LiClO <sub>4</sub> . <i>Ionics</i> , 2010, 16, 639-644.	1.2	10
1803	New Hybrid Properties of TiO <sub>2</sub> Nanoparticles Surface Modified With Catecholate Type Ligands. <i>Nanoscale Research Letters</i> , 2010, 5, 81-88.	3.1	109

#	ARTICLE	IF	CITATIONS
1804	Promoting Effect of Layered Titanium Phosphate on the Electrochemical and Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>Nanoscale Research Letters</i> , 2010, 5, 1313-1319.	3.1	5
1805	Investigation into Photoconductivity in Single CNF/TiO <sub>2</sub> -Dye Core-Shell Nanowire Devices. <i>Nanoscale Research Letters</i> , 2010, 5, 1480-1486.	3.1	16
1806	Silicon and Germanium Nanostructures for Photovoltaic Applications: Ab-Initio Results. <i>Nanoscale Research Letters</i> , 2010, 5, 1637-1649.	3.1	41
1807	Au Nanoparticles as Interfacial Layer for CdS Quantum Dot-sensitized Solar Cells. <i>Nanoscale Research Letters</i> , 2010, 5, 1749-1754.	3.1	57
1808	Hydrothermally Processed Oxide Nanostructures and Their Lithium-ion Storage Properties. <i>Nanoscale Research Letters</i> , 2010, 5, 1841-1845.	3.1	2
1809	Efficient Performance of Electrostatic Spray-Deposited TiO <sub>2</sub> Blocking Layers in Dye-Sensitized Solar Cells after Swift Heavy Ion Beam Irradiation. <i>Nanoscale Research Letters</i> , 2011, 6, 30.	3.1	18
1810	Manipulation of Spontaneous Emission Dynamics of Organic Dyes in the Porous Silicon Matrix. <i>Journal of Fluorescence</i> , 2010, 20, 283-290.	1.3	2
1811	Electrochemical preparation of oligo(azulene) on nanoporous TiO <sub>2</sub> and characterization of the composite layer. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 1583-1591.	1.5	13
1812	Dye-sensitized solar cells using TiO <sub>2</sub> nanoparticles transformed from nanotube arrays. <i>Journal of Materials Science</i> , 2010, 45, 2902-2906.	1.7	31
1813	Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. <i>Journal of Materials Science</i> , 2010, 45, 6283-6312.	1.7	213
1814	Template-free synthesis of hierarchical porous SnO <sub>2</sub> . <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 499-503.	1.1	8
1815	Sponge-like TiO <sub>2</sub> layers for dye-sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 647-654.	1.1	35
1816	Aging effect of diethanolamine derived precursor sol on TiO <sub>2</sub> films deposited at different annealing temperatures. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 129-138.	1.1	10
1817	Comments on the processing of the niobium component for chemical solution derived niobium oxide-based thin-films. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 56, 236-243.	1.1	6
1818	Material properties controlling photocurrent on TiO <sub>2</sub> aggregates with plane orientation for dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2621-2628.	0.8	6
1819	A green chemical approach for the synthesis of gold nanoparticles: characterization and mechanistic aspect. <i>Reviews in Environmental Science and Biotechnology</i> , 2010, 9, 199-204.	3.9	97
1820	Synthesis of metal oxide-based nanopowders using hydrogen peroxide and sodium hydroxide solution. <i>Research on Chemical Intermediates</i> , 2010, 36, 811-817.	1.3	1
1821	Synthetic Strategy of Low-Bandgap Organic Sensitizers and Their Photoelectron Injection Characteristics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1627-1634.	1.9	16

#	ARTICLE	IF	CITATIONS
1822	Anode growth of DSSCs by flat-flame chemical vapor deposition method. <i>Materials Chemistry and Physics</i> , 2010, 120, 181-186.	2.0	17
1823	Photoactive curcumin-derived dyes with surface anchoring moieties used in ZnO nanoparticle-based dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2010, 123, 62-66.	2.0	24
1824	A novel counter electrode based on mesoporous carbon for dye-sensitized solar cell. <i>Materials Chemistry and Physics</i> , 2010, 123, 690-694.	2.0	23
1825	Enhancing efficiency of dye-sensitized solar cells by combining use of TiO <sub>2</sub> nanotubes and nanoparticles. <i>Materials Chemistry and Physics</i> , 2010, 124, 179-183.	2.0	26
1826	Microstructured ZnO photoelectrode grown on the sputter-deposited ZnO passivating-layer for improving the photovoltaic performances. <i>Materials Chemistry and Physics</i> , 2010, 124, 940-945.	2.0	18
1827	Hydrothermally derived nanosized Ni-doped TiO <sub>2</sub> : A visible light driven photocatalyst for methylene blue degradation. <i>Materials Chemistry and Physics</i> , 2010, 124, 976-981.	2.0	79
1828	Rietveld X-ray diffraction analysis of nanostructured rutile films of titania prepared by pulsed laser deposition. <i>Materials Research Bulletin</i> , 2010, 45, 6-9.	2.7	21
1829	Surface texture and specific adsorption sites of sol-gel synthesized anatase TiO <sub>2</sub> nanoparticles. <i>Materials Research Bulletin</i> , 2010, 45, 1470-1475.	2.7	24
1830	FTIR study of the photocatalytic degradation of gaseous benzene over UV-irradiated TiO <sub>2</sub> nanoballs synthesized by hydrothermal treatment in alkaline solution. <i>Materials Research Bulletin</i> , 2010, 45, 1889-1893.	2.7	17
1831	A simple method for producing mesoporous anatase TiO <sub>2</sub> nanocrystals with elevated photovoltaic performance. <i>Scripta Materialia</i> , 2010, 62, 223-226.	2.6	31
1832	Pristine and supported ZnO-based catalysts for phenazopyridine degradation with direct solar light. <i>Solid State Sciences</i> , 2010, 12, 578-586.	1.5	42
1833	Carrier recombination dynamics in anatase TiO <sub>2</sub> nanoparticles. <i>Solid State Sciences</i> , 2010, 12, 1877-1880.	1.5	16
1834	White light generation and amplification using a soliton pulse within a nano-waveguide for the potential of solar energy conversion use. <i>Energy Conversion and Management</i> , 2010, 51, 2340-2344.	4.4	7
1835	Progress in new semiconductor materials classes for solar photoelectrolysis. <i>International Journal of Energy Research</i> , 2010, 34, 1215-1222.	2.2	30
1836	Two Photoelectrochemical Processes for TiO <sub>2</sub> Electrode under UV Illumination. <i>Chinese Journal of Chemistry</i> , 2003, 21, 1001-1004.	2.6	0
1837	Textile-Compatible Substrate Electrodes with Electrodeposited ZnO—A New Pathway to Textile-Based Photovoltaics. <i>ChemPhysChem</i> , 2010, 11, 783-788.	1.0	16
1838	Donor/Acceptor Adsorbates on the Surface of Metal Oxide Nanoporous Films: A Spectroscopic Probe for Different Electron Transfer Pathways. <i>ChemPhysChem</i> , 2010, 11, 2027-2035.	1.0	2
1839	Ultrafast Photodeposition of Size-Controlled PbS Quantum Dots on TiO <sub>2</sub> . <i>ChemPhysChem</i> , 2010, 11, 2349-2352.	1.0	21

#	ARTICLE	IF	CITATIONS
1840	Charge Separation in Wurtzite/Zinc-Blende Heterojunction GaN Nanowires. <i>ChemPhysChem</i> , 2010, 11, 3329-3332.	1.0	5
1841	Doped TiO <sub>2</sub> and TiO <sub>2</sub> Nanotubes: Synthesis and Applications. <i>ChemPhysChem</i> , 2010, 11, 2698-2713.	1.0	352
1842	Photostimulated Reduction Processes in a Titania Hybrid Metal-Organic Framework. <i>ChemPhysChem</i> , 2010, 11, 2341-2344.	1.0	48
1843	Effect of External Pressure on the Excitation Energy Transfer from [Cr(ox) <sub>3</sub> ] <sup>3+</sup> to [Cr(bpy) <sub>3</sub> ] <sup>3+</sup> in [Rh <sup>III</sup> Cr(bpy) <sub>3</sub> ][NaM <sup>I</sup> Cr <sup>III</sup> (ox) <sub>3</sub> ]. <i>ChemPhysChem</i> , 2010, 11, 3161-3166.	1.0	6
1844	Pressure-Induced Structural Transition in WO <sub>3</sub> Nanowires. <i>ChemPhysChem</i> , 2010, 11, 2546-2549.	1.0	6
1845	Flowerlike Vanadium Sesquioxide: Solvothermal Preparation and Electrochemical Properties. <i>ChemPhysChem</i> , 2010, 11, 3273-3280.	1.0	37
1846	PbS Quantum Dot-Sensitized Photoelectrochemical Cell for Hydrogen Production from Water under Illumination of Simulated Sunlight. <i>ChemPhysChem</i> , 2010, 11, 3592-3595.	1.0	52
1847	Do anionic titanium dioxide nano-clusters reach bulk band gap? A density functional theory study. <i>Journal of Computational Chemistry</i> , 2010, 31, 2038-2045.	1.5	17
1848	Functional Materials for Sustainable Energy Technologies: Four Case Studies. <i>ChemSusChem</i> , 2010, 3, 44-58.	3.6	34
1849	Controllable Hydrogen Generation from Water. <i>ChemSusChem</i> , 2010, 3, 571-574.	3.6	22
1850	Layered Graphene/Quantum Dots: Nanoassemblies for Highly Efficient Solar Cells. <i>ChemSusChem</i> , 2010, 3, 797-799.	3.6	12
1851	Metal-Free Porphyrin-Sensitized Mesoporous Titania Films For Visible-Light Indoor Air Oxidation. <i>ChemSusChem</i> , 2010, 3, 1057-1062.	3.6	66
1852	A Tandem Water-Splitting Device Based on a Bio-Inspired Manganese Catalyst. <i>ChemSusChem</i> , 2010, 3, 1146-1150.	3.6	30
1853	Preferential Orientation in Hematite Films for Solar Hydrogen Production via Water Splitting. <i>Chemical Vapor Deposition</i> , 2010, 16, 291-295.	1.4	55
1854	Simple and Efficient Aqueous Process for Nanostructured Fibrous TiO <sub>2</sub> Regulated by Linear Polyethyleneimine Aggregates. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 476-482.	1.0	7
1855	Formation of Silica Nanolayers on ZnO Electrodes in Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2165-2171.	1.0	12
1856	Dye-Sensitized Solar Cells Based on a Novel Fluorescent Dye with a Pyridine Ring and a Pyridinium Dye with the Pyridinium Ring Forming Strong Interactions with Nanocrystalline TiO <sub>2</sub> Films. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 92-100.	1.2	44
1857	Axially Extended Perylene Dyes. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3140-3145.	1.2	8

#	ARTICLE	IF	CITATIONS
1858	Estimating the Maximum Attainable Efficiency in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 13-19.	7.8	458
1859	p-n Junction-Based Flexible Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2010, 20, 266-271.	7.8	56
1860	Graphite Oxide as a Photocatalyst for Hydrogen Production from Water. <i>Advanced Functional Materials</i> , 2010, 20, 2255-2262.	7.8	746
1861	Effect of an Ultrathin TiO <sub>2</sub> Layer Coated on Submicrometer-Sized ZnO Nanocrystallite Aggregates by Atomic Layer Deposition on the Performance of Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2010, 22, 2329-2332.	11.1	196
1862	Polymer-Fullerene Bulk-Heterojunction Solar Cells. <i>Advanced Materials</i> , 2010, 22, 3839-3856.	11.1	1,825
1863	Photovoltaic Properties of Glutathione-Protected Gold Clusters Adsorbed on TiO <sub>2</sub> Electrodes. <i>Advanced Materials</i> , 2010, 22, 3185-3188.	11.1	210
1864	Microstructured Tungsten Oxide: A Generic Desorption/Ionization Substrate for Mass Spectrometry. <i>Advanced Materials</i> , 2010, 22, 4520-4523.	11.1	16
1865	Near-Infrared Sunlight Harvesting in Dye-Sensitized Solar Cells Via the Insertion of an Upconverter-TiO <sub>2</sub> Nanocomposite Layer. <i>Advanced Materials</i> , 2010, 22, 4373-4377.	11.1	291
1866	Formation of Self-Organized Superlattice Nanotube Arrays - Embedding Heterojunctions into Nanotube Walls. <i>Advanced Materials</i> , 2010, 22, 4770-4774.	11.1	24
1867	Synthesis, Structure and Light-Harvesting Properties of Some New Transition-Metal Dithiocarbamates Involving Ferrocene. <i>Chemistry - A European Journal</i> , 2010, 16, 4307-4314.	1.7	120
1868	Microwave-Assisted, Aqueous Wittig Reactions: Organic-Solvent- and Protecting-Group-Free Chemoselective Synthesis of Functionalized Alkenes. <i>Chemistry - A European Journal</i> , 2010, 16, 6756-6760.	1.7	67
1869	Condensation- and Crystallinity-Controlled Synthesis of Titanium Oxide Films with Assessed Mesopores. <i>Chemistry - A European Journal</i> , 2010, 16, 12069-12073.	1.7	27
1870	Photophysical Studies of Dipolar Organic Dyes That Feature a 1,3-Cyclohexadiene Conjugated Linkage: The Implication of a Twisted Intramolecular Charge-Transfer State on the Efficiency of Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2010, 16, 12873-12882.	1.7	37
1871	Hierarchical Tin Oxide Octahedra for Highly Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2010, 16, 8620-8625.	1.7	86
1877	Colloidal Hybrid Nanostructures: A New Type of Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4878-4897.	7.2	726
1878	Layered Graphene/Quantum Dots for Photovoltaic Devices. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3014-3017.	7.2	626
1879	Double-Layered Photoanodes from Variable-Size Anatase TiO <sub>2</sub> Nanospindles: A Candidate for High-Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3675-3679.	7.2	159
1880	Electronic Tuning of Nickel-Based Bis(dicarbollide) Redox Shuttles in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5339-5343.	7.2	121

#	ARTICLE	IF	CITATIONS
1881	Light-Induced Water Splitting with Hematite: Improved Nanostructure and Iridium Oxide Catalysis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6405-6408.	7.2	966
1882	Efficient fuel cell catalysts emerging from organometallic chemistry. <i>Applied Organometallic Chemistry</i> , 2010, 24, 257-268.	1.7	11
1883	Conjugated copolymers of cyanosubstituted poly( <i>p</i> -phenylene vinylene) with phenylene ethynylene and thienylene vinylene moieties: Synthesis, optical, and electrochemical properties. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1480-1488.	1.3	7
1884	Effect of the grain size of nanoparticle dye-coated titanium dioxide on the short-circuit current density and open-circuit voltage of an indium tin oxide/titanium dioxide/poly(acrylonitrile)-propylene carbonate-lithium perchlorate/graphite solar cell. <i>Journal of Applied Polymer Science</i> , 2010, 116, NA-NA.	1.3	1
1885	A Raman spectroscopic and TEM study on the structural evolution of $\text{Na}_2\text{Ti}_3\text{O}_7$ during the transition to $\text{Na}_2\text{Ti}_6\text{O}_{13}$ . <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1331-1337.	1.2	84
1886	A Raman spectroscopic study on the allocation of ammonium adsorbing sites on $\text{H}_2\text{Ti}_3\text{O}_7$ nanofibre and its structural derivation during calcination. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1601-1605.	1.2	17
1887	A Raman spectroscopic study on the active site of sodium cations in the structure of $\text{Na}_2\text{Ti}_3\text{O}_7$ during the adsorption of $\text{Sr}^{2+}$ and $\text{Ba}^{2+}$ cations. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1792-1796.	1.2	31
1888	Effect of Central Metals in the Porphyrin Ring on Photocurrent Performance of Cellulose Langmuir-Blodgett Films. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2425-2433.	1.1	15
1889	Synthesis and Photovoltaic Properties of Side-Chain Liquid-Crystal Click Polymers for Dye-Sensitized Solar-Cells Application. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2464-2473.	1.1	29
1890	Controlling the Photoluminescence from a Laser Dye through the Oxidation Level of Polypyrrole. <i>Macromolecular Rapid Communications</i> , 2010, 31, 289-294.	2.0	3
1891	Fabrication, Assembly, and Application of Patchy Particles. <i>Macromolecular Rapid Communications</i> , 2010, 31, 150-168.	2.0	358
1892	Electrocatalytic activity and stability of niobium-doped titanium oxide supported platinum catalyst for polymer electrolyte membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 224-231.	10.8	153
1893	Simplifying the construction of dye-sensitized solar cells to increase their accessibility for community education. <i>Renewable Energy</i> , 2010, 35, 266-268.	4.3	2
1894	Resource constraints in a hydrogen economy based on renewable energy sources: An exploration. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2784-2795.	8.2	141
1895	Quantum chemistry calculations of 3-Phenoxyphthalonitrile dye sensitizer for solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 45-50.	2.0	71
1896	Fluorescent nano particles in the aqueous phase by polymer analogous reaction of polyvinyl alcohol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 541-544.	2.0	3
1897	Visible-light hydrogen generation using as photocatalysts layered titanates incorporating in the intergallery space ruthenium tris(bipyridyl) and methyl viologen. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 172-177.	5.0	8
1898	Electron transfer dynamics from the singlet and triplet excited states of meso-tetrakis( <i>p</i> -carboxyphenyl)porphyrin into colloidal $\text{TiO}_2$ and $\text{AuTiO}_2$ nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 642-648.	5.0	18

#	ARTICLE	IF	CITATIONS
1899	Sulfur doped anatase TiO <sub>2</sub> single crystals with a high percentage of {0 0 1} facets. Journal of Colloid and Interface Science, 2010, 349, 477-483.	5.0	112
1900	Template-based fabrication of Ag@ZnO core-shell nanorod arrays. Journal of Crystal Growth, 2010, 312, 2724-2728.	0.7	10
1901	Cis-bis(isothiocyanato)-bis(2,2'-bipyridyl-4,4'-dicarboxylato)-Ru(II) (N719) dark-reactivity when bound to fluorine-doped tin oxide (FTO) or titanium dioxide (TiO <sub>2</sub> ) surfaces. Journal of Electroanalytical Chemistry, 2010, 640, 61-67.	1.9	18
1902	Photocatalytic activity of titanium dioxide coatings: Influence of the firing temperature of the chemical gel. Journal of the European Ceramic Society, 2010, 30, 2757-2762.	2.8	9
1903	Facing-target sputtering deposition of ZnO films with Pt ultra-thin layers for gas-phase photocatalytic application. Journal of Hazardous Materials, 2010, 176, 973-978.	6.5	27
1904	Comparison of the photovoltaic efficiency on DSSC for nanometer sized TiO <sub>2</sub> using a conventional sol-gel and solvothermal methods. Journal of Industrial and Engineering Chemistry, 2010, 16, 609-614.	2.9	92
1905	Photoluminescence and energy transfer of Tm <sup>3+</sup> doped LiIn (WO <sub>4</sub> ) <sub>2</sub> blue phosphors. Journal of Luminescence, 2010, 130, 2469-2475.	1.5	33
1906	Synthesis and optical characterization of nanocrystalline CdTe thin films. Optics and Laser Technology, 2010, 42, 1181-1186.	2.2	53
1907	Effect of testing conditions on the photovoltaic performance of ZnO-based dye sensitized solar cells. Physics Procedia, 2010, 8, 28-32.	1.2	5
1908	Effect of surface modification of TiO <sub>2</sub> on the photovoltaic performance of the quasi solid state dye sensitized solar cells using a benzothiadiazole-based dye. Journal of Power Sources, 2010, 195, 3011-3016.	4.0	48
1909	A dye-sensitized photo-supercapacitor based on PProDOT-Et <sub>2</sub> thick films. Journal of Power Sources, 2010, 195, 6232-6238.	4.0	89
1910	Low molecular mass organogelator based gel electrolyte gelled by a quaternary ammonium halide salt for quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2010, 195, 4384-4390.	4.0	46
1911	Fast, self-supplied, all-solid photoelectrochromic film. Journal of Power Sources, 2010, 195, 4365-4369.	4.0	31
1912	Improvement of the performance of dye-sensitized solar cells using Sn-doped ZnO nanoparticles. Journal of Power Sources, 2010, 195, 5806-5809.	4.0	73
1913	Influence of gas ambient on the synthesis of co-doped ZnO:(Al,N) films for photoelectrochemical water splitting. Journal of Power Sources, 2010, 195, 5801-5805.	4.0	47
1914	Faradaic impedance of dye-sensitized solar cells. Journal of Power Sources, 2010, 195, 6905-6923.	4.0	27
1915	Enhancing photoelectrical performance of dye-sensitized solar cell by doping with europium-doped yttria rare-earth oxide. Journal of Power Sources, 2010, 195, 6937-6940.	4.0	85
1916	Molecular modeling of 3,4-pyridinedicarbonitrile dye sensitizer for solar cells using quantum chemical calculations. Journal of Saudi Chemical Society, 2010, 14, 399-407.	2.4	5



#	ARTICLE	IF	CITATIONS
1917	Current-voltage characteristics and ethanol gas sensing properties of ZnO thin film/Si heterojunction at room temperature. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2021-2025.	1.3	32
1918	Effect of thermal annealing on the microstructural and electrical properties of Al-doped ZnO thin films grown on n-Si (100) substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 256-260.	1.3	1
1919	Synthesis and applications of one-dimensional semiconductors. <i>Progress in Materials Science</i> , 2010, 55, 563-627.	16.0	450
1920	Synthesis, structure and spectroelectrochemical property of (2,2'-bipyridine) <sup>2+</sup> metal (M=Pt, Pd) dichloride with 4,4'-bis(fluorous-ponytail) on bipyridine. <i>Polyhedron</i> , 2010, 29, 1123-1129.	1.0	20
1921	One-dimensional organic-inorganic hybrid nanomaterials. <i>Polymer</i> , 2010, 51, 4015-4036.	1.8	121
1922	Synthesis and application of H-Bonded cross-linking polymers containing a conjugated pyridyl H-Acceptor side-chain polymer and various carbazole-based H-Donor dyes bearing symmetrical cyanoacrylic acids for organic solar cells. <i>Polymer</i> , 2010, 51, 6182-6192.	1.8	38
1923	Theoretical study on the electronic absorption spectra and molecular orbitals of ten novel ruthenium sensitizers derived from N3 and K8. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 29, 498-505.	1.3	14
1924	Mono and dinuclear complexes of half-sandwich platinum group metals (Ru, Rh and Ir) bearing a flexible pyridyl-thiazole multidentate donor ligand. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 226-234.	0.8	19
1925	Study of Pt/TiO <sub>2</sub> nanocomposite for cancer-cell treatment. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2010, 98, 207-210.	1.7	66
1926	TiO <sub>2</sub> - and ZnO-based solar cells using a chlorophyll a derivative sensitizer for light-harvesting and energy conversion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 210, 145-152.	2.0	54
1927	Ionic diffusion in various electrolytes and the implications for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 213, 1-6.	2.0	5
1928	Electrolyte effects on photoelectron injection and recombination dynamics in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 213, 87-92.	2.0	17
1929	Terpyridine- and 2,6-dipyrazinylpyridine-coordinated ruthenium(II) complexes: Synthesis, characterization and application in TiO <sub>2</sub> -based dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 214, 22-32.	2.0	46
1930	Photocatalytic evolution of hydrogen and oxygen from ceramic wafers of commercial titanias. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 216, 110-114.	2.0	19
1931	Aggregation of indoline dyes as sensitizers for ZnO solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 216, 1-7.	2.0	49
1932	Photosynthetic hydrogen production. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010, 11, 101-113.	5.6	108
1933	Recent progress on photocatalytic and photoelectrochemical water splitting under visible light irradiation. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010, 11, 179-209.	5.6	1,048
1934	Controlled microwave synthesis of RuII synthons and chromophores relevant to solar energy conversion. <i>Inorganica Chimica Acta</i> , 2010, 363, 283-287.	1.2	19

#	ARTICLE	IF	CITATIONS
1935	Synthesis, structure, and characterization of two polyoxometalate-photosensitizer hybrid materials. <i>Inorganica Chimica Acta</i> , 2010, 363, 4381-4386.	1.2	34
1936	An overview of photocells and photoreactors for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5233-5244.	3.8	286
1937	Visible light response photocatalytic water splitting over CdS-pillared zirconium-titanium phosphate (ZTP). <i>International Journal of Hydrogen Energy</i> , 2010, 35, 5262-5269.	3.8	36
1938	Impedance characterization of dye-sensitized solar cells in a tandem arrangement for hydrogen production by water splitting. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8876-8883.	3.8	38
1939	High performance nano-titania photocatalytic paper composite. Part I: Experimental design study for TiO <sub>2</sub> composite sheet using a natural zeolite microparticle system and its photocatalytic property. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 166, 127-131.	1.7	26
1940	Deposition of hole-transport materials in solid-state dye-sensitized solar cells by doctor-blading. <i>Organic Electronics</i> , 2010, 11, 1217-1222.	1.4	90
1941	Growth of titanium dioxide nanopetals induced by single wall carbon nanohorns. <i>Carbon</i> , 2010, 48, 2470-2477.	5.4	16
1942	Formation of titanium oxide nanogrooves island arrays by anodization. <i>Electrochemistry Communications</i> , 2010, 12, 86-89.	2.3	10
1943	Single crystalline ordered silicon wire/Pt nanoparticle hybrids for solar energy harvesting. <i>Electrochemistry Communications</i> , 2010, 12, 509-512.	2.3	16
1944	Dye-sensitized solar cells using anodic TiO <sub>2</sub> mesosponge: Improved efficiency by TiCl <sub>4</sub> treatment. <i>Electrochemistry Communications</i> , 2010, 12, 574-578.	2.3	61
1945	TiO <sub>2</sub> nanotubes in dye-sensitized solar cells: Higher efficiencies by well-defined tube tops. <i>Electrochemistry Communications</i> , 2010, 12, 949-951.	2.3	104
1946	Dye-sensitized solar cells based on hollow anatase TiO <sub>2</sub> spheres prepared by self-transformation method. <i>Electrochimica Acta</i> , 2010, 55, 597-602.	2.6	127
1947	Photo-electro catalytic oxidation of aromatic alcohols on visible light-absorbing nitrogen-doped TiO <sub>2</sub> . <i>Electrochimica Acta</i> , 2010, 55, 7788-7795.	2.6	45
1948	Quasi solid state dye-sensitized solar cells with modified TiO <sub>2</sub> photoelectrodes and triphenylamine-based dye. <i>Electrochimica Acta</i> , 2010, 55, 2368-2372.	2.6	20
1949	Application of poly(acrylic acid-g-gelatin)/polypyrrole gel electrolyte in flexible quasi-solid-state dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2010, 55, 2777-2781.	2.6	68
1950	Electrochemical tuning of titania nanotube morphology in inhibitor electrolytes. <i>Electrochimica Acta</i> , 2010, 55, 3703-3713.	2.6	42
1951	Effect of pyridine in electrolyte on the current-voltage characteristics in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 3491-3496.	2.6	14
1952	Electrochemically multi-anodized TiO <sub>2</sub> nanotube arrays for enhancing hydrogen generation by photoelectrocatalytic water splitting. <i>Electrochimica Acta</i> , 2010, 55, 4776-4782.	2.6	132

#	ARTICLE	IF	CITATIONS
1953	The preparation of poly(glycidyl acrylate)-polypyrrole gel-electrolyte and its application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 4883-4888.	2.6	44
1954	Enhanced photoelectrochemistry and interactions in cadmium selenide-functionalized multiwalled carbon nanotube composite films. <i>Electrochimica Acta</i> , 2010, 55, 6731-6742.	2.6	12
1955	Improved stability of mesoporous carbon fuel cell catalyst support through incorporation of TiO <sub>2</sub> . <i>Electrochimica Acta</i> , 2010, 55, 8365-8370.	2.6	46
1956	Adsorption of di-, tri- and polyatomic gases on the anatase TiO <sub>2</sub> (001) and (101) surfaces and their adsorption abilities. <i>Computational and Theoretical Chemistry</i> , 2010, 952, 103-108.	1.5	36
1957	Influence of electrodeposition potential and heat treatment on structural properties of CdTe films. <i>Thin Solid Films</i> , 2010, 518, 4197-4202.	0.8	28
1958	ZnO nanowire/TiO <sub>2</sub> nanoparticle photoanodes prepared by the ultrasonic irradiation assisted dip-coating method. <i>Thin Solid Films</i> , 2010, 518, 4809-4812.	0.8	42
1959	The effects of ethyl cellulose on PV performance of DSSC made of nanostructured ZnO pastes. <i>Thin Solid Films</i> , 2010, 518, e68-e71.	0.8	30
1960	Structural and electrochromic properties of TiO <sub>2</sub> thin films prepared by metallorganic chemical vapor deposition. <i>Thin Solid Films</i> , 2010, 518, 5457-5462.	0.8	28
1961	Femtosecond laser deposition of TiO <sub>2</sub> by laser induced forward transfer. <i>Thin Solid Films</i> , 2010, 518, 5525-5529.	0.8	10
1962	Vapor deposited sculptured nano-porous titania films by glancing angle deposition for efficiency enhancement in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2010, 519, 1717-1722.	0.8	26
1963	Effects of calcination temperature on the morphology, structure and photocatalytic activity of titanate nanotube thin films. <i>Thin Solid Films</i> , 2010, 519, 541-548.	0.8	32
1964	Visible light enhanced TiO <sub>2</sub> thin film bilayer dye sensitized solar cells. <i>Thin Solid Films</i> , 2010, 519, 894-899.	0.8	16
1965	Visible-light-induced photoelectric gas sensing to formaldehyde based on CdS nanoparticles/ZnO heterostructures. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 234-240.	4.0	68
1966	Evaluation on over photocurrents measured from unmasked dye-sensitized solar cells. <i>Solar Energy</i> , 2010, 84, 418-425.	2.9	24
1967	Photoelectrochemical properties of spray deposited n-CdSe thin films. <i>Solar Energy</i> , 2010, 84, 763-770.	2.9	39
1968	Photoelectrochemical performances of n-CdS thin films prepared by spray pyrolysis technique. <i>Solar Energy</i> , 2010, 84, 1445-1452.	2.9	37
1969	Temperature-dependent infrared spectrum of (Bu <sub>4</sub> N) <sub>2</sub> [Ru(dcbpyH) <sub>2</sub> (NCS) <sub>2</sub> ] on nanocrystalline TiO <sub>2</sub> surfaces. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 857-864.	3.0	28
1970	Chiral (S)-5-octyloxy-2-[[4-(2-methylbutoxy)-phenylimino]-methyl]-phenol liquid crystalline compound as additive into polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1089-1099.	3.0	43

#	ARTICLE	IF	CITATIONS
1971	Dye stability and performances of dye-sensitized solar cells with different nitrogen additives at elevated temperaturesâ€”Can sterically hindered pyridines prevent dye degradation?. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1582-1590.	3.0	67
1972	Transparent conductive characteristics of Ti:ITO films deposited by RF magnetron sputtering at low substrate temperature. <i>Surface and Coatings Technology</i> , 2010, 205, S210-S215.	2.2	32
1973	Nanoengineering with residual catalyst from CNT templates. <i>Acta Materialia</i> , 2010, 58, 4406-4413.	3.8	19
1974	H <sub>2</sub> â€”O <sub>2</sub> promoting effect on photocatalytic degradation of organic pollutants in an aqueous solution without an external H <sub>2</sub> supply. <i>Applied Catalysis A: General</i> , 2010, 380, 178-184.	2.2	8
1975	Solar photoactivity of nano-N-TiO <sub>2</sub> from tertiary amine: role of defects and paramagnetic species. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 314-322.	10.8	167
1976	Highly ordered TiO <sub>2</sub> nanotube arrays and photoelectrocatalytic oxidation of aromatic amine. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 96-102.	10.8	80
1977	Efficiency improvement of the DSSCs by building the carbon black as bridge in photoelectrode. <i>Applied Energy</i> , 2010, 87, 2500-2505.	5.1	43
1978	Study on the surface erosion route to the fabrication of TiO <sub>2</sub> hollow spheres. <i>Applied Surface Science</i> , 2010, 256, 2596-2601.	3.1	28
1979	Moleculeâ€”solid interaction: Electronic states of anthracene-9-carboxylic acid adsorbed on the surface of TiO <sub>2</sub> . <i>Applied Surface Science</i> , 2010, 256, 4854-4858.	3.1	7
1980	Structural, optical and electrochemical properties of TiO <sub>2</sub> thin films grown by APCVD method. <i>Applied Surface Science</i> , 2010, 256, 4065-4071.	3.1	39
1981	Electrochemical impedance analysis of nanoporous TiO <sub>2</sub> electrode at low bias potential. <i>Chinese Chemical Letters</i> , 2010, 21, 959-962.	4.8	13
1982	High dispersion Pt nanoparticles using mesoporous carbon support for enhancing conversion efficiency of dye-sensitized solar cells. <i>Chinese Chemical Letters</i> , 2010, 21, 1513-1516.	4.8	11
1983	Harnessing supramolecular interactions in organic solid-state devices: Current status and future potential. <i>Coordination Chemistry Reviews</i> , 2010, 254, 2429-2445.	9.5	111
1984	Energy Conversion in Natural and Artificial Photosynthesis. <i>Chemistry and Biology</i> , 2010, 17, 434-447.	6.2	366
1985	Analytical and numerical study of photocurrent transients in organic polymer solar cells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1722-1732.	3.4	27
1986	Preparation and characterization of monodisperse Ce-doped TiO <sub>2</sub> microspheres with visible light photocatalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 372, 107-114.	2.3	124
1987	Rapid synthesis of silver nanoparticles using dried medicinal plant of basil. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 81, 81-86.	2.5	539
1988	Preparation of nanoporous F-doped tin dioxide films for TCO-less dye-sensitized solar cells application. <i>Current Applied Physics</i> , 2010, 10, S172-S175.	1.1	19

#	ARTICLE	IF	CITATIONS
1989	The analysis of the change in the performance and impedance of dye-sensitized solar cell according to the dye-adsorption time. <i>Current Applied Physics</i> , 2010, 10, S418-S421.	1.1	19
1990	Thermal behavior, microstructure, phase transformation, and crystal growth kinetics of nano-scale Fe <sup>3+</sup> -doped TiO <sub>2</sub> xerogel powders. <i>Current Applied Physics</i> , 2010, 10, 1360-1365.	1.1	10
1991	Direct vs. indirect injection mechanisms in perylene dye-sensitized solar cells: A DFT/TDDFT investigation. <i>Chemical Physics Letters</i> , 2010, 493, 323-327.	1.2	118
1992	Quasi-solid-state dye-sensitized solar cell based on a polymer gel electrolyte with in situ synthesized ionic conductors. <i>Comptes Rendus Chimie</i> , 2010, 13, 1401-1405.	0.2	15
1993	Development of liquid crystal embedded in polymer electrolytes composed of click polymers for dye-sensitized solar cell applications. <i>Dyes and Pigments</i> , 2010, 86, 259-265.	2.0	16
1994	The effect of anchoring group number on the performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2010, 87, 249-256.	2.0	65
1995	Low-temperature formation of efficient dye-sensitized electrodes employing nanoporous TiO <sub>2</sub> spheres. <i>Electrochemistry Communications</i> , 2010, 12, 1283-1286.	2.3	24
1996	Synthesis of a novel imidazolium-based electrolytes and application for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 1483-1488.	2.6	38
1997	Faster dye-adsorption of dye-sensitized solar cells by applying an electric field. <i>Electrochimica Acta</i> , 2010, 55, 4120-4123.	2.6	39
1998	Enhancement of photocurrents due to the oxidation of water and organic compounds at BiZn <sub>2</sub> VO <sub>6</sub> particulate thin film electrodes by treatment with a TiCl <sub>4</sub> solution. <i>Electrochimica Acta</i> , 2010, 55, 4130-4136.	2.6	7
1999	Synthesis of a novel alkylimidazolium iodide containing an amide group for electrolyte of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 5652-5658.	2.6	5
2000	Novel chemically cross-linked solid state electrolyte for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 5803-5807.	2.6	8
2001	Influence of iodine concentration on the photoelectrochemical performance of dye-sensitized solar cells containing non-volatile electrolyte. <i>Electrochimica Acta</i> , 2010, 55, 7225-7229.	2.6	35
2002	4,4'-Bis(2,2,2-trifluoroethoxymethyl)-2,2'-bipyridine. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, o289-o291.	0.4	4
2003	Picosecond and femtosecond X-ray absorption spectroscopy of molecular systems. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 229-239.	0.3	60
2004	Excited-state molecular structures captured by X-ray transient absorption spectroscopy: a decade and beyond. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 240-251.	0.3	83
2005	Synthesis, Crystal Structure and Optical Properties of LaNbON <sub>2</sub> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 905-912.	0.6	47
2006	Synthesis and characterization of cross-linkable ruthenium complex dye and its application on dye-sensitized solar cells. <i>Journal of Polymer Science Part A</i> , 2010, 48, 366-372.	2.5	16

#	ARTICLE	IF	CITATIONS
2007	Life cycle analysis of organic photovoltaic technologies. Progress in Photovoltaics: Research and Applications, 2010, 18, 535-558.	4.4	156
2008	Low-temperature fabrication of flexible TiO <sub>2</sub> electrode for dye-sensitized solar cells. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2201-2206.	0.8	12
2009	Hybrid polymer/TiO <sub>2</sub> films by in situ hydrolysis condensation of titanium alkoxide precursors for photovoltaic transparent windows. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1627-1630.	0.8	2
2010	Efficient and Stable Solid-State Dye-Sensitized Solar Cells Based on a High-Molar-Extinction-Coefficient Sensitizer. Small, 2010, 6, 319-324.	5.2	74
2011	Energy Transfer in Ionic-Liquid-Functionalized Inorganic Nanorods for Highly Efficient Photocatalytic Applications. Small, 2010, 6, 290-295.	5.2	20
2012	Preparation of Er <sup>3+</sup> :YAlO <sub>3</sub> /ZnO coating compound by sol-gel method and photocatalytic degradation of organic dyes under sun light irradiation. Inorganic Materials, 2010, 46, 399-404.	0.2	5
2013	Highly efficient photocathodes for dye-sensitized tandem solar cells. Nature Materials, 2010, 9, 31-35.	13.3	585
2014	An orthophosphate semiconductor with photooxidation properties under visible-light irradiation. Nature Materials, 2010, 9, 559-564.	13.3	1,807
2015	Exciton-like trap states limit electron mobility in TiO <sub>2</sub> nanotubes. Nature Nanotechnology, 2010, 5, 769-772.	15.6	237
2016	Biologically templated photocatalytic nanostructures for sustained light-driven water oxidation. Nature Nanotechnology, 2010, 5, 340-344.	15.6	221
2017	Pembuatan dan Penentuan Nilai Efisiensi Sel Surya Berpewarna Tersensitisasi dengan Senyawa Antosianin dari Buah Manggis (Garcinia mangostana L.) sebagai Pewarna Pensensitisasi. Jurnal Kimia Sains Dan Aplikasi, 2010, 13, 88-94.	0.1	4
2018	Pembuatan Dye-Sensitized Solar Cell dengan Memanfaatkan Fotosensitizer Ekstrak Kol Merah (Brassica Tj ETQq1 1 0.784314 rgBT /Ov	0.1	2
2019	Energy and power. , 0 , , 51-75.		0
2020	High-Pressure Study of Anatase TiO <sub>2</sub> . Materials, 2010, 3, 1509-1514.	1.3	15
2021	N-Aryl Arenedicarboximides as Tunable Panchromatic Dyes for Molecular Solar Cells. International Journal of Photoenergy, 2010, 2010, 1-7.	1.4	1
2022	Organic Solar Cells: Problems and Perspectives. International Journal of Photoenergy, 2010, 2010, 1-11.	1.4	82
2023	Bridged Phthalocyanine Systems for Sensitization of Nanocrystalline TiO <sub>2</sub> Films. International Journal of Photoenergy, 2010, 2010, 1-11.	1.4	13
2025	Surface-barrier Solar Cells. , 2010 , , 263-294.		0

#	ARTICLE	IF	CITATIONS
2026	Electron Transportation and Recombination in TiO <sub>2</sub> Film for Flexible Dye-Sensitized Solar Cell. Key Engineering Materials, 0, 451, 123-133.	0.4	1
2027	Light scattering with oxide nanocrystallite aggregates for dye-sensitized solar cell application. Journal of Nanophotonics, 2010, 4, 041540.	0.4	49
2028	Investigation of PEO-Imidazole Ionic Liquid Oligomer and Polymer Electrolytes for Dye-Sensitized Solar Cells. Key Engineering Materials, 2010, 451, 41-61.	0.4	2
2029	ZnO Porous Plate Films Application in Quantum Dot Sensitized Solar Cells. Advanced Materials Research, 2010, 123-125, 284-287.	0.3	1
2030	Research Progress of the Counter Electrode in Dye-Sensitized Solar Cells. Key Engineering Materials, 2010, 451, 63-78.	0.4	17
2031	UV Raman Spectroscopic Studies on Titania: Phase Transformation and Significance of Surface Phase in Photocatalysis. Nanostructure Science and Technology, 2010, , 153-184.	0.1	1
2032	Electrochemical and photocatalytic properties of TiO <sub>2</sub> /WO <sub>3</sub> photoelectrodes. , 2010, , .		2
2033	Fabrication of Nanocrystalline TiO <sub>2</sub> Films by Aerosol Deposition Method for Dye-Sensitized Solar Cells. Materials Science Forum, 2010, 654-656, 2807-2810.	0.3	2
2034	TiO <sub>2</sub> /Dye/Electrolyte Interface Engineering by Atomic Layer Deposited Ultra Thin SiO <sub>2</sub> for Improved Dye Sensitized Solar Cell Performance. Materials Research Society Symposia Proceedings, 2010, 1260, 1.	0.1	1
2035	Synthesis and Characterization of Titanium Dioxide Nanotubes for Photocatalytic Degradation of Aqueous Nitrobenzene in the Presence of Sunlight. Materials Science Forum, 0, 657, 62-74.	0.3	26
2036	CdS Quantum Dots Sensitized One-Dimensional ZnO Solar Cells with Improved Efficiency Using ZnS Shell Coating. , 2010, , .		0
2037	Photocatalytic Synthesis of Silver-Oxide Clathrate Ag <sub>7</sub> O <sub>8</sub> NO <sub>3</sub> . Journal of the Electrochemical Society, 2010, 157, E181.	1.3	10
2038	Layer-by-layer CdTe Nanoparticle Absorbers for ZnO Nanorod Solar Cells - The Influence of Annealing on Cell Performance. Materials Research Society Symposia Proceedings, 2010, 1260, 1.	0.1	1
2039	Enhanced photovoltaic effect of nanosecond-laser produced silicon nanocrystals embedded into TiO <sub>2</sub> nanotubes. , 2010, , .		0
2040	Influence of point defects on the performance of InVO <sub>4</sub> photoanodes. , 2010, , .		1
2041	Novel Organic Sensitizers with a Quinoline Unit for Efficient Dye-sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2010, 31, 125-132.	1.0	30
2042	Fabrication and Characterization of Dye-Sensitized Solar Cell with Different Microstructure ZnO. Materials Science Forum, 0, 663-665, 857-860.	0.3	2
2043	Ordered titanium dioxide nanotubes filled with photoluminescent surfactant-free silicon nanocrystals. Nanotechnology, 2010, 21, 215203.	1.3	15

#	ARTICLE	IF	CITATIONS
2044	Exact Calculation of Local Density of States in Two-Dimensional Photonic Crystals. Chinese Physics Letters, 2010, 27, 104213.	1.3	2
2045	Doubly $\text{I}^{2+}$ -Functionalized Zinc(II) Porphyrin-sensitized $\text{TiO}_2$ Solar Cells. Journal of the Chinese Chemical Society, 2010, 57, 1111-1118.	0.8	12
2046	Optimizing photoelectrochemical properties of $\text{TiO}_2$ chemical codoping. Physical Review B, 2010, 82, .	1.1	62
2047	Monolithic $\text{In}_2\text{S}_3/\text{V}$ nanowire PV for photoelectrochemical hydrogen generation. , 2010, , .		0
2048	Graphene-incorporated nanocrystalline $\text{TiO}_2$ films for dye-sensitized solar cells. , 2010, , .		0
2049	Dye-sensitized solar cells: Effect of Ar/O <sub>2</sub> gas-flow ratio on the structural and morphological properties of facing-target sputter-deposited $\text{TiO}_2$ electrode. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1269-1274.	0.9	1
2050	Photoelectric performance of $\text{TiO}_2$ nanotube array photoelectrodes cosensitized with CdS/CdSe quantum dots. Applied Physics Letters, 2010, 96, .	1.5	61
2051	Ultrafast terahertz photoconductivity in nanocrystalline mesoporous $\text{TiO}_2$ films. Applied Physics Letters, 2010, 96, 062103.	1.5	20
2052	Nanoconfined ionic liquids under electric fields. Applied Physics Letters, 2010, 96, .	1.5	73
2053	$\text{TiO}_2$ thin-film transistors fabricated by spray pyrolysis. Applied Physics Letters, 2010, 96, .	1.5	50
2054	The efficiency limit of solar cells with molecular absorbers: A master equation approach. Journal of Applied Physics, 2010, 108, 124506.	1.1	22
2055	Energy-Conversion Properties of Vapor-Liquid-Solid-Grown Silicon Wire-Array Photocathodes. Science, 2010, 327, 185-187.	6.0	489
2056	The effect of annealing on the photoconductivity of carbon nanofiber/ $\text{TiO}_2$ core-shell nanowires for use in dye-sensitized solar cells. Applied Physics Letters, 2010, 97, 043102.	1.5	9
2057	Enhanced ultraviolet electroluminescence from ZnO nanowires in $\text{TiO}_2/\text{ZnO}$ coaxial nanowires/poly(3,4-ethylenedioxythiophene)-poly(styrene-sulfonate) heterojunction. Journal of Applied Physics, 2010, 107, 034310.	1.1	19
2058	Model relation between the energy-band edge and the Fermi level of the nondegenerate semiconductor $\text{TiO}_2$ Application to electrochemistry. Physical Review B, 2010, 82, .	1.1	10
2059	A New Microstructured DSC Photoelectrode for Potential High Power Conversion Efficiency. Journal of the Chinese Chemical Society, 2010, 57, 1119-1126.	0.8	1
2060	Overview of atomic layer deposited metal oxides for treating nanoporous $\text{TiO}_2$ photoelectrode for dye sensitized solar cells. , 2010, , .		1
2061	Preparation and DSSC Performance of Mesoporous Film Photoanodes Based on Aqueous-Synthesized Anatase Nanocrystallites. Electrochemical and Solid-State Letters, 2010, 13, H257.	2.2	19



#	ARTICLE	IF	CITATIONS
2062	Mitigation of solvent evaporation in dye-sensitized solar cells based on liquid electrolyte by introducing regular-spacing patterned polymer films. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2010, 33, 791-797.	0.6	2
2063	Synthesis and Characterization of Poly(methyl methacrylate)- <i>b</i> -Polystyrene/TiO <sub>2</sub> Nanocomposites Via Reversible Addition-Fragmentation Chain Transfer Polymerization. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 903-908.	1.2	14
2064	Fabrication of dye sensitized solar cell with surface textured substrates. , 2010, , .		1
2065	Aligning electronic energy levels at the $\text{TiO}_2$ Physical Review B, 2010, 82, .	1.1	115
2066	Theoretical analysis of small Pt particles on rutile TiO <sub>2</sub> (110) surfaces. Physical Review B, 2010, 82, .	1.1	38
2067	Hydrogen: A future energy vector for sustainable development. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2010, 224, 539-558.	1.1	54
2068	Synthesis and Spectroscopic Properties of Porphyrin Derivatives of C60. Molecular Crystals and Liquid Crystals, 2010, 521, 253-264.	0.4	3
2069	Synthesis and characterization of band gap-reduced ZnO:N and ZnO:(Al,N) films for photoelectrochemical water splitting. Journal of Materials Research, 2010, 25, 69-75.	1.2	56
2070	X-ray absorption and photoemission spectroscopy of zinc protoporphyrin adsorbed on rutile TiO <sub>2</sub> (110) prepared by in situ electrospray deposition. Journal of Chemical Physics, 2010, 132, 084703.	1.2	52
2071	Development of Visible-Light-Driven TiO <sub>2</sub> and SrTiO <sub>3</sub> Photocatalysts Doped with Metal Cations for H <sub>2</sub> or O <sub>2</sub> Evolution. Solid State Phenomena, 0, 162, 29-40.	0.3	11
2072	Structural properties characterization of TiO <sub>2</sub> thin films prepared by sol-gel process on Si and Ge based substrates. , 2010, , .		0
2073	Study in the porosity of the TiO <sub>2</sub> films prepared by magnetron sputtering deposition. , 2010, , .		0
2074	An atomistic picture of the regeneration process in dye sensitized solar cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4830-4833.	3.3	89
2075	FIXATION OF CARBON NANOTUBE WITHIN MESOPOROUS TITANIA PARTICLES. Functional Materials Letters, 2010, 03, 115-118.	0.7	0
2076	Surface plasmon enhanced photoconductance and single electron effects in mesoporous titania nanofibers loaded with gold nanoparticles. Applied Physics Letters, 2010, 96, .	1.5	35
2077	Peroxidase biocathodes for a biofuel cell development. Journal of Renewable and Sustainable Energy, 2010, 2, .	0.8	29
2078	Visible-light assisted methylene blue (MB) removal by novel TiO <sub>2</sub> /adsorbent nanocomposites. Water Science and Technology, 2010, 61, 2863-2871.	1.2	18
2079	Low Cost, Environmentally Friendly, In Situ Prepared Quasi-Solid-State Al <sub>3</sub> Electrolyte for Dye-Sensitized Solar Cells. Electrochemical and Solid-State Letters, 2010, 13, B11.	2.2	4

#	ARTICLE	IF	CITATIONS
2080	Characterization and Formation Process of Highly Crystallized Single Crystalline TiO <sub>2</sub> Nanorods for Dye-Sensitized Solar Cells. <i>Current Nanoscience</i> , 2010, 6, 269-276.	0.7	12
2081	Molecular approaches to third generation photovoltaics: photochemical up-conversion. , 2010, , .		5
2082	State of the Art of Photovoltaic Technologies. <i>Science Progress</i> , 2010, 93, 361-392.	1.0	6
2083	Formation of Porous Titanium Film and Its Application to Counter Electrode for Dye-Sensitized Solar Cell. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 122302.	0.8	10
2084	Controlling the conductance of molecular wires by defect engineering. <i>New Journal of Physics</i> , 2010, 12, 063004.	1.2	25
2086	Dissociation of water over Ti-decorated C <sub>60</sub> . <i>Journal of Chemical Physics</i> , 2010, 133, 084510.	1.2	13
2087	In-situ X-ray Absorption Fine Structure Study of TiO <sub>2</sub> Nanoparticles under Ultraviolet Light. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 031105.	0.8	14
2088	The rapid growth of 3 Åµm long titania nanotubes by anodization of titanium in a neutral electrochemical bath. <i>Nanotechnology</i> , 2010, 21, 055601.	1.3	27
2089	Toward Optimization of Oligothiophene Antennas: New Ruthenium Sensitizers with Excellent Performance for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2010, 22, 4392-4399.	3.2	39
2090	Improving charge separation of solar cells by the co-sensitization of CdS quantum dots and dye. <i>Semiconductor Science and Technology</i> , 2010, 25, 095014.	1.0	21
2091	Critical Nuclei Size, Initial Particle Size and Packing Effect on the Phase Stability of Sol-Preparation-Gel-Derived Nanostructured Titania. <i>Langmuir</i> , 2010, 26, 4567-4571.	1.6	20
2092	Intrinsic defects and their influence on the chemical and optical properties of TiO <sub>2</sub> films. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 485402.	1.3	48
2093	Indium Chalcogenido Clusters Coordinated by 1,10-Phenanthroline, [InQ(phen)Cl] <sub>4</sub> (Q = Se, S), a Simplified Model of Inorganic-Organic Hybrid Material with Cluster-to-Ligand Charge Transfer. <i>Inorganic Chemistry</i> , 2010, 49, 353-355.	1.9	14
2094	Interfacial Confined Formation of Mesoporous Spherical TiO <sub>2</sub> Nanostructures with Improved Photoelectric Conversion Efficiency. <i>Inorganic Chemistry</i> , 2010, 49, 5453-5459.	1.9	58
2095	High performance organic photosensitizers for dye-sensitized solar cells. <i>Chemical Communications</i> , 2010, 46, 1335.	2.2	124
2096	Carbon Nanotube-Inorganic Hybrids. <i>Chemical Reviews</i> , 2010, 110, 1348-1385.	23.0	762
2097	Importance of Dynamics in Electron Excitation and Transfer of Organic Dyes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19521-19528.	1.5	25
2098	Theoretical Demonstration of Efficiency Enhancement of Dye-Sensitized Solar Cells with Double-Inverse Opal as Mirrors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10641-10647.	1.5	21

#	ARTICLE	IF	CITATIONS
2099	TiO <sub>2</sub> nanotubes and their application in dye-sensitized solar cells. <i>Nanoscale</i> , 2010, 2, 45-59.	2.8	571
2100	Fabrication of dye-sensitized solar cells using natural dye for food pigment: Monascus yellow. <i>Energy and Environmental Science</i> , 2010, 3, 905.	15.6	67
2101	Synchronously Reduced Surface States, Charge Recombination, and Light Absorption Length for High-Performance Organic Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4461-4464.	1.2	188
2102	Significance of Hydrophilic Characters of Organic Dyes in Visible-Light Hydrogen Generation Based on TiO <sub>2</sub> . <i>Organic Letters</i> , 2010, 12, 460-463.	2.4	65
2103	Heterogeneous photocatalytic cleavage of water. <i>Journal of Materials Chemistry</i> , 2010, 20, 627-641.	6.7	234
2104	Carbon Nanotubes: The Minuscule Wizards. <i>Advanced Structured Materials</i> , 2010, , 1-22.	0.3	2
2105	Modelling nano-clusters and nucleation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 786-811.	1.3	174
2106	TiO <sub>2</sub> Nanowire Growth Driven by Phosphorus-Doped Nanocatalysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10697-10702.	1.5	27
2107	Facile synthesis of mesoporous N doped zirconium titanium mixed oxide nanomaterial with enhanced photocatalytic activity under visible light. <i>Journal of Materials Chemistry</i> , 2010, 20, 10876.	6.7	22
2108	Quantum-Dot-Sensitized Solar Cell Using a Photoanode Prepared by in Situ Photodeposition of CdS on Nanocrystalline TiO <sub>2</sub> Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16837-16842.	1.5	52
2109	Preparation and Photoelectrochemical Properties of CdSe/TiO <sub>2</sub> Hybrid Mesoporous Structures. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 155-160.	2.1	142
2110	Synthesis and Oxygen Reduction Activity of Shape-Controlled Pt <sub>3</sub> Ni Nanopolyhedra. <i>Nano Letters</i> , 2010, 10, 638-644.	4.5	744
2111	High performance separation of aerosol sprayed mesoporous TiO <sub>2</sub> sub-microspheres from aggregates via density gradient centrifugation. <i>Journal of Materials Chemistry</i> , 2010, 20, 4162.	6.7	18
2112	Two-Step Sol-Gel Method-Based TiO <sub>2</sub> Nanoparticles with Uniform Morphology and Size for Efficient Photo-Energy Conversion Devices. <i>Chemistry of Materials</i> , 2010, 22, 1958-1965.	3.2	166
2113	Metal Oxide Nanopowder. , 2010, , 325-385.		1
2114	Tetragonal faceted-nanorods of anatase TiO <sub>2</sub> single crystals with a large percentage of active {100} facets. <i>Chemical Communications</i> , 2010, 46, 2301.	2.2	241
2115	Photocatalytic hydrogen evolution on dye-sensitized mesoporous carbon nitride photocatalyst with magnesium phthalocyanine. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13020.	1.3	325
2116	Substitution-controlled ultrafast excited-state processes in Ru <sup>II</sup> -dppz-derivatives. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1357-1368.	1.3	62

#	ARTICLE	IF	CITATIONS
2117	Nanomaterials via NanoSpray Combustion Chemical Vapor Condensation, and Their Electronic Applications. , 2010, , 139-166.		2
2118	Electrophoretic deposition of uniformly distributed TiO <sub>2</sub> nanoparticles using an anodic aluminum oxide template for efficient photolysis. Nanotechnology, 2010, 21, 115206.	1.3	16
2119	Effect of Calcination Temperature on the Photocatalytic Reduction and Oxidation Processes of Hydrothermally Synthesized Titania Nanotubes. Journal of Physical Chemistry C, 2010, 114, 12994-13002.	1.5	114
2120	Dye-Sensitized TiO <sub>2</sub> Nanotube Solar Cells with Markedly Enhanced Performance via Rational Surface Engineering. Chemistry of Materials, 2010, 22, 579-584.	3.2	265
2121	Sulfamic Acid-Doped Polyaniline Nanofibers Thin Film-Based Counter Electrode: Application in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 4760-4764.	1.5	129
2122	Novel nanowire array based highly efficient quantum dot sensitized solar cell. Chemical Communications, 2010, 46, 5521.	2.2	232
2123	Photoelectrochemical Water Oxidation by Cobalt Catalyst (Co <sup>2+</sup> /Fe <sub>2</sub> O <sub>3</sub> ) Composite Photoanodes: Oxygen Evolution and Resolution of a Kinetic Bottleneck. Journal of the American Chemical Society, 2010, 132, 4202-4207.	6.6	609
2124	An Aminolytic Approach toward Hierarchical Ni(OH) <sub>2</sub> Nanoporous Architectures: A Bimodal Forum for Photocatalytic and Surface-Enhanced Raman Scattering Activity. Inorganic Chemistry, 2010, 49, 8813-8827.	1.9	71
2125	Semiconducting Oxides to Facilitate the Conversion of Solar Energy to Chemical Fuels. Journal of Physical Chemistry Letters, 2010, 1, 2719-2726.	2.1	96
2126	Determination of the Electron Diffusion Length in Dye-Sensitized Solar Cells by Random Walk Simulation: Compensation Effects and Voltage Dependence. Journal of Physical Chemistry C, 2010, 114, 8552-8558.	1.5	66
2127	Electron Attachment to Dye-Sensitized Solar Cell Components: Rhodanine and Rhodanine-3-acetic Acid. Journal of Physical Chemistry C, 2010, 114, 1725-1732.	1.5	13
2128	Highly efficient electro-optic polymers through improved poling using a thin TiO <sub>2</sub> -modified transparent electrode. Applied Physics Letters, 2010, 96, .	1.5	70
2129	DFT Study on Anatase TiO <sub>2</sub> Nanowires: Structure and Electronic Properties As Functions of Size, Surface Termination, and Morphology. Journal of Physical Chemistry C, 2010, 114, 12389-12400.	1.5	48
2130	Generation of Photocurrents by Bis-aniline-Cross-Linked Pt Nanoparticle/Photosystem I Composites on Electrodes. Journal of Physical Chemistry B, 2010, 114, 14383-14388.	1.2	70
2131	Spectroscopic Studies of Electron Injection in Quantum Dot Sensitized Mesoporous Oxide Films. Journal of Physical Chemistry C, 2010, 114, 18866-18873.	1.5	47
2132	Self-Assembled Heterosupramolecular Visible Light Photocatalyst Consisting of Gold Nanoparticle-Loaded Titanium(IV) Dioxide and Surfactant. Journal of the American Chemical Society, 2010, 132, 6292-6293.	6.6	167
2133	Controlling synthesis of well-crystallized mesoporous TiO <sub>2</sub> microspheres with ultrahigh surface area for high-performance dye-sensitized solar cells. Journal of Materials Chemistry, 2010, 20, 2870.	6.7	168
2135	Towards chemically bonded p-n heterojunctions through surface initiated electrodeposition of p-type conducting polymer inside TiO <sub>2</sub> nanotubes. Journal of Materials Chemistry, 2010, 20, 6910.	6.7	41

#	ARTICLE	IF	CITATIONS
2136	Examining architectures of photoanode“photovoltaic tandem cells for solar water splitting. Journal of Materials Research, 2010, 25, 17-24.	1.2	166
2137	Space-Limited Crystal Growth Mechanism of TiO <sub>2</sub> Films by Atomic Layer Deposition. Journal of Physical Chemistry C, 2010, 114, 6917-6921.	1.5	45
2138	Direct probe of heterojunction effects upon photoconductive properties of TiO <sub>2</sub> nanotubes fabricated by atomic layer deposition. Nanotechnology, 2010, 21, 225602.	1.3	51
2139	Solar-Driven Microbial Photoelectrochemical Cells with a Nanowire Photocathode. Nano Letters, 2010, 10, 4686-4691.	4.5	197
2140	Synthesis and preliminary photovoltaic behavior study of a soluble polyimide containing ruthenium complexes. Polymer Chemistry, 2010, 1, 1048.	1.9	19
2141	IMPROVED PHOTOCATALYTIC ACTIVITY OF SURFACE MODIFIED TiO <sub>2</sub> WITH PLATINUM. International Journal of Nanoscience, 2010, 09, 579-583.	0.4	6
2142	Nanophase Evolution at Semiconductor/Electrolyte Interface in Situ Probed by Time-Resolved High-Energy Synchrotron X-ray Diffraction. Nano Letters, 2010, 10, 3747-3753.	4.5	22
2143	Cyclic tetrapyrrole based molecules for dye-sensitized solar cells. Energy and Environmental Science, 2010, 3, 94-106.	15.6	153
2144	Efficient Dye-Sensitized Solar Cells with an Organic Photosensitizer Featuring Orderly Conjugated Ethylenedioxythiophene and Dithienosilole Blocks. Chemistry of Materials, 2010, 22, 1915-1925.	3.2	933
2145	Singlet Fission. Chemical Reviews, 2010, 110, 6891-6936.	23.0	1,639
2146	Functionalization of Oxide Surfaces by Terpyridine Phosphonate Ligands: Surface Reactions and Anchoring Geometry. Langmuir, 2010, 26, 8400-8406.	1.6	86
2147	Polyphenylene-Based Materials for Organic Photovoltaics. Chemical Reviews, 2010, 110, 6817-6855.	23.0	617
2148	Three-dimensional double deck meshlike dye-sensitized solar cells. Journal of Applied Physics, 2010, 108, .	1.1	13
2149	Comparison of Dye Photodegradation and its Coupling with Light-to-Electricity Conversion over TiO <sub>2</sub> and ZnO. Langmuir, 2010, 26, 591-597.	1.6	254
2150	Nanodome Solar Cells with Efficient Light Management and Self-Cleaning. Nano Letters, 2010, 10, 1979-1984.	4.5	874
2151	Synthesis of Hierarchical Porous ZnO Disklike Nanostructures for Improved Photovoltaic Properties of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 13157-13161.	1.5	53
2152	Electrocatalytic sulfur electrodes for CdS/CdSe quantum dot-sensitized solar cells. Chemical Communications, 2010, 46, 5485.	2.2	272
2153	Photoelectrochemical water splitting using visible-light-responsive BiVO <sub>4</sub> fine particles prepared in an aqueous acetic acid solution. Journal of Materials Chemistry, 2010, 20, 7536.	6.7	197

#	ARTICLE	IF	CITATIONS
2154	Bulk and Interfacial Nanostructure in Protic Room Temperature Ionic Liquids. ACS Symposium Series, 2010, , 317-333.	0.5	5
2155	Efficient phenylmercury(ii) methylferrocenyldithiocarbamate functionalized dye-sensitized solar cells. Dalton Transactions, 2010, 39, 9779.	1.6	66
2156	Effect of the Compact TiO <sub>2</sub> Layer on Charge Transfer between N3 Dyes and TiO <sub>2</sub> Investigated by Raman Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 3185-3189.	1.5	39
2157	Excited-State Dynamics in <i>fac</i> -[Re(CO) <sub>3</sub> (Me <sub>4</sub> phen)(L)] <sup>+</sup> . Journal of Physical Chemistry A, 2010, 114, 12129-12137.	1.1	56
2158	Ultrafast Carrier Dynamics in Type II ZnSe/CdS/ZnSe Nanobarells. ACS Nano, 2010, 4, 1837-1844.	7.3	93
2159	Role of Solvent Dynamics in Ultrafast Photoinduced Proton-Coupled Electron Transfer Reactions in Solution. Journal of Physical Chemistry B, 2010, 114, 12319-12332.	1.2	66
2160	Electrocatalytic Activity of Graphene Multilayers toward I <sub>3</sub> <sup>-</sup> : Effect of Preparation Conditions and Polyelectrolyte Modification. Journal of Physical Chemistry C, 2010, 114, 15857-15861.	1.5	63
2161	Bimetallic Ru Electrocatalysts for the OER and Electrolytic Water Splitting in Acidic Media. Electrochemical and Solid-State Letters, 2010, 13, B36.	2.2	147
2162	Molecular Scale Characterization of the Titania <sup>+</sup> Dye <sup>-</sup> Solvent Interface in Dye-Sensitized Solar Cells. Langmuir, 2010, 26, 9612-9616.	1.6	25
2163	Cluster Study of the Photo-Oxidation of Water on Rutile Titanium Dioxide (TiO <sub>2</sub> ). Journal of Physical Chemistry C, 2010, 114, 1701-1708.	1.5	74
2164	Diketopyrrolopyrrole-Based Donor <sup>+</sup> Acceptor Copolymers as Organic Sensitizers for Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 3287-3291.	1.5	43
2165	Self-Organization of Anatase TiO <sub>2</sub> Nanoparticles to Regular Shape Clusters. Crystal Growth and Design, 2010, 10, 1721-1724.	1.4	5
2166	Monolayer Structure of Arachidic Acid on Graphite. Journal of Physical Chemistry C, 2010, 114, 18919-18924.	1.5	21
2167	Electrodeposited Aluminum-Doped Fe <sub>2</sub> O <sub>3</sub> Photoelectrodes: Experiment and Theory. Chemistry of Materials, 2010, 22, 510-517.	3.2	240
2168	Structural-Dependent Photoactivities of TiO <sub>2</sub> Nanoribbon for Visible-Light-Induced H <sub>2</sub> Evolution: The Roles of Nanocavities and Alternate Structures. Langmuir, 2010, 26, 447-455.	1.6	41
2169	Visible Light Sensitization of TiO <sub>2</sub> Surfaces with Alq <sub>3</sub> Complexes. Journal of Physical Chemistry C, 2010, 114, 1317-1325.	1.5	37
2170	Photoanodic Polarization Behavior of TiO <sub>2</sub> with Dye Sensitization for Electrochemical Polymerization of Pyrrole. Journal of the Electrochemical Society, 2010, 157, H1127.	1.3	3
2171	Role of Hydroxyl Groups in the NH <sub>2</sub> (x = 1-3) Adsorption on the TiO <sub>2</sub> Anatase (101) Surface Determined by a First-Principles Study. Langmuir, 2010, 26, 4813-4821.	1.6	28

#	ARTICLE	IF	CITATIONS
2172	A Fused Donor-Acceptor System Based on an Extended Tetrathiafulvalene and a Ruthenium Complex of Dipyridoquinoxaline. <i>Organic Letters</i> , 2010, 12, 4868-4871.	2.4	20
2173	Unusual Photophysical Properties of a Ruthenium(II) Complex Related to [Ru(bpy) <sub>2</sub> (dppz)] <sup>2+</sup> . <i>Inorganic Chemistry</i> , 2010, 49, 4257-4262.	1.9	104
2174	Dynamics of Photoinduced Proton-Coupled Electron Transfer at Molecule-Semiconductor Interfaces: A Reduced Density Matrix Approach. <i>Journal of Physical Chemistry C</i> , 2010, 114, 487-496.	1.5	24
2175	Synthesis and Characterization of Size-Controlled TiO <sub>2</sub> Microspheres with Wormhole Mesoporous Structure. <i>Materials and Manufacturing Processes</i> , 2010, 25, 990-993.	2.7	7
2176	First-Principles Calculations of Hydrogen Generation Due to Water Splitting on Polar GaN Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18228-18232.	1.5	41
2177	Epitaxial Growth and Orientational Dependence of Surface Photochemistry in Crystalline TiO <sub>2</sub> Rutile Films Doped with Nitrogen. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6595-6601.	1.5	17
2178	Characterizing the Adsorption of Peptides to TiO <sub>2</sub> in Aqueous Solutions by Liquid Chromatography. <i>Langmuir</i> , 2010, 26, 6457-6463.	1.6	28
2179	Direct Observation of Surface-Mediated Electron-Hole Pair Recombination in TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 3098-3101.	1.5	104
2180	Preparation of a pristine TiO <sub>2</sub> anatase (101) surface by cleaving. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 084014.	0.7	8
2181	Photoinduced Electron Transfer of Oxazine 1/TiO <sub>2</sub> Nanoparticles at Single Molecule Level by Using Confocal Fluorescence Microscopy. <i>Langmuir</i> , 2010, 26, 9050-9060.	1.6	8
2182	Synthesis of activated carbon-surrounded and carbon-doped anatase TiO <sub>2</sub> nanocomposites. <i>Journal of Materials Chemistry</i> , 2010, 20, 5682.	6.7	50
2183	Nanostructured thin films as functional coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 12, 012017.	0.3	6
2184	Spin-Orbit Coupling and Metal-Ligand Interactions in Fe(II), Ru(II), and Os(II) Complexes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10314-10322.	1.5	44
2185	Charge Separation in Type II Tunneling Multilayered Structures of CdTe and CdSe Nanocrystals Directly Proven by Surface Photovoltage Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 5981-5983.	6.6	133
2186	Enhanced Electron Collection in TiO <sub>2</sub> Nanoparticle-Based Dye-Sensitized Solar Cells by an Array of Metal Micropillars on a Planar Fluorinated Tin Oxide Anode. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19151-19156.	1.5	32
2187	Nanoparticle synthesis using high-powered pulse-modulated induction thermal plasma. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 265201.	1.3	28
2188	Organometallic Quinonoid Linkers: A Versatile Tether for the Design of Panchromatic Ruthenium(II) Heteroleptic Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 10762-10764.	1.9	21
2189	Processing Temperature and Surface Na Content of TiO <sub>2</sub> Nanocrystallites in Films for Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20049-20054.	1.5	3

#	ARTICLE	IF	CITATIONS
2190	Insertion-Coupling-Cycloisomerization Domino Synthesis and Cation-Induced Halochromic Fluorescence of 2,4-Diarylpyrano[2,3- <i>b</i> ]indoles. <i>Organic Letters</i> , 2010, 12, 4122-4125.	2.4	35
2191	Hydrolysis of $\text{TiCl}_4$ : Initial Steps in the Production of $\text{TiO}_2$ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 7561-7570.	1.1	107
2192	Polymer Nanocomposites as Solid Electrolytes: Evaluating Ion-Polymer and Polymer-Nanoparticle Interactions in PEG-PU/PAN Semi-IPNs and Titania Systems. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14281-14289.	1.5	20
2193	Synthesis, growth mechanism and photoelectrochemical properties of $\text{BiVO}_4$ microcrystal electrodes. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 405402.	1.3	41
2194	Synthesis, Excited State Dynamics, and Optical Characteristics of Oligophenyl-Based Swivel Cruciforms in Solution and Solid State. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12765-12776.	1.2	5
2195	Influence of Electrolyte Composition on the Photovoltaic Performance and Stability of Dye-Sensitized Solar Cells with Multiwalled Carbon Nanotube Catalysts. <i>Langmuir</i> , 2010, 26, 10341-10346.	1.6	69
2196	Facile Formation of Branched Titanate Nanotubes to Grow a Three-Dimensional Nanotubular Network Directly on a Solid Substrate. <i>Langmuir</i> , 2010, 26, 1574-1578.	1.6	20
2197	Electrolyte Effects on Electron Transport and Recombination at ZnO Nanorods for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17880-17888.	1.5	78
2198	Photoelectronic characterization of IgG antibody molecule-quantum dot hybrid as biosensing probe. <i>Nanotechnology</i> , 2010, 21, 425501.	1.3	5
2199	Ultrafast Terahertz Conductivity Dynamics in Mesoporous $\text{TiO}_2$ : Influence of Dye Sensitization and Surface Treatment in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1365-1371.	1.5	84
2200	Cathodoluminescence Evaluation of Oxygen Vacancy Population in Nanostructured Titania Thin Films for Photocatalytic Applications. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5295-5298.	1.1	10
2201	Photophysical and Theoretical Studies of Ruthenium(II)-Acetylide and -Cyanide Complexes with Aromatic Diimine and Trithiacyclononane. <i>Organometallics</i> , 2010, 29, 6259-6266.	1.1	20
2202	Synthesis of Stable Mesostructured Coupled Semiconductor Thin Films: meso- $\text{CdS-TiO}_2$ and meso- $\text{CdSe-TiO}_2$ . <i>Langmuir</i> , 2010, 26, 538-544.	1.6	23
2203	Non-Prefabricated Nanocrystal Mesoporous $\text{TiO}_2$ -Based Photoanodes Tuned by A Layer-by-Layer and Rapid Thermal Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 265-269.	4.0	11
2204	Structure of the Ethylammonium Nitrate Surface: An X-ray Reflectivity and Vibrational Sum Frequency Spectroscopy Study. <i>Langmuir</i> , 2010, 26, 8282-8288.	1.6	62
2205	High Photocatalytic Activity of Rutile $\text{TiO}_2$ Induced by Iodine Doping. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6035-6038.	1.5	34
2206	High-speed growth of $\text{TiO}_2$ nanotube arrays with gradient pore diameter and ultrathin tube wall under high-field anodization. <i>Nanotechnology</i> , 2010, 21, 405302.	1.3	28
2207	Role of Benzyl Alcohol in Controlling the Growth of $\text{TiO}_2$ on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2462-2470.	1.5	51



#	ARTICLE	IF	CITATIONS
2208	Reversible Visible-Light Photooxidation of an Oxomanganese Water-Oxidation Catalyst Covalently Anchored to TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14214-14222.	1.2	56
2209	Studies of an Extremely High Molar Extinction Coefficient Ruthenium Sensitizer in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 1980-1986.	4.0	30
2210	Photovoltaic enhancement of Si solar cells by assembled carbon nanotubes. <i>Nano-Micro Letters</i> , 2010, 2, 22-25.	14.4	17
2211	Novel micro-ring structured ZnO photoelectrode for dye-sensitized solar cell. <i>Nano-Micro Letters</i> , 2010, 2, 53-55.	14.4	23
2212	Effect of Ligands with Extended $\pi$ -System on the Photophysical Properties of Ru(II) Complexes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14664-14670.	1.2	57
2213	Sensitization of Nanocrystalline TiO <sub>2</sub> Anchored with Pendant Catechol Functionality Using a New Tetracyanato Ruthenium(II) Polypyridyl Complex. <i>Inorganic Chemistry</i> , 2010, 49, 4167-4174.	1.9	41
2214	Incorporating Hierarchical Nanostructured Carbon Counter Electrode into Metal-Free Organic Dye-Sensitized Solar Cell. <i>Langmuir</i> , 2010, 26, 11238-11243.	1.6	104
2215	A spatially resolved study on the Sn diffusion during the sintering process in the active layer of dye sensitised solar cells. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7241.	1.3	12
2216	Tuning Spectral and Electrochemical Properties of Porphyrin-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12018-12023.	1.5	74
2217	New Efficient Ruthenium Sensitizers with Unsymmetrical Indeno[1,2- <i>b</i> ]thiophene or a Fused Dithiophene Ligand for Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2010, 49, 8351-8357.	1.9	47
2218	Porphyrin sensitized solar cells: TiO <sub>2</sub> sensitization with a $\pi$ -extended porphyrin possessing two anchoring groups. <i>Chemical Communications</i> , 2010, 46, 6090.	2.2	97
2219	Design and characterization of porphyrin sensitizers with a push-pull framework for highly efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 949.	15.6	165
2220	Molecular Structural Dynamics Probed by Ultrafast X-Ray Absorption Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 263-282.	4.8	150
2221	Titania-based photocatalysts' crystal growth, doping and heterostructuring. <i>Journal of Materials Chemistry</i> , 2010, 20, 831-843.	6.7	1,028
2222	Constructing Hierarchical Spheres from Large Ultrathin Anatase TiO <sub>2</sub> Nanosheets with Nearly 100% Exposed (001) Facets for Fast Reversible Lithium Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 6124-6130.	6.6	1,215
2223	Tunable Photocatalytic Selectivity of Hollow TiO <sub>2</sub> Microspheres Composed of Anatase Polyhedra with Exposed {001} Facets. <i>Journal of the American Chemical Society</i> , 2010, 132, 11914-11916.	6.6	979
2224	Anatase TiO <sub>2</sub> nanosheets with exposed (001) facets: improved photoelectric conversion efficiency in dye-sensitized solar cells. <i>Nanoscale</i> , 2010, 2, 2144.	2.8	423
2225	Application of Cu(II) and Zn(II) coproporphyrins as sensitizers for thin film dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 956.	15.6	37

#	ARTICLE	IF	CITATIONS
2226	High-Performance Single CdS Nanowire (Nanobelt) Schottky Junction Solar Cells with Au/Graphene Schottky Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 3406-3410.	4.0	108
2227	Photoelectrolysis of water: Solar hydrogen - achievements and perspectives. <i>Optics Express</i> , 2010, 18, A147.	1.7	55
2228	ZnO xerogel powders for photovoltaic applications. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 873-878.	1.5	7
2229	Preparation of TiO <sub>2</sub> films using nanopowder synthesized by flat-flame chemical vapor condensation method for DSSCs. <i>Journal of Alloys and Compounds</i> , 2010, 490, 493-498.	2.8	20
2230	Influence of anodisation voltage on the dimension of titania nanotubes. <i>Journal of Alloys and Compounds</i> , 2010, 503, 359-364.	2.8	76
2231	Synthesis and properties of TiO <sub>2</sub> based nanowires. <i>Journal of Alloys and Compounds</i> , 2010, 504, S361-S363.	2.8	3
2232	Electronic and optical properties of anatase TiO <sub>2</sub> nanotubes. <i>Computational Materials Science</i> , 2010, 48, 854-858.	1.4	40
2233	Photovoltaic performance of quasi-solid state dye sensitized solar cells based on perylene dye and modified TiO <sub>2</sub> photo-electrode. <i>Synthetic Metals</i> , 2010, 160, 127-133.	2.1	6
2234	A phenylenevinylene copolymer with perylene bisimide units as organic sensitizer for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2010, 160, 1427-1432.	2.1	7
2235	Molecular design of donor-acceptor-type cruciform dyes for efficient dyes-sensitized solar cells. <i>Synthetic Metals</i> , 2010, 160, 1754-1760.	2.1	29
2236	One-step preparation of silver nanoparticles confined in functionalized-free SBA-15 channels. <i>Synthetic Metals</i> , 2010, 160, 2099-2103.	2.1	8
2237	First-Principles Modeling of the Adsorption Geometry and Electronic Structure of Ru(II) Dyes on Extended TiO <sub>2</sub> Substrates for Dye-Sensitized Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6054-6061.	1.5	224
2238	Solar Energy Supply and Storage for the Legacy and Nonlegacy Worlds. <i>Chemical Reviews</i> , 2010, 110, 6474-6502.	23.0	2,676
2239	Solar Driven Water Oxidation by a Bioinspired Manganese Molecular Catalyst. <i>Journal of the American Chemical Society</i> , 2010, 132, 2892-2894.	6.6	414
2240	Photocatalytic performances of mesoporous TiO <sub>2</sub> films doped with gold clusters. <i>Journal of Materials Chemistry</i> , 2010, 20, 2831.	6.7	36
2241	Molecular Design of Anthracene-Bridged Metal-Free Organic Dyes for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9101-9110.	1.5	216
2242	Emerging Applications of TiO <sub>2</sub> -Based Composites. <i>Nanostructure Science and Technology</i> , 2010, , 717-739.	0.1	0
2243	Kinetic Competition in a Coumarin Dye-Sensitized Solar Cell: Injection and Recombination Limitations upon Device Performance. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8054-8061.	1.5	126

#	ARTICLE	IF	CITATIONS
2244	Semiconductor Nanowires for Energy Conversion. <i>Chemical Reviews</i> , 2010, 110, 527-546.	23.0	1,317
2245	Synthesis of Monodisperse Mesoporous Titania Beads with Controllable Diameter, High Surface Areas, and Variable Pore Diameters (14–23 nm). <i>Journal of the American Chemical Society</i> , 2010, 132, 4438-4444.	6.6	405
2246	Preparation and Spectral, Electrochemical, and Photovoltaic Properties of Acene-Modified Zinc Porphyrins. <i>Journal of Physical Chemistry C</i> , 2010, 114, 687-693.	1.5	105
2247	Theoretical Screening of $\text{NH}_2$ -, $\text{OH}$ -, $\text{CH}_3$ -, $\text{F}$ -, and $\text{SH}$ -Substituted Porphyrins As Sensitizer Candidates for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1973-1979.	1.1	61
2248	Nanoscale Advances in Catalysis and Energy Applications. <i>Nano Letters</i> , 2010, 10, 2289-2295.	4.5	374
2249	Hybrid solar cells based on poly(3-hexylthiophene) and electrospun $\text{TiO}_2$ nanofibers with effective interface modification. <i>Journal of Materials Chemistry</i> , 2010, 20, 7366.	6.7	88
2250	CdSe Quantum-Dot-Sensitized Solar Cell with $\sim 100\%$ Internal Quantum Efficiency. <i>ACS Nano</i> , 2010, 4, 6377-6386.	7.3	110
2251	Semiconductor-based Photocatalytic Hydrogen Generation. <i>Chemical Reviews</i> , 2010, 110, 6503-6570.	23.0	6,836
2252	Bonding of Methyl Phosphonate to $\text{TiO}_2(110)$ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 16983-16988.	1.5	23
2253	TEM Investigation and FBB Model Explanation to the Phase Relationships between Titanates and Titanium Dioxides. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11430-11434.	1.5	16
2254	Effect of Crystallization Methods on Morphology and Photocatalytic Activity of Anodized $\text{TiO}_2$ Nanotube Array Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19378-19385.	1.5	271
2255	First principles study of the size effect of $\text{TiO}_2$ anatase nanoparticles in dye-sensitized solar cell. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 025004.	0.8	29
2256	Hydrogen Production by Selective Photo-dissociation of Water in Aqueous Colloidal Nano-particles of Doped Iron (III) Oxides Semiconductors. <i>Journal of Materials Science and Technology</i> , 2010, 26, 619-624.	5.6	5
2257	Exploration of multiple energy landscapes for zirconia nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8454.	1.3	26
2258	Characterization of Hematite Thin Films for Photoelectrochemical Water Splitting in a Dual Photoelectrode Device. <i>Journal of the Electrochemical Society</i> , 2010, 157, F173.	1.3	49
2259	Efficient Electron Transfer and Sensitizer Regeneration in Stable $\text{TiO}_2$ -Extended Tetrathiafulvalene-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 5164-5169.	6.6	188
2260	Light Harvesting Semiconductor Core-Shell Nanocrystals: Ultrafast Charge Transport Dynamics of $\text{CdSe/ZnS}$ Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 627-632.	1.5	46
2261	Nano-Bio- Electronic, Photonic and MEMS Packaging. , 2010, , .		38

#	ARTICLE	IF	CITATIONS
2262	Triphenylamine-Based Ionic Dyes with Simple Structures: Broad Photoresponse and Limitations on Open-Circuit Voltage in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15842-15848.	1.5	29
2263	CdS/CdSe Co-Sensitized TiO <sub>2</sub> Photoelectrode for Efficient Hydrogen Generation in a Photoelectrochemical Cell. <i>Chemistry of Materials</i> , 2010, 22, 922-927.	3.2	447
2264	Isotruxene-Derived Cone-Shaped Organic Dyes for Dye-Sensitized Solar Cells. <i>Journal of Organic Chemistry</i> , 2010, 75, 7877-7886.	1.7	49
2265	Fabrication and photoelectrochemical property of tungsten(vi) oxide films with a flake-wall structure. <i>Chemical Communications</i> , 2010, 46, 2769.	2.2	151
2266	CuO/ZnO core/shell heterostructure nanowire arrays: synthesis, optical property, and energy application. <i>Chemical Communications</i> , 2010, 46, 6768.	2.2	108
2267	Solid-state dye-sensitized solar cells using polymerized ionic liquid electrolyte with platinum-free counter electrode. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1916.	1.3	63
2268	Photochemical processes in ionic liquids on ultrafast timescales. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1698.	1.3	37
2269	Theoretical Study of Photoinduced Electron-Transfer Processes in the Dye~Semiconductor System Alizarin~TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2010, 114, 18481-18493.	1.5	69
2270	Further Understanding of the Adsorption Mechanism of N719 Sensitizer on Anatase TiO <sub>2</sub> Films for DSSC Applications Using Vibrational Spectroscopy and Confocal Raman Imaging. <i>Langmuir</i> , 2010, 26, 9575-9583.	1.6	202
2271	Nanostructuring MoS <sub>2</sub> for photoelectrochemical water splitting. , 2010, , .		7
2272	Electroless Platinum Counter Electrode for Dye-Sensitized Solar Cells by Using Self-Assembly Monolayer Modification. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, D77.	2.2	34
2273	Preparation and Photovoltaic Characterization of Free-Base and Metallo Carboxyphenylethynyl Porphyrins for Dye-Sensitized Solar Cells. <i>Journal of the Chinese Chemical Society</i> , 2010, 57, 1136-1140.	0.8	10
2274	Structural Effects of Nanotubes, Nanowires, and Nanoporous Ti/TiO <sub>2</sub> Electrodes on Photoelectrocatalytic Oxidation of 4,4-Oxydianiline. <i>Separation Science and Technology</i> , 2010, 45, 1628-1636.	1.3	16
2275	Efficiently Harvesting Sun Light for Silicon Solar Cells through Advanced Optical Couplers and A Radial p-n Junction Structure. <i>Energies</i> , 2010, 3, 784-802.	1.6	20
2276	Efficient electrolyte of N,N'-bis(salicylidene)ethylenediamine zinc(ii) iodide in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2010, 34, 313-317.	1.4	32
2277	Advances in computational studies of energy materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3379-3456.	1.6	119
2278	Silole-spaced triarylamine derivatives as highly efficient organic sensitizers in dye-sensitized solar cells (DSSCs). <i>Journal of Materials Chemistry</i> , 2010, 20, 2391.	6.7	97
2279	Controllable Synthesis of TiO <sub>2</sub> Single Crystals with Tunable Shapes Using Ammonium-Exchanged Titanate Nanowires as Precursors. <i>Crystal Growth and Design</i> , 2010, 10, 2111-2115.	1.4	114

#	ARTICLE	IF	CITATIONS
2280	Effects of Counter Anions on Intense Photoluminescence of 1-D Chain Gold(I) Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 7129-7134.	1.9	46
2281	Study on the Anatase to Rutile Phase Transformation and Controlled Synthesis of Rutile Nanocrystals with the Assistance of Ionic Liquid. <i>Langmuir</i> , 2010, 26, 10294-10302.	1.6	80
2282	Light emission properties of planar source in multilayer structures with photonic crystal patterns. <i>Journal of Applied Physics</i> , 2010, 108, 063103.	1.1	6
2283	Origins of magnetism in transition metal doped CuI. <i>Journal of Applied Physics</i> , 2010, 108, 043713.	1.1	8
2284	Dynamic Template Assisted Electrodeposition of Porous ZnO Thin Films Using a Triangular Potential Waveform. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5811-5816.	1.5	15
2285	Triphenylamine-Based Dyes Bearing Functionalized 3,4-Propylenedioxythiophene Linkers with Enhanced Performance for Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2010, 12, 1204-1207.	2.4	95
2286	Performance Enhancement of Hybrid Solar Cells Through Chemical Vapor Annealing. <i>Nano Letters</i> , 2010, 10, 1628-1631.	4.5	82
2287	Decoupling Feature Size and Functionality in Solution-Processed, Porous Hematite Electrodes for Solar Water Splitting. <i>Nano Letters</i> , 2010, 10, 4155-4160.	4.5	290
2288	Two-Dimensional Graphene Bridges Enhanced Photoinduced Charge Transport in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2010, 4, 887-894.	7.3	925
2289	Mechanism and Activity of Photocatalytic Oxygen Evolution on Titania Anatase in Aqueous Surroundings. <i>Journal of the American Chemical Society</i> , 2010, 132, 13008-13015.	6.6	311
2291	Association of Titania with Nonionic Block Copolymers in Ethanol: The Early Stages of Templating and Film Formation. <i>Chemistry of Materials</i> , 2010, 22, 4579-4590.	3.2	7
2292	CdS/CdSe cosensitized oriented single-crystalline TiO <sub>2</sub> nanowire array for solar cell application. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	27
2293	Influence of Different Electrolytes on the Reaction Mechanism of a Triiodide/Iodide Redox Couple on the Platinized FTO Glass Electrode in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4160-4167.	1.5	48
2294	Photoinduced charge transfer in ZnO/Cu <sub>2</sub> O heterostructure films studied by surface photovoltage technique. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15476.	1.3	132
2295	Nb <sub>2</sub> O <sub>5</sub> Photoelectrodes for Dye-Sensitized Solar Cells: Choice of the Polymorph. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21795-21800.	1.5	213
2296	Nitrogen doping of nanoporous WO <sub>3</sub> layers by NH <sub>3</sub> treatment for increased visible light photoresponse. <i>Nanotechnology</i> , 2010, 21, 105704.	1.3	81
2297	Hydroxide Ions at the Water/Anatase TiO <sub>2</sub> (101) Interface: Structure and Electronic States from First Principles Molecular Dynamics. <i>Langmuir</i> , 2010, 26, 11518-11525.	1.6	76
2298	Electron transport in dye sensitized solar cells with TiO <sub>2</sub> /ZnO core-shell photoelectrode. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
2299	Visible-Light-Enhanced Electroless Deposition of Nanostructured Iron Oxyhydroxide Thin Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3707-3711.	1.5	14
2300	Enhanced Electron Collection Efficiency in Dye-Sensitized Solar Cells Based on Nanostructured TiO <sub>2</sub> Hollow Fibers. <i>Nano Letters</i> , 2010, 10, 1632-1638.	4.5	234
2301	Solid-State Dye-Sensitized Solar Cells Using Red and Near-IR Absorbing Bodipy Sensitizers. <i>Organic Letters</i> , 2010, 12, 3812-3815.	2.4	177
2302	Flexible Solar Cells Made of Nanowires/Microwires. , 2010, , 159-196.		5
2303	Effects of aggregation and electron injection on photovoltaic performance of porphyrin-based solar cells with oligo(phenylethynyl) links inside TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> nanotube arrays. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1064-1071.	1.3	65
2304	Effect of deprotonation on absorption and emission spectra of Ru(II)-bpy complexes functionalized with carboxyl groups. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8902.	1.3	56
2305	N-Doped Titanium Monoxide Nanoparticles with TiO Rock-Salt Structure, Low Energy Band Gap, and Visible Light Activity. <i>Chemistry of Materials</i> , 2010, 22, 3704-3711.	3.2	73
2306	Dye-Sensitized Solar Cell Constructed with Titanium Mesh and 3-D Array of TiO <sub>2</sub> Nanotubes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14537-14543.	1.2	63
2307	DFT/TD-DFT Investigation of Electronic Structures and Spectra Properties of Cu-Based Dye Sensitizers. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1178-1184.	1.1	40
2308	Adsorption of Catechol on TiO <sub>2</sub> Rutile (100): A Density Functional Theory Investigation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6491-6495.	1.5	39
2309	Electrospun Nanofibers of ZnO/SnO <sub>2</sub> Heterojunction with High Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7920-7925.	1.5	345
2310	Conjugated Polymer Poly(2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene) Modification on Carbon Nanotubes with Assistance of Supercritical Carbon Dioxide: Chemical Interaction, Solubility, and Light Emission. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10119-10125.	1.5	14
2311	Adsorption states and mobility of trimethylacetic acid molecules on reduced TiO <sub>2</sub> (110) surface. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5986.	1.3	23
2312	Solution growth of anatase TiO <sub>2</sub> nanowires from transparent conducting glass substrates. <i>Journal of Materials Chemistry</i> , 2010, 20, 5063.	6.7	55
2313	Study of concentration-dependent cobalt ion doping of TiO <sub>2</sub> and TiO <sub>2-x</sub> N <sub>x</sub> at the nanoscale. <i>Nanoscale</i> , 2010, 2, 1134.	2.8	32
2314	One-dimensional hierarchical titania for fast reaction kinetics of photoanode materials of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 2003.	15.6	72
2315	Optimization studies of bio-hydrogen production in a coupled microbial electrolysis-dye sensitized solar cell system. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 349-356.	1.6	29
2316	High lithium storage in micrometre sized mesoporous spherical self-assembly of anatase titania nanospheres and carbon. <i>Journal of Materials Chemistry</i> , 2010, 20, 1600.	6.7	88

#	ARTICLE	IF	CITATIONS
2317	QUASI-SOLID-STATE DYE-SENSITIZED SOLAR CELLS WITH A HIGH MOLECULAR GEL POLYMER ELECTROLYTE BASED ON PEO/P(VDF-HFP). International Journal of Nanoscience, 2010, 09, 257-261.	0.4	1
2318	Photocurrent response from vertically aligned single-walled carbon nanotube arrays. , 2010, , .		5
2319	Indium <sup>III</sup> Sulfur Supertetrahedral Clusters Integrated with a Metal Complex of 1,10-Phenanthroline. Inorganic Chemistry, 2010, 49, 4385-4387.	1.9	43
2320	Rational Design and Synthesis of Freestanding Photoelectric Nanodevices as Highly Efficient Photocatalysts. Nano Letters, 2010, 10, 1941-1949.	4.5	62
2321	Phosphonate self-assembled monolayers as organic linkers in solid-state quantum dot sensitized solar cells. , 2010, , .		0
2322	Diffusion of oxygen vacancies on a strained rutile $\text{TiO}_2$ Physical Review B, 2010, 82, .	1.1	27
2323	Role of gold on catalytic platinum layer of dye-sensitized solar cell. , 2010, , .		0
2324	Dye-Sensitized Solar Cells Based on Nanostructured Semiconductor Oxide Ceramics with Ultra-Thin Barrier Layers. Integrated Ferroelectrics, 2010, 115, 120-131.	0.3	7
2325	Pt/TiO <sub>2</sub> /SiC schottky diodes for hydrogen gas sensing applications. , 2010, , .		0
2326	The first 3-D supramolecular Mn(III) salen complex with 4,4-dicarboxy-2,2-bipyridine: structure and magnetic properties. Journal of Coordination Chemistry, 2010, 63, 3093-3100.	0.8	6
2327	Novel accumulation of photo-induced MV <sup>+</sup> embedded in a TiO <sub>2</sub> shell and discharge of electrons to a Pt electrode. Chemical Communications, 2010, 46, 3797.	2.2	4
2328	Peroxide and superoxide states of adsorbed O <sub>2</sub> on anatase TiO <sub>2</sub> (101) with subsurface defects. Physical Chemistry Chemical Physics, 2010, 12, 12956.	1.3	132
2329	Functionalization of manganite nanoparticles and their interaction with biologically relevant small ligands: Picosecond time-resolved FRÉT studies. Nanoscale, 2010, 2, 2704.	2.8	44
2330	Monitoring electronic structure changes of TiO <sub>2</sub> (110) via sign reversal of adsorbate vibrational bands. Physical Chemistry Chemical Physics, 2010, 12, 3649.	1.3	29
2331	Anomalous rheological behavior in chemically modified TiO <sub>2</sub> colloidal pastes prepared for flexible dye-sensitized solar cells. Journal of Materials Chemistry, 2010, 20, 9954.	6.7	41
2332	Ultrafast spin crossover in 4-thiothymidine in an ionic liquid. Chemical Communications, 2010, 46, 5963.	2.2	56
2333	States and migration of an excess electron in a pyridinium-based, room-temperature ionic liquid: an ab initio molecular dynamics simulation exploration. Physical Chemistry Chemical Physics, 2010, 12, 1854.	1.3	28
2334	Improvement efficiency of a dye-sensitized solar cell using Eu <sup>3+</sup> modified TiO <sub>2</sub> nanoparticles as a secondary layer electrode. Journal of Materials Chemistry, 2010, 20, 6505.	6.7	37

#	ARTICLE	IF	CITATIONS
2335	Interrogating the ultrafast dynamics of an efficient dye for sunlight conversion. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8098.	1.3	22
2336	Heteroleptic ruthenium antenna-dye for high-voltage dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 7158.	6.7	50
2337	Absorption and photovoltaic properties of organic solar cell sensitizers containing fluorene unit as conjunction bridge. <i>Energy and Environmental Science</i> , 2011, 4, 1830.	15.6	88
2338	Porous orthorhombic tungsten oxide thin films: synthesis, characterization, and application in electrochromic and photochromic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 3940.	6.7	89
2339	Probing the protic ionic liquid surface using X-ray reflectivity. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20828.	1.3	41
2340	Anionic structure-dependent photoelectrochemical responses of dye-sensitized solar cells based on a binary ionic liquid electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6416.	1.3	27
2341	A novel reaction model for the electrical conductivity of ultra-thin TiO <sub>2</sub> films in H <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9131.	1.3	4
2342	Ultra-thin anatase TiO <sub>2</sub> nanosheets dominated with {001} facets: thickness-controlled synthesis, growth mechanism and water-splitting properties. <i>CrystEngComm</i> , 2011, 13, 1378-1383.	1.3	189
2343	Ultrasound assisted self-assembly of a BaF <sub>2</sub> hollow nest-like nanostructure. <i>CrystEngComm</i> , 2011, 13, 2758.	1.3	19
2344	A double layered photoanode made of highly crystalline TiO <sub>2</sub> nanooctahedra and agglutinated mesoporous TiO <sub>2</sub> microspheres for high efficiency dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 2168.	15.6	146
2345	A first-principles study of the dielectric properties of TiO <sub>2</sub> polymorphs. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 025901.	0.7	29
2346	Study of Interfacial Charge Transfer Bands and Electron Recombination in the Surface Complexes of TCNE, TCNQ, and TCNAQ with TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2011, 115, 21487-21493.	1.5	76
2347	Pt Nanoparticles Supported on Polypyrrole Nanospheres as a Catalytic Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22035-22039.	1.5	73
2348	MWCNT employed counter electrode for DSSCs. , 2011, , .		1
2349	Control of naturally coupled piezoelectric and photovoltaic properties for multi-type energy scavengers. <i>Energy and Environmental Science</i> , 2011, 4, 4607.	15.6	51
2350	Gas phase photocatalytic water splitting with Rh <sup>2+</sup> /Cr <sub>2</sub> O <sub>3</sub> /GaN:ZnO in 1/4-reactors. <i>Energy and Environmental Science</i> , 2011, 4, 2937.	15.6	71
2351	Dye-sensitized biosystem sensing using macroporous semiconducting metal oxide films. <i>Journal of Materials Chemistry</i> , 2011, 21, 5738.	6.7	37
2352	Enhancement of visible light photocatalysis by grafting ZnO nanoplatelets with exposed (0001) facets onto a hierarchical substrate. <i>Chemical Communications</i> , 2011, 47, 10797.	2.2	89



#	ARTICLE	IF	CITATIONS
2353	Synthesis of hydrophobic layered luminescent films: Organic–inorganic hybrid mono-n-dodecyloxy-phosphinyl-cerium (terbium). <i>Journal of Materials Chemistry</i> , 2011, 21, 17104.	6.7	2
2354	Utilization of Direct and Diffuse Sunlight in a Dye-Sensitized Solar Cell – Silicon Photovoltaic Hybrid Concentrator System. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 581-585.	2.1	49
2355	Anodic Deposition of Ultrathin TiO <sub>2</sub> Film with Blocking Layer and Anchoring Layer for Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2011, 159, B80-B85.	1.3	14
2356	Particles Size and Conductivity Study of P-Type Copper (I) Iodide (CuI) Thin Film for Solid State Dye-Sensitized Solar Cells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 17, 012009.	0.3	10
2357	Heteroleptic ruthenium complexes containing uncommon 5,5'-disubstituted-2,2'-bipyridine chromophores for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2011, 40, 2314-2323.	1.6	28
2358	Enhanced light harvesting in dye-sensitized solar cells with highly reflective TCO- and Pt-less counter electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 15193.	6.7	18
2359	Synthesis of one-dimensional TiO <sub>2</sub> V <sub>2</sub> O <sub>5</sub> branched heterostructures and their visible light photocatalytic activity towards Rhodamine B. <i>Nanotechnology</i> , 2011, 22, 225702.	1.3	113
2360	Remarkable enhancement in photocurrent of In <sub>0.20</sub> Ga <sub>0.80</sub> N photoanode by using an electrochemical surface treatment. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	27
2361	Plasma surface modification of TiO <sub>2</sub> nanoparticles for Dye-Sensitized Solar cell (DSSC) application. , 2011, , .		0
2362	A facile route to accelerate the formation of TiO <sub>2</sub> nanotube arrays. <i>Journal of Physics: Conference Series</i> , 2011, 276, 012047.	0.3	1
2363	Preparation of TiO <sub>2</sub> nanowires/nanotubes using polycarbonate membranes and their uses in dye-sensitized solar cells. <i>Nanoscale</i> , 2011, 3, 4162.	2.8	37
2364	Morphological dependence of charge transport in nanostructured ZnO-based dye sensitized solar cells. , 2011, , .		0
2365	Directional photoinduced electron transfer in paraquat silicate thin films containing entrapped ruthenium(ii)-tris(bathophenanthroline-disulfonate). <i>Chemical Communications</i> , 2011, 47, 11348.	2.2	1
2366	Single-crystalline and reactive facets exposed anatase TiO <sub>2</sub> nanofibers with enhanced photocatalytic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 6718.	6.7	31
2367	Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> nanosheets/TiO <sub>2</sub> submicron fibers heterostructures: in situ fabrication and high visible light photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 6922.	6.7	113
2368	Wet chemical route to hierarchical TiO <sub>2</sub> nanodendrite/nanoparticle composite anodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 9255.	6.7	53
2369	New strategy of photodynamic treatment of TiO <sub>2</sub> nanofibers combined with celastrol for HepG2 proliferation in vitro. <i>Nanoscale</i> , 2011, 3, 3115.	2.8	35
2370	Anisotropic particles with patchy, multicompartiment and Janus architectures: preparation and application. <i>Chemical Society Reviews</i> , 2011, 40, 2402.	18.7	486

#	ARTICLE	IF	CITATIONS
2371	A new family of heteroleptic ruthenium(ii) polypyridyl complexes for sensitization of nanocrystalline TiO <sub>2</sub> films. Dalton Transactions, 2011, 40, 4497.	1.6	43
2372	Chlorate ion mediated rutile to anatase reverse phase transformation in the TiO <sub>2</sub> nanosystem. Dalton Transactions, 2011, 40, 11374.	1.6	10
2373	Cascade quantum dots sensitized TiO <sub>2</sub> nanorod arrays for solar cell applications. Nanoscale, 2011, 3, 4940.	2.8	31
2374	Interactions of adsorbed poly(ethylene oxide) mushrooms with a bare silica-ionic liquid interface. Physical Chemistry Chemical Physics, 2011, 13, 13479.	1.3	20
2375	Effective increasing of optical absorption and energy conversion efficiency of anatase TiO <sub>2</sub> nanocrystals by hydrogenation. Physical Chemistry Chemical Physics, 2011, 13, 18063.	1.3	92
2376	Bandgap narrowing of titanium oxide nanosheets: homogeneous doping of molecular iodine for improved photoreactivity. Journal of Materials Chemistry, 2011, 21, 14672.	6.7	28
2377	Optoelectronic Properties of Vanadyl phthalocyanine Based Organic-Inorganic Hybrid Devices. Applied Mechanics and Materials, 0, 110-116, 3255-3260.	0.2	0
2378	A Metal-Solution FET Enhanced Proton-Motive-Force Driving Photovoltaic. IEEE Nanotechnology Magazine, 2011, 10, 191-196.	1.1	0
2379	Room-Temperature Chemiresistive Effect of TiO <sub>2</sub> Nanowires to Nitroaromatic and Nitroamine Explosives. IEEE Sensors Journal, 2011, 11, 1352-1358.	2.4	21
2380	Microwave assisted CdSe quantum dot deposition on TiO <sub>2</sub> films for dye-sensitized solar cells. Nanoscale, 2011, 3, 2188.	2.8	35
2381	Three-Dimensional High-Density Hierarchical Nanowire Architecture for High-Performance Photoelectrochemical Electrodes. Nano Letters, 2011, 11, 3413-3419.	4.5	223
2382	Influence of Multiple Protonation on the Initial Excitation in a Black Dye. Journal of Physical Chemistry C, 2011, 115, 24004-24012.	1.5	28
2383	Improved Efficiency of over 10% in Dye-Sensitized Solar Cells with a Ruthenium Complex and an Organic Dye Heterogeneously Positioning on a Single TiO <sub>2</sub> Electrode. Journal of Physical Chemistry C, 2011, 115, 7747-7754.	1.5	141
2384	Preventing Dye Aggregation on ZnO by Adding Water in the Dye-Sensitization Process. Journal of Physical Chemistry C, 2011, 115, 19274-19279.	1.5	40
2385	Electronic Excited States of Carotenoid Dyes Adsorbed on TiO <sub>2</sub> . Journal of Physical Chemistry C, 2011, 115, 22328-22335.	1.5	16
2386	Tailored Organic Electro-optic Materials and Their Hybrid Systems for Device Applications. Chemistry of Materials, 2011, 23, 544-553.	3.2	110
2387	Photochemical Properties, Composition, and Structure in Molecular Beam Epitaxy Grown Fe-Doped and (Fe,N) Codoped Rutile TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2011, 115, 15416-15424.	1.5	28
2388	Structural and pH Dependence of Excited State PCET Reactions Involving Reductive Quenching of the MLCT Excited State of [Ru(II)(bpy) <sub>2</sub> (bpz)] <sup>2+</sup> by Hydroquinones. Journal of Physical Chemistry A, 2011, 115, 3346-3356.	1.1	37

#	ARTICLE	IF	CITATIONS
2389	Interaction of BrPDI, BrGly, and BrAsp with the Rutile TiO <sub>2</sub> (110) Surface for Photovoltaic and Photocatalytic Applications: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9220-9226.	1.5	7
2390	Fabrication and characterization of plastic-based flexible dye-sensitized solar cells consisting of crystalline mesoporous titania nanoparticles as photoanodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 17511.	6.7	49
2391	Photovoltaic Applications of Silicon Nanocrystal Based Nanostructures Induced by Nanosecond Laser Fragmentation in Liquid Media. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5084-5093.	1.5	67
2392	Reduction of Charge Recombination by an Amorphous Titanium Oxide Interlayer in Layered Graphene/Quantum Dots Photochemical Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1940-1945.	4.0	45
2393	Size-tunable mesoporous spherical TiO <sub>2</sub> as a scattering overlayer in high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 9582.	6.7	119
2394	Facile Solvothermal Method for Fabricating Arrays of Vertically Oriented Fe <sub>2</sub> O <sub>3</sub> Nanowires and Their Application in Photoelectrochemical Water Oxidation. <i>Energy &amp; Fuels</i> , 2011, 25, 5257-5263.	2.5	78
2395	Solvent-controlled synthesis of three-dimensional TiO <sub>2</sub> nanostructures via a one-step solvothermal route. <i>CrystEngComm</i> , 2011, 13, 2294.	1.3	62
2396	Hierarchical Porous Materials Made by Drying Complex Suspensions. <i>Langmuir</i> , 2011, 27, 955-964.	1.6	55
2397	Genetic Algorithm-Assisted Optimization of Nanoporous TiO <sub>2</sub> for Low-Temperature Processable Photoanodes of Dye-Sensitized Solar Cells. <i>ACS Combinatorial Science</i> , 2011, 13, 101-106.	3.8	8
2398	Direct assembly of new cobalt(III)-lanthanide(III) heterometallic frameworks with NaCl-like topology. <i>CrystEngComm</i> , 2011, 13, 2391.	1.3	11
2399	A Force Field for the Interaction of Water with TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24206-24214.	1.5	31
2400	Enhanced Photoelectrochemical Performance of Photoanode Fabricated Using Polystyrene Ball Embedded TiO <sub>2</sub> Pastes. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, B6.	2.2	11
2401	Interfacial Electron Transfer Dynamics in a Solar Cell Organic Dye Anchored to Semiconductor Particle and Aluminum-Doped Mesoporous Materials. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23183-23191.	1.5	45
2402	Wire-shaped quantum dots-sensitized solar cells based on nanosheets and nanowires. <i>Nanotechnology</i> , 2011, 22, 475402.	1.3	20
2403	Wide bandgap n-type and p-type semiconductor porous junction devices as photovoltaic cells. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 405103.	1.3	0
2404	CO <sub>2</sub> Adsorption, Diffusion, and Electron-Induced Chemistry on Rutile TiO <sub>2</sub> (110): A Low-Temperature Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12095-12105.	1.5	55
2405	Near-Complete Suppression of Surface Recombination in Solar Photoelectrolysis by Co-Pi Catalyst-Modified W:BIVO <sub>4</sub> . <i>Journal of the American Chemical Society</i> , 2011, 133, 18370-18377.	6.6	951
2406	Enhancing the Performance of Organic Dye-Sensitized Solar Cells via a Slight Structure Modification. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22640-22646.	1.5	39

#	ARTICLE	IF	CITATIONS
2407	Conformation of Poly(ethylene oxide) Dissolved in Ethylammonium Nitrate. <i>Journal of Physical Chemistry B</i> , 2011, 115, 648-652.	1.2	47
2408	Facile and Efficient Route to Polyimide-TiO <sub>2</sub> Nanocomposite Coating onto Carbon Fiber. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4744-4750.	4.0	43
2409	Solid-Solid Interface Formation in TiO <sub>2</sub> Nanoparticle Networks. <i>Langmuir</i> , 2011, 27, 1946-1953.	1.6	49
2410	Compact Poly(ethylene oxide) Structures Adsorbed at the Ethylammonium Nitrate-Silica Interface. <i>Langmuir</i> , 2011, 27, 3541-3549.	1.6	27
2411	Preparation of Nanoporous TiO <sub>2</sub> Electrodes for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-7.	1.5	13
2412	Theoretical Study of the Molecular and Electronic Structures of TiO <sub>4</sub> H <sub>4</sub> , Ti <sub>2</sub> O <sub>7</sub> H <sub>6</sub> , and Ti <sub>2</sub> O <sub>6</sub> H <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2011, 115, 1635-1642.	1.5	7
2413	A "Paint-On" Protocol for the Facile Assembly of Uniform Microgel Coatings for Color Tunable Etalon Fabrication. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1140-1147.	4.0	79
2414	A Finite Cluster Approach to an Extended Transition Metal Oxide: A Wave Function Based Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17540-17557.	1.5	11
2415	SnO <sub>x</sub> -ZnGa <sub>2</sub> O <sub>4</sub> Photocatalysts with Enhanced Visible Light Activity. <i>ACS Catalysis</i> , 2011, 1, 923-928.	5.5	51
2416	Significant Performance Improvement of Porphyrin-Sensitized TiO <sub>2</sub> Solar Cells under White Light Illumination. <i>Journal of Physical Chemistry C</i> , 2011, 115, 317-326.	1.5	42
2417	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. <i>Energy and Environmental Science</i> , 2011, 4, 2512.	15.6	269
2418	Li Doped CuO Film Electrodes for Photoelectrochemical Cells. <i>Journal of the Electrochemical Society</i> , 2011, 159, B227-B231.	1.3	80
2419	Electrolyte-Induced Inversion Layer Schottky Junction Solar Cells. <i>Nano Letters</i> , 2011, 11, 2419-2423.	4.5	83
2420	Adsorption of Acetic Acid on Rutile TiO <sub>2</sub> (110) vs (011)-2 Å <sup>-1</sup> Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3434-3442.	1.5	48
2421	Confined Photodynamics of an Organic Dye for Solar Cells Encapsulated in Titanium-Doped Mesoporous Molecular Materials. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8858-8867.	1.5	13
2422	Counter Electrode System of Pt on Stainless Steel (SS) for Electron Injection into Iodide Redox Couple. <i>Journal of the Electrochemical Society</i> , 2011, 159, B6-B11.	1.3	11
2423	Electronic and Optical Properties of the Spiro-MeOTAD Hole Conductor in Its Neutral and Oxidized Forms: A DFT/TDDFT Investigation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23126-23133.	1.5	145
2424	Photodeposition of Ag <sub>2</sub> S Quantum Dots and Application to Photoelectrochemical Cells for Hydrogen Production under Simulated Sunlight. <i>Langmuir</i> , 2011, 27, 7294-7300.	1.6	94

#	ARTICLE	IF	CITATIONS
2425	Extremely thin absorber solar cells based on nanostructured semiconductors. <i>Materials Science and Technology</i> , 2011, 27, 1741-1756.	0.8	27
2426	High Efficiency Dye-Sensitized Solar Cells Based on Hierarchically Structured Nanotubes. <i>Nano Letters</i> , 2011, 11, 3214-3220.	4.5	337
2427	Analysis on dye-sensitized solar cell's efficiency improvement. <i>Journal of Physics: Conference Series</i> , 2011, 276, 012188.	0.3	7
2428	Indium Sulfur Supertetrahedral Polymers Integrated with [M(phen) <sub>3</sub> ] <sup>2+</sup> Cations (M = Ni and Fe). <i>Inorganic Chemistry</i> , 2011, 50, 6972-6978.	1.9	35
2429	Effect of Hydrocarbon Chain Length of Disubstituted Triphenyl-amine-Based Organic Dyes on Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22002-22008.	1.5	59
2430	Electronic Structure, Chemical Interactions and Molecular Orientations of 3,4,9,10-Perylene-tetracarboxylic-dianhydride on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , 2011, 115, 24880-24887.	1.5	50
2431	Fabrication of 3D interconnected porous TiO <sub>2</sub> nanotubes templated by poly(vinyl chloride-g-4-vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	10
2432	Kinetic and Mechanistic Investigations of Multielectron Transfer Reactions Induced by Stored Electrons in TiO <sub>2</sub> Nanoparticles: A Stopped Flow Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2139-2147.	1.1	90
2433	Sintering Rate and Mechanism of TiO <sub>2</sub> Nanoparticles by Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11030-11035.	1.5	120
2434	Well-Defined Au/ZnO Nanoparticle Composites Exhibiting Enhanced Photocatalytic Activities. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4531-4538.	4.0	146
2435	Energy level alignment, electron injection, and charge recombination characteristics in CdS/CdSe cosensitized TiO <sub>2</sub> photoelectrode. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	93
2436	Operational principles of electrochemical nanoemitter solar cells for photovoltaic and photoelectrocatalytic applications. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 184-195.	1.9	11
2437	Plasmonic Antenna Effects on Photochemical Reactions. <i>Accounts of Chemical Research</i> , 2011, 44, 251-260.	7.6	97
2438	A facile synthesis of anatase TiO <sub>2</sub> nanosheets-based hierarchical spheres with over 90% {001} facets for dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 1809-1811.	2.2	191
2439	Photogenerated Defects in Shape-Controlled TiO <sub>2</sub> Anatase Nanocrystals: A Probe To Evaluate the Role of Crystal Facets in Photocatalytic Processes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17652-17661.	6.6	319
2440	Interface Applications in Nanomaterials. <i>Interface Science and Technology</i> , 2011, 18, 333-429.	1.6	2
2441	A Method for Rapid Screening of Photosensitizers by Scanning Electrochemical Microscopy (SECM) and the Synthesis and Testing of a Porphyrin Sensitizer. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2592-2599.	1.5	27
2442	Increasing Solar Absorption for Photocatalysis with Black Hydrogenated Titanium Dioxide Nanocrystals. <i>Science</i> , 2011, 331, 746-750.	6.0	5,359

#	ARTICLE	IF	CITATIONS
2443	Fabrication of the SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Hierarchical Heterostructure and Its Enhanced Photocatalytic Property. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7874-7879.	1.5	88
2444	Graphite Oxide with Different Oxygenated Levels for Hydrogen and Oxygen Production from Water under Illumination: The Band Positions of Graphite Oxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22587-22597.	1.5	260
2445	Theoretical investigation of triphenylamine dye/titanium dioxide interface for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16159.	1.3	55
2446	The design, fabrication, and photocatalytic utility of nanostructured semiconductors: focus on TiO <sub>2</sub> -based nanostructures. <i>Nanotechnology, Science and Applications</i> , 2011, 4, 35.	4.6	194
2447	Organic conjugated material-based broadband terahertz wave modulators. <i>Applied Physics Letters</i> , 2011, 99, 061108.	1.5	42
2448	Water Contamination Effect on Liquid Acetonitrile/TiO <sub>2</sub> Anatase (101) Interface for Durable Dye-Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19849-19855.	1.5	31
2449	Economical and effective sulfide catalysts for dye-sensitized solar cells as counter electrodes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19298.	1.3	306
2450	Spongy structure of CdS nanocrystals decorated with dye molecules for semiconductor sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 2883.	6.7	24
2451	Optimizing the Performance of a Plastic Dye-Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9787-9796.	1.5	37
2452	Fe <sup>2+</sup> Sorption at the Fe Oxide-Water Interface: A Revised Conceptual Framework. <i>ACS Symposium Series</i> , 2011, , 315-343.	0.5	66
2453	Synthesis and characterization of titanium-alloyed hematite thin films for photoelectrochemical water splitting. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	28
2454	Magnesium nanocrystal-polymer composites: A new platform for designer hydrogen storage materials. <i>Energy and Environmental Science</i> , 2011, 4, 4882.	15.6	105
2455	Solar hydrogen generation from seawater with a modified BiVO <sub>4</sub> photoanode. <i>Energy and Environmental Science</i> , 2011, 4, 4046.	15.6	564
2456	Molecular Photovoltaics in Nanoscale Dimension. <i>International Journal of Molecular Sciences</i> , 2011, 12, 173-225.	1.8	12
2457	Employing an amphiphilic interfacial modifier to enhance the performance of a poly(3-hexyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 182 T	6.7	56
2458	Visible-light-response iodine-doped titanium dioxide nanocrystals for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 3877.	6.7	73
2459	Panchromatic ruthenium sensitizer based on electron-rich heteroarylvinylene I€-conjugated quaterpyridine for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2011, 40, 234-242.	1.6	57
2460	Dye-Sensitized Reduced Graphene Oxide Photocatalysts for Highly Efficient Visible-Light-Driven Water Reduction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13938-13945.	1.5	265

#	ARTICLE	IF	CITATIONS
2461	Limits to doping in oxides. <i>Physical Review B</i> , 2011, 83, .	1.1	248
2462	Synthesis, Characterization, and Spectroscopic Investigation of Benzoxazole Conjugated Schiff Bases. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13390-13398.	1.1	33
2463	Hierarchical assembly of anatase nanowhiskers and evaluation of their photocatalytic efficiency in comparison to various one-dimensional TiO <sub>2</sub> nanostructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 11844.	6.7	42
2464	Low-cost dye-sensitized solar cell based on nine kinds of carbon counter electrodes. <i>Energy and Environmental Science</i> , 2011, 4, 2308.	15.6	434
2465	Structure of droplet-epitaxy-grown InAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2011, 98, 243115.	1.5	10
2466	Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells. <i>Chemical Science</i> , 2011, 2, 949.	3.7	259
2467	Nano-Structured Materials for Next Generation Fuel Cells and Photoelectrochemical Devices. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1326, 1.	0.1	1
2468	Electronic Optimization of Heteroleptic Ru(II) Bipyridine Complexes by Remote Substituents: Synthesis, Characterization, and Application to Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2011, 50, 3271-3280.	1.9	51
2469	Enhanced Photocatalytic and Photoelectrochemical Activity in the Ternary Hybrid of CdS/TiO <sub>2</sub> /WO <sub>3</sub> through the Cascadal Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9797-9805.	1.5	238
2470	Synthesis of transparent mesoporous tungsten trioxide films with enhanced photoelectrochemical response: application to unassisted solar water splitting. <i>Energy and Environmental Science</i> , 2011, 4, 1465.	15.6	142
2471	Solution-derived ZnO nanostructures for photoanodes of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 818-841.	15.6	243
2472	Evolution of an Oxygen Near-Edge X-ray Absorption Fine Structure Transition in the Upper Hubbard Band in $\text{LaFeO}_3$ upon Electrochemical Oxidation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5619-5625.	1.5	62
2473	Nanostructured TCOs (ZnO, TiO <sub>2</sub> , and Beyond)., 2011,, 425-457.		1
2474	Enhanced photocatalytic activity of mesoporous S-N-codoped TiO <sub>2</sub> loaded with Ag nanoparticles. <i>Semiconductor Science and Technology</i> , 2011, 26, 085037.	1.0	16
2475	SnO <sub>2</sub> hollow structures and TiO <sub>2</sub> nanosheets for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 9912.	6.7	327
2476	Photoinduced Stepwise Oxidative Activation of a Chromophore Catalyst Assembly on TiO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1808-1813.	2.1	93
2477	Electronic structure study of lightly Nb-doped TiO <sub>2</sub> electrode for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 1480.	15.6	150
2478	Achieving High Efficiency Silicon-Carbon Nanotube Heterojunction Solar Cells by Acid Doping. <i>Nano Letters</i> , 2011, 11, 1901-1905.	4.5	230

#	ARTICLE	IF	CITATIONS
2479	A molecularly engineered fluorene-substituted Ru-complex for efficient mesoscopic dye-sensitized solar cells. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2011, 2, 035016.	0.7	12
2480	Shell-in-shell TiO <sub>2</sub> hollow spheres synthesized by one-pot hydrothermal method for dye-sensitized solar cell application. <i>Energy and Environmental Science</i> , 2011, 4, 3565.	15.6	212
2481	Aqueous soft matter based photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 72-79.	6.7	46
2482	A novel catalyst of WO <sub>2</sub> nanorod for the counter electrode of dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 4535.	2.2	346
2483	Titanium nitride thin film as a novel charge collector in TCO-less dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , 2011, 21, 3077.	6.7	40
2485	Two flexible counter electrodes based on molybdenum and tungsten nitrides for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 10761.	6.7	160
2486	Formation of Interpenetrating Hierarchical Titania Structures by Confined Synthesis in Inverse Opal. <i>Journal of the American Chemical Society</i> , 2011, 133, 17274-17282.	6.6	90
2487	Nanoporous black silicon photocathode for H <sub>2</sub> production by photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2011, 4, 1690.	15.6	221
2488	Illumination Intensity-Dependent Electronic Properties in Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1998-2003.	2.1	40
2489	New molecular design of donor-acceptor dyes for dye-sensitized solar cells: control of molecular orientation and arrangement on TiO <sub>2</sub> surface. <i>New Journal of Chemistry</i> , 2011, 35, 111-118.	1.4	63
2490	Monolayer platinum supported on tungsten carbides as low-cost electrocatalysts: opportunities and limitations. <i>Energy and Environmental Science</i> , 2011, 4, 3900.	15.6	243
2491	Highly efficient CdTe/CdS quantum dot sensitized solar cells fabricated by a one-step linker assisted chemical bath deposition. <i>Chemical Science</i> , 2011, 2, 1396.	3.7	148
2492	TiO <sub>2</sub> nanorod arrays grown from a mixed acid medium for efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 2145.	15.6	131
2493	Energy Harvesting and Remote Powering for Implantable Biosensors. <i>IEEE Sensors Journal</i> , 2011, 11, 1573-1586.	2.4	137
2494	TiO <sub>2</sub> thin film encapsulated ZnO nanorod and nanoflower dye sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2011, 125, 12-14.	2.0	38
2495	Energy levels, charge injection, charge recombination and dye regeneration dynamics for donor-acceptor conjugated organic dyes in mesoscopic TiO <sub>2</sub> sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 1820.	15.6	140
2496	Ab Initio Study on a Novel Photocatalyst: Functionalized Graphitic Carbon Nitride Nanotube. <i>ACS Catalysis</i> , 2011, 1, 99-104.	5.5	118
2497	Direct vs Indirect Mechanisms for Electron Injection in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11293-11301.	1.5	129



#	ARTICLE	IF	CITATIONS
2498	Electronic structure and optical spectra of catechol on TiO <sub>2</sub> nanoparticles from real time TD-DFT simulations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1506-1514.	1.3	103
2499	Photoinduced Charge Carrier Dynamics of Zn <sup>2+</sup> Porphyrin <sup>2+</sup> TiO <sub>2</sub> Electrodes: The Key Role of Charge Recombination for Solar Cell Performance. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3679-3690.	1.1	210
2500	Synthesis and applications of main-chain Ru( <sup>ii</sup> ) metallo-polymers containing bis-terpyridyl ligands with various benzodiazole cores for solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 1196-1205.	6.7	40
2501	Further Understanding of the Electronic Interactions between N719 Sensitizer and Anatase TiO <sub>2</sub> Films: A Combined X-ray Absorption and X-ray Photoelectron Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5692-5707.	1.5	72
2502	Effect of hybrid nanocrystalline TiO <sub>2</sub> /Au film on the photoelectrode of dye-sensitized solar cell. , 2011, , .		0
2503	An iodine-free electrolyte based on ionic liquid polymers for all-solid-state dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 2700.	2.2	88
2504	Plasmon Resonant Enhancement of Photocatalytic Water Splitting Under Visible Illumination. <i>Nano Letters</i> , 2011, 11, 1111-1116.	4.5	934
2505	Stretchable, elastic materials and devices for solar energy conversion. <i>Energy and Environmental Science</i> , 2011, 4, 3314.	15.6	356
2506	Surface-Treated TiO <sub>2</sub> Nanoparticles for Dye-Sensitized Solar Cells with Remarkably Enhanced Performance. <i>Langmuir</i> , 2011, 27, 14594-14598.	1.6	88
2507	The Basis for Photocatalytic Writing. <i>Journal of Chemical Education</i> , 2011, 88, 1116-1118.	1.1	6
2508	Energy Conversion in Photosynthesis: A Paradigm for Solar Fuel Production. <i>Annual Review of Condensed Matter Physics</i> , 2011, 2, 303-327.	5.2	129
2509	Surface-Enhanced Raman Scattering on Semiconducting Oxide Nanoparticles: Oxide Nature, Size, Solvent, and pH Effects. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8994-9004.	1.5	79
2510	Virtues and Vices of an Organic Dye and Ti-Doped MCM-41 Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23642-23650.	1.5	25
2511	Anatase TiO <sub>2</sub> Crystal Facet Growth: Mechanistic Role of Hydrofluoric Acid and Photoelectrocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2472-2478.	4.0	108
2512	Hydrothermal Stability of {001} Faceted Anatase TiO <sub>2</sub> . <i>Chemistry of Materials</i> , 2011, 23, 3486-3494.	3.2	157
2513	Honeycomb-like CoS Counter Electrodes for Transparent Dye-Sensitized Solar Cells. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, D41.	2.2	71
2514	Indium sulfide clusters integrated with 2,2'-bipyridine complexes. <i>Dalton Transactions</i> , 2011, 40, 9746.	1.6	35
2515	Spherical polypyrrole nanoparticles as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 8146.	6.7	177

#	ARTICLE	IF	CITATIONS
2516	Panchromatic engineering for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 842-857.	15.6	319
2517	Hierarchically structured photoelectrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 6769.	6.7	139
2518	Dye sensitized solar cells using non-aggregated silicon phthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 1004-1010.	0.4	34
2519	Poly(3-hexylthiophene)/TiO <sub>2</sub> Nanoparticle-Functionalized Electrodes for Visible Light and Low Potential Photoelectrochemical Sensing of Organophosphorus Pesticide Chlopyrifos. <i>Analytical Chemistry</i> , 2011, 83, 9681-9686.	3.2	155
2520	Highly Efficient and Durable Quantum Dot Sensitized ZnO Nanowire Solar Cell Using Noble-Metal-Free Counter Electrode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22018-22024.	1.5	99
2521	Preparation and enhanced visible-light photocatalytic H <sub>2</sub> -production activity of CdS-sensitized Pt/TiO <sub>2</sub> nanosheets with exposed (001) facets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8915.	1.3	235
2522	A photo-induced electron transfer study of an organic dye anchored on the surfaces of TiO <sub>2</sub> nanotubes and nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4032.	1.3	45
2523	Surfactant-Free, Large-Scale, Solution-Phase Liquid-Solid Growth of Gallium Phosphide Nanowires and Their Use for Visible-Light-Driven Hydrogen Production from Water Reduction. <i>Journal of the American Chemical Society</i> , 2011, 133, 19306-19309.	6.6	147
2524	Size and Morphology Dependence of ZnO Nanoparticles Synthesized by a Fast Continuous Flow Hydrothermal Method. <i>Crystal Growth and Design</i> , 2011, 11, 4027-4033.	1.4	66
2525	Assembly of individual TiO <sub>2</sub> @C <sub>60</sub> porphyrin hybrid nanoparticles for enhancement of photoconversion efficiency. <i>Nanotechnology</i> , 2011, 22, 275720.	1.3	6
2526	Novel Fluorous Amphiphilic Heteroleptic Ru-Based Complexes for a Dye-Sensitized Solar Cell: The First Fluorous Bis-ponytailed Amphiphilic Ru Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 4289-4294.	1.9	22
2527	High-Performance Solid-State Organic Dye Sensitized Solar Cells with P3HT as Hole Transporter. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7038-7043.	1.5	109
2528	Benzimidazolyl functionalized ionic liquids as an additive for high performance dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 11516.	2.2	44
2529	Ligand-Assisted Fabrication of Small Mesopores in Semi-Crystalline Titanium Oxide Films for High Loading of Ru(II) Dyes. <i>Langmuir</i> , 2011, 27, 11436-11443.	1.6	13
2530	Carrier Transport in Dye-Sensitized Solar Cells Using Single Crystalline TiO <sub>2</sub> Nanorods Grown by a Microwave-Assisted Hydrothermal Reaction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14534-14541.	1.5	71
2531	Adsorption-Site-Dependent Electronic Structure of Catechol on the Anatase TiO <sub>2</sub> (101) Surface. <i>Langmuir</i> , 2011, 27, 8600-8604.	1.6	42
2532	Electrophoretic deposition of mesoporous TiO <sub>2</sub> nanoparticles consisting of primary anatase nanocrystallites on a plastic substrate for flexible dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 8346.	2.2	58
2533	Size-dependent light-scattering effects of nanoporous TiO <sub>2</sub> spheres in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 532-538.	6.7	201

#	ARTICLE	IF	CITATIONS
2534	Improvement of Quantum Dot-Sensitized Solar Cells based on Cds and CdSe Quantum Dots. , 2011, , .		5
2535	Acquired pH-responsive and reversible enrichment of organic dyes by peroxide modified ultrathin TiO <sub>2</sub> nanosheets. Chemical Communications, 2011, 47, 11456.	2.2	27
2536	Renormalization of Optical Excitations in Molecules near a Metal Surface. Physical Review Letters, 2011, 106, 187402.	2.9	98
2537	Enhanced photoelectrochemical activity for Cu and Ti doped hematite: The first principles calculations. Applied Physics Letters, 2011, 98, .	1.5	84
2538	Evolution of zinc oxide nanostructures through kinetics control. Journal of Materials Chemistry, 2011, 21, 9000.	6.7	34
2539	Switchable Wettability in SnO <sub>2</sub> Nanowires and SnO <sub>2</sub> @SnO <sub>2</sub> Heterostructures. Journal of Physical Chemistry C, 2011, 115, 22225-22231.	1.5	49
2540	Light-Induced Charge Transport within a Single Asymmetric Nanowire. Nano Letters, 2011, 11, 3755-3758.	4.5	57
2541	Ultrafast Charge Separation at the CdSe/CdS Core/Shell Quantum Dot/Methylviologen Interface: Implications for Nanocrystal Solar Cells. Journal of Physical Chemistry C, 2011, 115, 3949-3955.	1.5	85
2542	Visible Light Absorption of N-Doped TiO <sub>2</sub> Rutile Using (LR/RT)-TDDFT and Active Space EOMCCSD Calculations. Journal of Physical Chemistry Letters, 2011, 2, 2696-2701.	2.1	26
2543	Electron Attachment to Dye-Sensitized Solar Cell Components: Cyanoacetic Acid. Journal of Physical Chemistry A, 2011, 115, 1100-1107.	1.1	7
2544	Synthesis of high-reactive facets dominated anatase TiO <sub>2</sub> . Journal of Materials Chemistry, 2011, 21, 7052.	6.7	241
2545	Formation of mesoporous TiO <sub>2</sub> with large surface areas, interconnectivity and hierarchical pores for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 17872.	6.7	25
2546	Adsorption and (photo-) electrochemical splitting of water on rutile ruthenium dioxide. Europhysics Letters, 2011, 93, 68001.	0.7	11
2547	Shape Evolution of Highly Crystalline Anatase TiO <sub>2</sub> Nanobipyramids. Crystal Growth and Design, 2011, 11, 5221-5226.	1.4	61
2548	Photo-assisted water oxidation with cobalt-based catalyst formed from thin-film cobalt metal on silicon photoanodes. Energy and Environmental Science, 2011, 4, 2058.	15.6	106
2549	SYNTHETIC CHEMISTRY OF TITANIUM DIOXIDE. , 2011, , 281-328.		1
2550	NANOSTRUCTURED PHOTOELECTRODES FOR SOLAR POWERED APPLICATIONS. , 2011, , 245-280.		1
2551	NANOCRYSTALLINE OXIDE SEMICONDUCTORS FOR DYE-SENSITIZED SOLAR CELLS. , 2011, , 127-173.		0

#	ARTICLE	IF	CITATIONS
2552	Surface Effect and Band-Gap Oscillation of TiO <sub>2</sub> Nanowires and Nanotubes. Journal of Physical Chemistry C, 2011, 115, 13837-13843.	1.5	21
2553	Handbook of Transparent Conductors. , 2011, , .		271
2554	Three-Dimensional Nanoarchitectures. , 2011, , .		19
2555	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. Chemical Science, 2011, 2, 737-743.	3.7	763
2556	Carrier Generation and Collection in CdS/CdSe-Sensitized SnO <sub>2</sub> Solar Cells Exhibiting Unprecedented Photocurrent Densities. ACS Nano, 2011, 5, 3172-3181.	7.3	243
2557	CdS/CdSe-Cosensitized TiO <sub>2</sub> Photoanode for Quantum-Dot-Sensitized Solar Cells by a Microwave-Assisted Chemical Bath Deposition Method. ACS Applied Materials & Interfaces, 2011, 3, 3146-3151.	4.0	135
2558	An Organic D-Ï€-A Dye for Record Efficiency Solid-State Sensitized Heterojunction Solar Cells. Nano Letters, 2011, 11, 1452-1456.	4.5	322
2559	Large-scale synthesis of uniform silver orthophosphate colloidal nanocrystals exhibiting high visible light photocatalytic activity. Chemical Communications, 2011, 47, 7797.	2.2	160
2560	A combined molecular dynamics and computational spectroscopy study of a dye-sensitized solar cell. New Journal of Physics, 2011, 13, 085013.	1.2	13
2561	TiO <sub>2</sub> nanotubes infiltrated with nanoparticles for dye sensitized solar cells. Nanotechnology, 2011, 22, 235402.	1.3	59
2562	â€œClick-chemistryâ€ approach in the design of 1,2,3-triazolyl-pyridine ligands and their Ru(ii)-complexes for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 3726.	6.7	69
2563	Fluorinating Hexagonal Boron Nitride into Diamond-Like Nanofilms with Tunable Band Gap and Ferromagnetism. Journal of the American Chemical Society, 2011, 133, 14831-14838.	6.6	79
2564	Growth and Organization of an Organic Molecular Monolayer on TiO <sub>2</sub> : Catechol on Anatase (101). Journal of the American Chemical Society, 2011, 133, 7816-7823.	6.6	106
2565	Highly efficient fibrous dye-sensitized solar cells based on TiO <sub>2</sub> nanotube arrays. Nanotechnology, 2011, 22, 315402.	1.3	28
2566	Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. Nano Letters, 2011, 11, 2119-2125.	4.5	994
2567	Improved Synthesis and Electrical Properties of Si-Doped Î±-Fe <sub>2</sub> O <sub>3</sub> Nanowires. Journal of Physical Chemistry C, 2011, 115, 12388-12395.	1.5	86
2569	Nitridated TiO <sub>2</sub> hollow nanofibers as an anode material for high power lithium ion batteries. Energy and Environmental Science, 2011, 4, 4532.	15.6	242
2570	Effect of nitrogen and intrinsic defect complexes on conversion efficiency of ZnO for hydrogen generation from water. Physical Chemistry Chemical Physics, 2011, 13, 15973.	1.3	24

#	ARTICLE	IF	CITATIONS
2571	Simple, Unambiguous Theoretical Approach to Oxidation State Determination via First-Principles Calculations. <i>Inorganic Chemistry</i> , 2011, 50, 10259-10267.	1.9	103
2572	Thiocyanate Linkage Isomerism in a Ruthenium Polypyridyl Complex. <i>Inorganic Chemistry</i> , 2011, 50, 11938-11946.	1.9	50
2573	Enhanced Incident Photon-to-Electron Conversion Efficiency of Tungsten Trioxide Photoanodes Based on 3D-Photonic Crystal Design. <i>ACS Nano</i> , 2011, 5, 4310-4318.	7.3	267
2574	Photocurrent generation by direct electron transfer using photosynthetic reaction centres. <i>Smart Materials and Structures</i> , 2011, 20, 094019.	1.8	32
2575	A Novel Counter Electrode Based on Hierarchical Porous Carbon for Dye-Sensitized Solar Cells. <i>Materials Science Forum</i> , 0, 685, 1-5.	0.3	1
2576	Fabrication of the Effective Counter Electrode for Dye-Sensitized Solar Cells. <i>Advanced Materials Research</i> , 2011, 197-198, 1143-1146.	0.3	3
2578	Facile Synthesis of Nanocrystalline TiO <sub>2</sub> Mesoporous Microspheres for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2529-2536.	1.5	242
2579	1-D Selenidoindates {[In <sub>2</sub> Se <sub>5</sub> ]} <sup>2-</sup> Directed by Chiral Metal Complex Cations of 1,10-Phenanthroline. <i>Inorganic Chemistry</i> , 2011, 50, 10872-10877.	1.9	22
2580	Graphene Nanoplatelets Outperforming Platinum as the Electrocatalyst in Co-Bipyridine-Mediated Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2011, 11, 5501-5506.	4.5	350
2581	Different Effects of a Cotemplate and [(Transition-Metal)(1,10-Phenanthroline) <sub>2</sub> ] <sup>2+</sup> ( <i>m</i> = 1-3) Complex Cations on the Self-assembly of a Series of Hybrid Selenidostannates Showing Combined Optical Properties of Organic and Inorganic Components. <i>Inorganic Chemistry</i> , 2011, 50, 9660-9669.	1.9	47
2582	Ultrathin TiO <sub>2</sub> Films on ZnO Electron-Collecting Layers of Inverted Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21517-21520.	1.5	65
2583	Ligand-Triplet-Fueled Long-Lived Charge Separation in Ruthenium(II) Complexes with Bithienyl-Functionalized Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 9939-9941.	1.9	27
2584	Photovoltaic Conversion Enhancement of CdSe Quantum Dot-Sensitized TiO <sub>2</sub> Decorated with Au Nanoparticles and P3OT. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23209-23220.	1.5	53
2585	Tracking the Adsorption and Electron Injection Rates of CdSe Quantum Dots on TiO <sub>2</sub> : Linked versus Direct Attachment. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13511-13519.	1.5	167
2586	On the viability of cyclometalated Ru(II) complexes as dyes in DSSC regulated by COOH group, a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2206-2213.	1.3	64
2587	Influence of sintering temperature on energy conversion efficiency in dye-sensitized solar cell. , 2011, , .		0
2589	Growth of Titanium Dioxide Nanorods in 3D-Confined Spaces. <i>Nano Letters</i> , 2011, 11, 624-631.	4.5	79
2590	A Multitechnique Physicochemical Investigation of Various Factors Controlling the Photoaction Spectra and of Some Aspects of the Electron Transfer for a Series of Push-Pull Zn(II) Porphyrins Acting as Dyes in DSSCs. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23170-23182.	1.5	45

#	ARTICLE	IF	CITATIONS
2591	Visible-light photocurrent response of TiO <sub>2</sub> –polyheptazine hybrids: evidence for interfacial charge-transfer absorption. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21511.	1.3	146
2592	An all-inorganic type-II heterojunction array with nearly full solar spectral response based on ZnO/ZnSe core/shell nanowires. <i>Journal of Materials Chemistry</i> , 2011, 21, 6020.	6.7	120
2593	Planar scattering from hierarchical anatase TiO <sub>2</sub> nanoplates with variable shells to improve light harvesting in dye-sensitized solar cells. <i>Chemical Communications</i> , 2011, 47, 5046.	2.2	87
2594	Effect of hydration of the TiO <sub>2</sub> anatase (101) substrate on the atomic layer deposition of alumina films. <i>Journal of Materials Chemistry</i> , 2011, 21, 4197.	6.7	17
2595	Adsorption CO <sub>2</sub> on the perfect and oxygen vacancy defect surfaces of anatase TiO <sub>2</sub> and its photocatalytic mechanism of conversion to CO. <i>Applied Surface Science</i> , 2011, 257, 10322-10328.	3.1	106
2596	Novel fabrication of net-like and flake-like Fe doped TiO <sub>2</sub> thin films. <i>Applied Surface Science</i> , 2011, 257, 9621-9625.	3.1	10
2597	Enhanced antibacterial performance of hybrid semiconductor nanomaterials: ZnO/SnO <sub>2</sub> nanocomposite thin films. <i>Applied Surface Science</i> , 2011, 258, 547-555.	3.1	81
2598	STM studies of PTCDA supramolecular self-assembling on anisotropic surfaces of reconstructed InSb. <i>Applied Surface Science</i> , 2011, 258, 1300-1305.	3.1	4
2599	Platinum-coated nanostructured oxides for active catalytic electrodes. <i>Catalysis Communications</i> , 2011, 14, 58-61.	1.6	4
2600	Direct vs. indirect mechanisms for electron injection in DSSC: Catechol and alizarin. <i>Computational and Theoretical Chemistry</i> , 2011, 975, 99-105.	1.1	49
2601	DFT and TD-DFT investigations of metal-free dye sensitizers for solar cells: Effects of electron donors and $\pi$ -conjugated linker. <i>Computational and Theoretical Chemistry</i> , 2011, 971, 42-50.	1.1	56
2602	Curvature, rigidity, and pattern formation in functional polymer micelles and vesicles – From dynamic visualization to molecular simulation. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 277-284.	5.6	33
2603	Preparation of High Photocatalyst Mesoporous TiO <sub>2</sub> from Nanosheets Using Autoclave Unit (Thai) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.8	4
2604	Effect Of Calcination Temperatures On Structures Of Tio2 Powders Prepared By Hydrothermal Method Using Thai Leucoxene Mineral. <i>Energy Procedia</i> , 2011, 9, 539-544.	1.8	22
2605	Solution and solid-state interactions in a supramolecular ruthenium photosensitizer–polyoxometalate aggregate. <i>Chemical Communications</i> , 2011, 47, 6852.	2.2	27
2606	Novel Pyrenoimidazole-Based Organic Dyes for Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2011, 13, 2622-2625.	2.4	68
2607	Growth of hierarchical TiO <sub>2</sub> nanostructures on anatase nanofibers and their application in photocatalytic activity. <i>CrystEngComm</i> , 2011, 13, 3021.	1.3	48
2608	Electron-rich heteroaromatic conjugated polypyridine ruthenium sensitizers for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2011, 40, 12421.	1.6	70

#	ARTICLE	IF	CITATIONS
2609	Interactions of same-row oxygen vacancies on rutile TiO <sub>2</sub> (110). <i>Physical Review B</i> , 2011, 84, .	1.1	2
2610	Theoretical Investigation of the Hydrogenation of (TiO <sub>2</sub> ) <sub>N</sub> Clusters (<math>N \le 10</math>). <i>Journal of Physical Chemistry C</i> , 2011, 115, 15890-15899.	1.5	69
2611	Theoretical studies of dye-sensitized solar cells: from electronic structure to elementary processes. <i>Energy and Environmental Science</i> , 2011, 4, 4473.	15.6	187
2612	Growth of a Plate-Shaped SrTiO <sub>3</sub> –TiO <sub>2</sub> Eutectic. <i>Crystal Growth and Design</i> , 2011, 11, 3935-3940.	1.4	16
2613	Electron Transfer Between Colloidal ZnO Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 4228-4231.	6.6	51
2614	Enhancement of dye-sensitized photocurrents by gold nanoparticles: effects of dye–particle spacing. <i>Nanoscale</i> , 2011, 3, 2865.	2.8	60
2615	TiO <sub>2</sub> nanotubes: Structure optimization for solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 9406.	6.7	180
2616	Can Polypyridyl Cu(I)-based Complexes Provide Promising Sensitizers for Dye-Sensitized Solar Cells? A Theoretical Insight into Cu(I) versus Ru(II) Sensitizers. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3753-3761.	1.5	76
2617	Highly efficient hydrogen storage with PdAg nanotubes. <i>Nanoscale</i> , 2011, 3, 2476.	2.8	25
2618	Optical and electrical study of core-shell silicon nanowires for solar applications. <i>Optics Express</i> , 2011, 19, A1057.	1.7	15
2619	Enhancing the linear absorption and tuning the nonlinearity of TiO <sub>2</sub> nanowires through the incorporation of Ag nanoparticles. <i>Optics Letters</i> , 2011, 36, 3443.	1.7	8
2620	Simulation of Solution Phase Electron Transfer in a Compact Donor–Acceptor Dyad. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12135-12144.	1.2	27
2621	Dynamic Study of Highly Efficient CdS/CdSe Quantum Dot-Sensitized Solar Cells Fabricated by Electrodeposition. <i>ACS Nano</i> , 2011, 5, 9494-9500.	7.3	249
2622	Photoelectrochemical investigations of cadmium sulphide (CdS) thin film electrodes prepared by spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5394-5399.	2.8	60
2623	Charge transport and recombination in dye-sensitized solar cells based on hybrid films of TiO <sub>2</sub> particles/TiO <sub>2</sub> nanotubes. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7808-7813.	2.8	38
2624	Cascade structure of TiO <sub>2</sub> /ZnO/CdS film for quantum dot sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7814-7818.	2.8	46
2625	The reversal constituent structure of photo-electrode in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8670-8675.	2.8	2
2626	Anatase TiO <sub>2</sub> sols derived from peroxotitanium acid and to form transparent TiO <sub>2</sub> compact film for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10121-10126.	2.8	27

#	ARTICLE	IF	CITATIONS
2627	Highly Efficient CdS Quantum Dot-Sensitized Solar Cells Based on a Modified Polysulfide Electrolyte. <i>Journal of the American Chemical Society</i> , 2011, 133, 8458-8460.	6.6	257
2628	A Convenient Route to High Area, Nanoparticulate TiO <sub>2</sub> Photoelectrodes Suitable for High-Efficiency Energy Conversion in Dye-Sensitized Solar Cells. <i>Langmuir</i> , 2011, 27, 1996-1999.	1.6	30
2629	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. <i>Journal of Materials Chemistry</i> , 2011, 21, 2517.	6.7	51
2630	D-π-A organic dyes with carbazole as donor for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2011, 161, 96-105.	2.1	100
2631	Effects of anchoring groups in multi-anchoring organic dyes with thiophene bridge for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2011, 161, 850-855.	2.1	59
2632	Polypyridyl Ru(II)-sensitizers with extended π-system enhances the performance of dye sensitized solar cells. <i>Synthetic Metals</i> , 2011, 161, 1098-1104.	2.1	25
2633	Photovoltaic and impedance spectroscopy analysis of p-n like junction for dye sensitized solar cell. <i>Synthetic Metals</i> , 2011, 161, 1299-1305.	2.1	26
2634	Novel 1,3,4-oxadiazole derivatives as efficient sensitizers for dye-sensitized solar cells: A combined experimental and computational study. <i>Synthetic Metals</i> , 2011, 161, 1671-1681.	2.1	39
2635	Electrogenerated chemiluminescence of anatase TiO <sub>2</sub> nanotubes film. <i>Talanta</i> , 2011, 85, 56-62.	2.9	20
2636	Large-scale synthesis of hollow titania spheres via flame combustion. <i>Particuology</i> , 2011, 9, 632-636.	2.0	9
2637	An Interfacial and Bulk Charge Transport Model for Dye-Sensitized Solar Cells Based on Photoanodes Consisting of Core-Shell Nanowire Arrays. <i>Journal of the American Chemical Society</i> , 2011, 133, 18663-18672.	6.6	32
2638	Organic non-fullerene acceptors for organic photovoltaics. <i>Energy and Environmental Science</i> , 2011, 4, 1558.	15.6	366
2639	Tunable asymmetric reflectance in silver films near the percolation threshold. <i>Journal of Applied Physics</i> , 2011, 109, 093524.	1.1	1
2640	Hexagonal TiO <sub>2</sub> for Photoelectrochemical Applications. <i>Journal of Physical Chemistry C</i> , 2011, 115, 18042-18045.	1.5	17
2641	Patterned 3-dimensional metal grid electrodes as alternative electron collectors in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19314.	1.3	10
2642	Nanostructure control of graphene-composited TiO <sub>2</sub> by a one-step solvothermal approach for high performance dye-sensitized solar cells. <i>Nanoscale</i> , 2011, 3, 4613.	2.8	100
2643	Electron Mobility and Injection Dynamics in Mesoporous ZnO, SnO <sub>2</sub> , and TiO <sub>2</sub> Films Used in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2011, 5, 5158-5166.	7.3	698
2644	Organic Dye Bearing Asymmetric Double Donor-π-Acceptor Chains for Dye-Sensitized Solar Cells. <i>Journal of Organic Chemistry</i> , 2011, 76, 8015-8021.	1.7	140



#	ARTICLE	IF	CITATIONS
2645	2,7-Diaminofluorene-Based Organic Dyes for Dye-Sensitized Solar Cells: Effect of Auxiliary Donor on Optical and Electrochemical Properties. <i>Journal of Organic Chemistry</i> , 2011, 76, 4910-4920.	1.7	97
2646	Fabrication and enhanced visible-light photocatalytic activity of carbon self-doped TiO <sub>2</sub> sheets with exposed {001} facets. <i>Journal of Materials Chemistry</i> , 2011, 21, 1049-1057.	6.7	390
2647	Effect of Highly Ordered Single-Crystalline TiO <sub>2</sub> Nanowire Length on the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4349-4353.	4.0	74
2648	Effect of Annealing Temperature on TiO <sub>2</sub> @ZnO Core-Shell Aggregate Photoelectrodes of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4927-4934.	1.5	87
2649	Synthesis of a novel unsymmetrical Zn(II) phthalocyanine bearing a phenyl ethynyl moiety as sensitizer for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2011, 40, 38-40.	1.6	16
2650	Controlled synthesis of semiconductor nanostructures in the liquid phase. <i>Chemical Society Reviews</i> , 2011, 40, 5492.	18.7	199
2651	Particle Size, Shape and Activity for Photocatalysis on Titania Anatase Nanoparticles in Aqueous Surroundings. <i>Journal of the American Chemical Society</i> , 2011, 133, 15743-15752.	6.6	271
2652	Enhanced light harvesting with $\pi$ -conjugated cyclic aromatic hydrocarbons for porphyrin-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 1788.	15.6	159
2653	Dye functionalisation of PAMAM-type dendrons grown from vertically aligned single-walled carbon nanotube arrays for light harvesting antennae. <i>Journal of Materials Chemistry</i> , 2011, 21, 18597.	6.7	6
2654	Three-Dimensional Photovoltaic Devices Based on Vertically Aligned Nanowire Array. , 2011, , 447-475.		0
2655	TiO <sub>2</sub> Photocatalysis for the Redox Conversion of Aquatic Pollutants. <i>ACS Symposium Series</i> , 2011, , 199-222.	0.5	15
2656	Synthesis of micro-sized titanium dioxide nanosheets wholly exposed with high-energy {001} and {100} facets. <i>Chemical Communications</i> , 2011, 47, 4400.	2.2	153
2657	Nanoporous Anatase TiO <sub>2</sub> Mesocrystals: Additive-Free Synthesis, Remarkable Crystalline-Phase Stability, and Improved Lithium Insertion Behavior. <i>Journal of the American Chemical Society</i> , 2011, 133, 933-940.	6.6	598
2658	Crystal facet engineering of semiconductor photocatalysts: motivations, advances and unique properties. <i>Chemical Communications</i> , 2011, 47, 6763.	2.2	867
2659	Infrared absorption of the hydrogen donor in rutile TiO <sub>2</sub> $\frac{d\epsilon}{d\lambda} = \frac{d\epsilon}{d\lambda} \frac{d\lambda}{d\lambda} = \frac{d\epsilon}{d\lambda} \frac{d\lambda}{d\lambda}$ <i>Physical Review B</i> , 2011, 83, .	1.1	49
2660	Periodic Mesoporous Materials: Holes Filled with Opportunities. , 2011, , 69-125.		6
2661	Impact of surface chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 917-924.	3.3	198
2662	Graphene, carbon nanotube and ionic liquid mixtures: towards new quasi-solid state electrolytes for dye sensitised solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 16990.	6.7	82

#	ARTICLE	IF	CITATIONS
2663	A New Class of Cyclometalated Ruthenium Sensitizers of the Type $\Lambda^2N$ for Efficient Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2011, 50, 11340-11347.	1.9	59
2664	DFT Investigations of Formic Acid Adsorption on Single-Wall $TiO_2$ Nanotubes: Effect of the Surface Curvature. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2179-2186.	1.5	49
2665	Photocatalytic Conversion of $CO_2$ to Hydrocarbon Fuels via Plasmon-Enhanced Absorption and Metallic Interband Transitions. <i>ACS Catalysis</i> , 2011, 1, 929-936.	5.5	498
2666	Titania and Pt/titania aerogels as superior mesoporous structures for photocatalytic water splitting. <i>Journal of Materials Chemistry</i> , 2011, 21, 12668.	6.7	41
2667	Coupled Optical and Electronic Modeling of Dye-Sensitized Solar Cells for Steady-State Parameter Extraction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10218-10229.	1.5	58
2668	A visible light water-splitting cell with a photoanode formed by codeposition of a high-potential porphyrin and an iridium water-oxidation catalyst. <i>Energy and Environmental Science</i> , 2011, 4, 2389.	15.6	257
2669	Solvent-free ionic liquid/poly(ionic liquid) electrolytes for quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 7326.	6.7	113
2670	Phenothiazine conjugated bipyridine as ancillary ligand in Ru(II)-complexes for application in dye sensitized solar cell. <i>Synthetic Metals</i> , 2011, 161, 1469-1476.	2.1	25
2671	Energy cost of materials: materials for thin-film photovoltaics as an example. , 0, , 48-60.		0
2672	Direct Solar Energy. , 2011, , 333-400.		25
2673	The Application of Inorganic Nanomaterials in Dye-Sensitized Solar Cells. , 0, , .		0
2674	Ordered Semiconductor Photoanode Films for Dye-Sensitized Solar Cells Based on Zinc Oxide-Titanium Oxide Hybrid Nanostructures. , 0, , .		3
2675	Ionic Liquid Based Electrolytes for Dye-Sensitized Solar Cells. , 0, , .		2
2676	Adsorbate-localized states at water-covered (100) $SrTiO_3$ surfaces. <i>Applied Physics Letters</i> , 2011, 98, 012106.	1.5	8
2677	Metal Oxides and Their Composites for the Photoelectrode of Dye Sensitized Solar Cells. , 0, , .		9
2678	Fabrication, Doping and Characterization of Polyaniline and Metal Oxides: Dye Sensitized Solar Cells. , 0, , .		8
2679	Organic-Ruthenium(II) Polypyridyl Complex Based Sensitizer for Dye-Sensitized Solar Cell Applications. <i>Advances in OptoElectronics</i> , 2011, 2011, 1-8.	0.6	11
2680	Novel Approach for the Synthesis of Nanocrystalline Anatase Titania and Their Photovoltaic Application. <i>Advances in OptoElectronics</i> , 2011, 2011, 1-5.	0.6	18

#	ARTICLE	IF	CITATIONS
2681	Enhancement in Photoelectrochemical Efficiency by Fabrication of BiVO <sub>4</sub> @MWCNT Nanocomposites. Journal of Nanotechnology, 2011, 2011, 1-6.	1.5	8
2682	Substitution of Carbazole Modified Fluorenes as $\pi$ -Extension in Ru(II) Complex-Influence on Performance of Dye-Sensitized Solar Cells. Advances in OptoElectronics, 2011, 2011, 1-10.	0.6	3
2683	Photovoltaic Performance of ZnO Nanosheets Solar Cell Sensitized with Beta-Substituted Porphyrin. Journal of Nanomaterials, 2011, 2011, 1-9.	1.5	9
2684	High Molar Extinction Coefficient Ru(II)-Mixed Ligand Polypyridyl Complexes for Dye Sensitized Solar Cell Application. Advances in OptoElectronics, 2011, 2011, 1-11.	0.6	3
2685	Dye-Sensitized Solar Cells Based on High Surface Area Nanocrystalline Zinc Oxide Spheres. Advances in OptoElectronics, 2011, 2011, 1-5.	0.6	2
2686	(Photo)electrochemical Methods for the Determination of the Band Edge Positions of TiO <sub>2</sub> -Based Nanomaterials. Advances in Physical Chemistry, 2011, 2011, 1-20.	2.0	287
2687	Survey of Photovoltaic Industry and Policy in Germany and China. SSRN Electronic Journal, 2011, , .	0.4	5
2688	Development of Potassium Polytitanates Nanoadsorbents for the Removal of Lead Ions from Water - Dynamic Processes. , 2011, , .		1
2692	ZnO Nanorodsâ€”A Backbone for PV's. Ferroelectrics, 2011, 420, 19-24.	0.3	0
2694	Molecular optical switches based on [Ru(OAc)(2cqn)2NO](H2cqn=2-chloro-8-quinolinol). , 2011, , .		0
2695	Optimisation of zinc oxide nanorods for use in dye sensitised solar cells. Materials Research Innovations, 2011, 15, 401-405.	1.0	1
2696	Hybridization of Photoactive Titania Nanoparticles with Mesoporous Silica Nanoparticles and Investigation of Their Photocatalytic Activity. Bulletin of the Chemical Society of Japan, 2011, 84, 812-817.	2.0	29
2699	Electrodeposition of nanoporous ZnO on Al-doped ZnO leading to a highly organized structure for integration in Dye Sensitized Solar Cells. EPJ Photovoltaics, 2011, 2, 20401.	0.8	7
2700	Dye-sensitized Solar Cells Based on Novel Diphenylpyran Derivatives. Chemistry Letters, 2011, 40, 510-511.	0.7	18
2701	Molecular Design of Ruthenium Complexes for Dye-Sensitized Solar Cells Based on Nanocrystalline TiO <sub>2</sub> . Current Organic Chemistry, 2011, 15, 3849-3869.	0.9	8
2702	Influences of Silver-Doping on the Crystal Structure, Morphology and Photocatalytic Activity of TiO <sub>2</sub> &lt;sub>2&lt;/sub>&lt;sup>+&lt;/sup> Nanofibers. Materials Sciences and Applications, 2011, 02, 1188-1193.	0.3	4
2703	Compressional, temporal, and compositional behavior of H <sub>2</sub> -O <sub>2</sub> compound formed by high pressure x-ray irradiation. Journal of Chemical Physics, 2011, 134, 234502.	1.2	2
2704	Mechanism of the performance improvement of TiO <sub>2</sub> -based field-effect transistor using SiO <sub>2</sub> as gate insulator. AIP Advances, 2011, 1, .	0.6	14

#	ARTICLE	IF	CITATIONS
2705	Effect of Calcination Temperature and Environment on Photocatalytic and Mechanical Properties of Ultrathin Sol-Gel Titanium Dioxide Films. <i>Journal of the American Ceramic Society</i> , 2011, 94, 1101-1108.	1.9	13
2706	Bioinspired molecular co-catalysts bonded to a silicon photocathode for solar hydrogen evolution. <i>Nature Materials</i> , 2011, 10, 434-438.	13.3	600
2707	Highly active oxide photocathode for photoelectrochemical water reduction. <i>Nature Materials</i> , 2011, 10, 456-461.	13.3	1,894
2708	Tailoring optical properties of TiO <sub>2</sub> nanowires coated with Ag nanoparticles by plasmon coupling of Ag nanoparticles. <i>Solid State Communications</i> , 2011, 151, 2008-2011.	0.9	3
2709	Aging of nanocluster Ti/TiO <sub>x</sub> films prepared by means of gas aggregation cluster source. <i>Surface and Coatings Technology</i> , 2011, 205, S48-S52.	2.2	13
2710	Fluorenylvinylenes bridged triphenylamine-based dyes with enhanced performance in dye-sensitized solar cells. <i>Tetrahedron</i> , 2011, 67, 8477-8483.	1.0	43
2711	Effects of atomic layer deposited HfO <sub>2</sub> compact layer on the performance of dye-sensitized solar cells. <i>Thin Solid Films</i> , 2011, 519, 7803-7808.	0.8	56
2712	Influence of capacitance characteristic on I <sub>sc</sub> -V measurement of dye-sensitized solar cells. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 1551-1555.	2.5	16
2713	mesoporous thin films studied by Atmospheric Ellipsometric Porosimetry: A case of contamination. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 1-8.	2.2	7
2714	Thermal stress effects on Dye-Sensitized Solar Cells (DSSCs). <i>Microelectronics Reliability</i> , 2011, 51, 1762-1766.	0.9	36
2715	Progress in light harvesting and charge injection of dye-sensitized solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1142-1160.	1.7	128
2716	Bifunctional photocatalysis of TiO <sub>2</sub> /Cu <sub>2</sub> O composite under visible light: Ti <sup>3+</sup> in organic pollutant degradation and water splitting. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1104-1109.	1.9	64
2717	Expanding the photoresponse range of TiO <sub>2</sub> nanotube arrays by CdS/CdSe/ZnS quantum dots co-modification. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 224, 25-30.	2.0	49
2718	New pyran dyes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 224, 116-122.	2.0	45
2719	Molecular engineering of thia-bridged triphenylamine heterohelicenes as novel organic dyes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 225, 17-25.	2.0	12
2720	Visible light-induced hydrogen production from glycerol aqueous solution on hybrid Pt/CdS/TiO <sub>2</sub> photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 226, 36-41.	2.0	57
2721	Improvement on the long-term stability of flexible plastic dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 8897-8903.	4.0	35
2722	Enhanced efficiency of dye-sensitized solar cells through TiCl <sub>4</sub> -treated, nanoporous-layer-covered TiO <sub>2</sub> nanotube arrays. <i>Journal of Power Sources</i> , 2011, 196, 8904-8908.	4.0	58

#	ARTICLE	IF	CITATIONS
2723	Precise modification of the interface between titanium dioxide and electrolyte of dye-sensitized solar cells with oxides deposited by thermal evaporation of metals and subsequent oxidation. <i>Journal of Power Sources</i> , 2011, 196, 10538-10542.	4.0	21
2724	Photoelectrochemical water splitting and simultaneous photoelectrocatalytic degradation of organic pollutant on highly smooth and ordered TiO <sub>2</sub> nanotube arrays. <i>Journal of Solid State Chemistry</i> , 2011, 184, 3202-3207.	1.4	44
2725	Review: Dye sensitized solar cells based on natural photosensitizers. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 16, 208-208.	8.2	138
2726	Electrochemical electrodes of graphene-based carbon nanotubes grown by chemical vapor deposition. <i>Scripta Materialia</i> , 2011, 64, 601-604.	2.6	42
2727	Thin TiO <sub>2</sub> films prepared by inkjet printing of the reverse micelles sol-gel composition. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 371-378.	4.0	32
2728	Effects of aromatic $\pi$ -conjugated bridges on optical and photovoltaic properties of N,N-diphenylhydrazone-based metal-free organic dyes. <i>Organic Electronics</i> , 2011, 12, 1992-2002.	1.4	57
2729	Influences of textures in fluorine-doped tin oxide on characteristics of dye-sensitized solar cells. <i>Organic Electronics</i> , 2011, 12, 2003-2011.	1.4	31
2730	Nonlocal continuum-based modeling of a nanoplate subjected to a moving nanoparticle. Part II: Parametric studies. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 249-269.	1.3	26
2731	Electron transport through molecular junctions. <i>Physics Reports</i> , 2011, 509, 1-87.	10.3	161
2732	Effect of TiO <sub>2</sub> electrode thickness on photovoltaic properties of dye sensitized solar cell based on randomly oriented Titania nanotubes. <i>Materials Chemistry and Physics</i> , 2011, 127, 95-101.	2.0	42
2733	Enhanced photovoltaic performances of dye-sensitized solar cell using self-charring phosphate ester surfactant. <i>Materials Chemistry and Physics</i> , 2011, 130, 203-210.	2.0	5
2734	Annealing study of titanium oxide nanotube arrays. <i>Materials Chemistry and Physics</i> , 2011, 130, 1227-1231.	2.0	54
2735	Water concentration controlled hydrolysis and crystallization in n-octanol to TiO <sub>2</sub> nanocrystals with size below 10nm. <i>Materials Chemistry and Physics</i> , 2011, 130, 1294-1299.	2.0	4
2736	TiO <sub>2</sub> @MWCNT rice grain-shaped nanocomposites—Synthesis, characterization and photocatalysis. <i>Materials Research Bulletin</i> , 2011, 46, 588-595.	2.7	69
2737	Dye sensitized solar cell based on platinum decorated multiwall carbon nanotubes as catalytic layer on the counter electrode. <i>Materials Research Bulletin</i> , 2011, 46, 2045-2049.	2.7	29
2738	Immobilizing ZnO nanoparticles to porous film by occlusion electrosynthesis for photoelectrochemical cells. <i>Materials Letters</i> , 2011, 65, 614-616.	1.3	3
2739	The application of freestanding titanate nanofiber paper for scattering layers in dye-sensitized solar cells. <i>Materials Letters</i> , 2011, 65, 1157-1160.	1.3	6
2740	Dye sensitized solar cells based on zinc oxide bottle brush. <i>Materials Letters</i> , 2011, 65, 2235-2237.	1.3	32

#	ARTICLE	IF	CITATIONS
2741	Synthesis and characterization of rice grains like Nitrogen-doped TiO <sub>2</sub> nanostructures by electrospinning photocatalysis. <i>Materials Letters</i> , 2011, 65, 3064-3068.	1.3	61
2742	Increase in efficiency of dye-sensitized solar cells by porous TiO <sub>2</sub> layer modification with gadolinium-containing thin layer. <i>Journal of Rare Earths</i> , 2011, 29, 783-786.	2.5	22
2743	Structural and electronic properties of Eu- and Pd-doped ZnO. <i>Nanoscale Research Letters</i> , 2011, 6, 357.	3.1	41
2744	The effect of water on the performance of TiO <sub>2</sub> in photocatalytic selective alkane oxidation. <i>Journal of Catalysis</i> , 2011, 277, 129-133.	3.1	28
2745	Plasmonic enhancement of photocatalytic decomposition of methyl orange under visible light. <i>Journal of Catalysis</i> , 2011, 277, 149-153.	3.1	171
2746	Gelation of ionic liquid with exfoliated montmorillonite nanoplatelets and its application for quasi-solid-state dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 635-639.	5.0	30
2747	Control of valence states in Rh-doped TiO <sub>2</sub> by Sb co-doping: A study by high resolution X-ray photoemission spectroscopy. <i>Chemical Physics Letters</i> , 2011, 515, 249-253.	1.2	25
2748	Size-dependent electronic structure of rutile TiO <sub>2</sub> quantum dots. <i>Chemical Physics Letters</i> , 2011, 516, 68-71.	1.2	20
2749	The impact of bromine substitution on the photophysical properties of a homodinuclear Ru(tphz)Ru complex. <i>Chemical Physics Letters</i> , 2011, 516, 45-50.	1.2	7
2750	A composite counter electrode of CoS/MWCNT with high electrocatalytic activity for dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2011, 13, 977-980.	2.3	82
2751	Quasi-solid-state dye-sensitized solar cells assembled by in-situ chemical cross-linking at ambient temperature. <i>Electrochemistry Communications</i> , 2011, 13, 1284-1287.	2.3	14
2752	Faradaic impedance to analyze charge recombination in photoelectrode of dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2011, 56, 7975-7975.	2.6	22
2753	Conducting polymer-based counter electrode for a quantum-dot-sensitized solar cell (QDSSC) with a polysulfide electrolyte. <i>Electrochimica Acta</i> , 2011, 57, 277-284.	2.6	128
2754	Synthesis of acetyl imidazolium-based electrolytes and application for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 57, 285-289.	2.6	7
2755	Fabrication of morphology controllable rutile TiO <sub>2</sub> nanowire arrays by solvothermal route for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 7696-7702.	2.6	24
2756	Low temperature preparation of a high performance Pt/SWCNT counter electrode for flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 8545-8550.	2.6	68
2757	Ionic liquid/polymer composite electrolytes by in situ photopolymerization and their application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 8680-8687.	2.6	33
2758	Cathodic electrodeposition of highly porous cobalt sulfide counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 8818-8826.	2.6	161

#	ARTICLE	IF	CITATIONS
2759	Iodide-conducting polymer electrolytes based on poly-ethylene glycol and MgI <sub>2</sub> : Synthesis and structural characterization. <i>Electrochimica Acta</i> , 2011, 57, 112-122.	2.6	37
2760	Partially dyed-TiO <sub>2</sub> dispersions for adaptation to the continuous fabrication of photoanodes. <i>Electrochimica Acta</i> , 2011, 56, 9476-9481.	2.6	6
2761	Preparation of PAA-g-CTAB/PANI polymer based gel-electrolyte and the application in quasi-solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 58, 52-57.	2.6	45
2762	Electrophoretic deposition of carbon nanotubes films as counter electrodes of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 10288-10291.	2.6	61
2763	Fabrication of high performance Pt/Ti counter electrodes on Ti mesh for flexible large-area dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 58, 621-627.	2.6	28
2764	Shedding light on solar technologies—A techno-economic assessment and its policy implications. <i>Energy Policy</i> , 2011, 39, 6422-6439.	4.2	99
2765	Comparing Cr, and N only doping with (Cr, N)-codoping for enhancing visible light reactivity of TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2011, 110, 148-153.	10.8	37
2766	Cubic clusters of indium chalcogenides with 2,2-bipyridine ligand, a comprehensive view of [InQ(phen/bpy)Cl] <sub>4</sub> (Q=S, Se) compounds. <i>Inorganica Chimica Acta</i> , 2011, 376, 645-650.	1.2	3
2767	Charge transfer in iron oxide photoanode modified with carbon nanotubes for photoelectrochemical water oxidation: An electrochemical impedance study. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9462-9468.	3.8	62
2768	Photoresponse and H <sub>2</sub> production of topographically controlled PEG assisted Sol-gel WO <sub>3</sub> nanocrystalline thin films. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13461-13472.	3.8	39
2769	Copper oxide nanoparticle made by flame spray pyrolysis for photoelectrochemical water splitting – Part II. Photoelectrochemical study. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15519-15526.	3.8	123
2770	Photoresponse and stability improvement of ZnO nanorod array thin film as a single layer of photoelectrode for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15538-15547.	3.8	65
2771	Synthesis of MWNTs using thermal chemical vapor deposition for the application of a counter electrode for DSSCs. <i>Current Applied Physics</i> , 2011, 11, S69-S72.	1.1	12
2772	Contributions to the development of ruthenium-based sensitizers for dye-sensitized solar cells. <i>Coordination Chemistry Reviews</i> , 2011, 255, 2602-2621.	9.5	220
2773	A computational approach to the electronic and optical properties of Ru(II) and Ir(III) polypyridyl complexes: Applications to DSC, OLED and NLO. <i>Coordination Chemistry Reviews</i> , 2011, 255, 2704-2726.	9.5	161
2774	Crystallization of anatase nanoparticles from amorphous precipitate by a continuous hydrothermal process. <i>Chemical Engineering Journal</i> , 2011, 174, 445-451.	6.6	23
2775	A comparative study of the effects of In <sub>2</sub> O <sub>3</sub> and SnO <sub>2</sub> modification on the photocatalytic activity and characteristics of TiO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2011, 175, 49-55.	6.6	22
2776	Polyoxometalates in the Design of Effective and Tunable Water Oxidation Catalysts. <i>Israel Journal of Chemistry</i> , 2011, 51, 238-246.	1.0	37

#	ARTICLE	IF	CITATIONS
2777	Visible light-driven water oxidationâ€”from molecular catalysts to photoelectrochemical cells. <i>Energy and Environmental Science</i> , 2011, 4, 3296.	15.6	209
2778	Thin Films of Sodium Birnessite-Type MnO <sub>2</sub> : Optical Properties, Electronic Band Structure, and Solar Photoelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11830-11838.	1.5	249
2779	Light-driven bioinspired water splitting: Recent developments in photoelectrode materials. <i>Comptes Rendus Chimie</i> , 2011, 14, 799-810.	0.2	20
2780	A perspective on solar-driven water splitting with all-oxide hetero-nanostructures. <i>Energy and Environmental Science</i> , 2011, 4, 3889.	15.6	219
2781	Picosecond Electron Injection Dynamics in Dye-Sensitized Oxides in the Presence of Electrolyte. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2578-2584.	1.5	63
2782	Trends in Metal Oxide Stability for Nanorods, Nanotubes, and Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2244-2252.	1.5	52
2783	Influence of Excitation Wavelength (UV or Visible Light) on the Photocatalytic Activity of Titania Containing Gold Nanoparticles for the Generation of Hydrogen or Oxygen from Water. <i>Journal of the American Chemical Society</i> , 2011, 133, 595-602.	6.6	927
2784	Biopolymer stabilized nanoparticles as co-catalysts for photocatalytic water oxidations. <i>Polymer Chemistry</i> , 2011, 2, 1375.	1.9	9
2785	Prediction of semiconductor band edge positions in aqueous environments from first principles. <i>Physical Review B</i> , 2011, 83, .	1.1	101
2786	Foundations of Plasmonics. <i>Advances in Physics</i> , 2011, 60, 799-898.	35.9	121
2787	p-Type Dye-Sensitized NiO Solar Cells: A Study by Electrochemical Impedance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25109-25114.	1.5	101
2788	Modified TiO <sub>2</sub> nanotube arrays (TNTAs): progressive strategies towards visible light responsive photoanode, a review. <i>Energy and Environmental Science</i> , 2011, 4, 1065.	15.6	265
2789	Structure, electronic, and optical properties of TiO <sub>2</sub> atomic clusters: An <i>ab initio</i> study. <i>Journal of Chemical Physics</i> , 2011, 135, 244704.	1.2	64
2790	Semiconductor nanostructure-based photovoltaic solar cells. <i>Nanoscale</i> , 2011, 3, 2430.	2.8	78
2791	Bulk and Surface Polarons in Photoexcited Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2223-2228.	2.1	232
2792	<i>In Situ</i> Prepared Transparent Polyaniline Electrode and Its Application in Bifacial Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2011, 5, 3795-3799.	7.3	383
2793	Coreâ€”shell MoO <sub>3</sub> â€”MoS <sub>2</sub> Nanowires for Hydrogen Evolution: A Functional Design for Electrocatalytic Materials. <i>Nano Letters</i> , 2011, 11, 4168-4175.	4.5	1,099
2794	Absorption Spectra and Excited State Energy Levels of the N719 Dye on TiO <sub>2</sub> in Dye-Sensitized Solar Cell Models. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8825-8831.	1.5	222



#	ARTICLE	IF	CITATIONS
2795	The potential of diatom nanobiotechnology for applications in solar cells, batteries, and electroluminescent devices. <i>Energy and Environmental Science</i> , 2011, 4, 3930.	15.6	176
2796	Organic Dyes Incorporating the Benzo[1,2- <i>b</i> :4,5- <i>b'</i> ]-dithiophene Moiety for Efficient Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2011, 13, 5424-5427.	2.4	48
2797	Simulating Dye-Sensitized TiO <sub>2</sub> Heterointerfaces in Explicit Solvent: Absorption Spectra, Energy Levels, and Dye Desorption. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 813-817.	2.1	98
2798	Energy from Photosystem II: Manganese Water Oxidation Catalysts. <i>RSC Energy and Environment Series</i> , 2011, , 249-272.	0.2	2
2799	Double Donor-Thiophene Dendron-Perylene Monoimide: Efficient Light-Harvesting Metal-Free Chromophore for Solid-State Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1744-1747.	1.7	18
2800	Synthesis of a Titanium-Containing Prussian-Blue Analogue with a Well-Defined Cube Structure and Its Thermal Conversion into a Nanoporous Titanium-Iron-Based Oxide. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2282-2286.	1.7	34
2801	An Insight into Artificial Leaves for Sustainable Energy Inspired by Natural Photosynthesis. <i>ChemCatChem</i> , 2011, 3, 513-528.	1.8	65
2802	Tailoring the Activity for Oxygen Evolution Electrocatalysis on Rutile TiO <sub>2</sub> (110) by Transition-Metal Substitution. <i>ChemCatChem</i> , 2011, 3, 1607-1611.	1.8	169
2803	Electrodeposition of Hierarchical ZnO Nanorod-Nanosheet Structures and Their Applications in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2358-2367.	4.0	158
2804	Electrophoretic deposition of reduced graphene-carbon nanotubes composite films as counter electrodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 14869.	6.7	151
2805	Effects of Self-Assembled Monolayers on Solid-State CdS Quantum Dot Sensitized Solar Cells. <i>ACS Nano</i> , 2011, 5, 1495-1504.	7.3	93
2806	Quantum dot-sensitized solar cells incorporating nanomaterials. <i>Chemical Communications</i> , 2011, 47, 9561.	2.2	242
2807	Theoretical Study of New Ruthenium-Based Dyes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3596-3603.	1.1	49
2808	Ruthenium(II)-bipyridyl with extended $\pi$ -system: Improved thermo-stable sensitizer for efficient and long-term durable dye sensitized solar cells. <i>Journal of Chemical Sciences</i> , 2011, 123, 555-565.	0.7	14
2809	Photoluminescence and photocatalytic activity of zinc tungstate powders. <i>Open Physics</i> , 2011, 9, 510-514.	0.8	4
2810	Synthesis and properties of TiO <sub>2</sub> -based nanomaterials. <i>Theoretical Foundations of Chemical Engineering</i> , 2011, 45, 731-738.	0.2	5
2811	Structure of porphyrin-fullerene dyad monolayer on the water surface and solid substrate. <i>Crystallography Reports</i> , 2011, 56, 157-163.	0.1	2
2812	Thermally stimulated transformations in brookite-containing TiO <sub>2</sub> nanopowders produced by the hydrolysis of TiCl <sub>4</sub> . <i>Technical Physics</i> , 2011, 56, 97-101.	0.2	5

#	ARTICLE	IF	CITATIONS
2813	ZnO/CdS Hierarchical Nanospheres for Photoelectrochemical Sensing of Cu <sup>2+</sup> . Journal of Physical Chemistry C, 2011, 115, 17958-17964.	1.5	162
2814	Highly efficient Cu(In,Ga)Se <sub>2</sub> solar cells grown on flexible polymer films. Nature Materials, 2011, 10, 857-861.	13.3	796
2815	Facile synthesis of open mesoporous carbon nanofibers with tailored nanostructure as a highly efficient counter electrode in CdSe quantum-dot-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 8742.	6.7	132
2816	Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals and graphene quantum dots for photovoltaics. Nanoscale, 2011, 3, 3040.	2.8	95
2817	Simulation and measurement of complete dye sensitised solar cells: including the influence of trapping, electrolyte, oxidised dyes and light intensity on steady state and transient device behaviour. Physical Chemistry Chemical Physics, 2011, 13, 5798.	1.3	115
2818	Cu <sub>2</sub> S Reduced Graphene Oxide Composite for High-Efficiency Quantum Dot Solar Cells. Overcoming the Redox Limitations of S <sub>2</sub> <sup>2-</sup> /S <sup>2-</sup> at the Counter Electrode. Journal of Physical Chemistry Letters, 2011, 2, 2453-2460.	2.1	439
2819	First-Principles Theory of Electrochemical Capacitance of Nanostructured Materials: Dipole-Assisted Subsurface Intercalation of Lithium in Pseudocapacitive TiO <sub>2</sub> Anatase Nanosheets. Journal of Physical Chemistry C, 2011, 115, 4909-4915.	1.5	56
2820	Graphene Nanoplatelet Cathode for Co(III)/(II) Mediated Dye-Sensitized Solar Cells. ACS Nano, 2011, 5, 9171-9178.	7.3	258
2821	Z-scheme photocatalyst systems for water splitting under visible light irradiation. MRS Bulletin, 2011, 36, 32-38.	1.7	183
2822	Facile Synthesis of Highly Photoactive Î±-Fe <sub>2</sub> O <sub>3</sub> -Based Films for Water Oxidation. Nano Letters, 2011, 11, 3503-3509.	4.5	623
2823	Activation Energies for the Rate-Limiting Step in Water Photooxidation by Nanostructured Î±-Fe <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> . Journal of the American Chemical Society, 2011, 133, 10134-10140.	6.6	247
2824	First-Principles Study of Photoinduced Water-Splitting on Fe <sub>2</sub> O <sub>3</sub> . Journal of Physical Chemistry C, 2011, 115, 12901-12907.	1.5	96
2825	Optically Transparent Cathode for Dye-Sensitized Solar Cells Based on Graphene Nanoplatelets. ACS Nano, 2011, 5, 165-172.	7.3	500
2826	Facile Preparation of Platelike Tungsten Oxide Thin Film Electrodes with High Photoelectrode Activity. ACS Applied Materials & Interfaces, 2011, 3, 4047-4052.	4.0	75
2827	Morphology-Tailored Synthesis of Tungsten Trioxide (Hydrate) Thin Films and Their Photocatalytic Properties. ACS Applied Materials & Interfaces, 2011, 3, 229-236.	4.0	163
2828	An Organometallic Future in Green and Energy Chemistry?. Organometallics, 2011, 30, 17-19.	1.1	151
2829	Plasmonic-metal nanostructures for efficient conversion of solar to chemical energy. Nature Materials, 2011, 10, 911-921.	13.3	4,163
2830	Highly Efficient Plasmon-Enhanced Dye-Sensitized Solar Cells through Metal@Oxide Core-Shell Nanostructure. ACS Nano, 2011, 5, 7108-7116.	7.3	386

#	ARTICLE	IF	CITATIONS
2831	Biomimetic strategies for solar energy conversion: a technical perspective. <i>Energy and Environmental Science</i> , 2011, 4, 3834.	15.6	69
2832	Surface Nanostructures in Photocatalysts for Visible-Light-Driven Water Splitting. <i>Topics in Current Chemistry</i> , 2011, 303, 95-119.	4.0	17
2833	Nanoparticles for hydrogen generation. <i>Journal of Materials Chemistry</i> , 2011, 21, 12173.	6.7	55
2834	Vapor treatment of nanocrystalline WO <sub>3</sub> photoanodes for enhanced photoelectrochemical performance in the decomposition of water. <i>Journal of Materials Chemistry</i> , 2011, 21, 19402.	6.7	37
2835	Synthesis of FeS <sub>2</sub> and Co-doped FeS <sub>2</sub> films with the aid of supercritical carbon dioxide and their photoelectrochemical properties. <i>RSC Advances</i> , 2011, 1, 255.	1.7	27
2836	Effect of calcination on the structure and catalytic activities of titanium incorporated SBA-15. <i>Journal of Materials Chemistry</i> , 2011, 21, 2255-2265.	6.7	52
2837	Grafting polymers to titania nanoparticles by radical polymerization initiated by diazonium salt. <i>Journal of Materials Science</i> , 2011, 46, 6332-6338.	1.7	40
2838	Photocatalytic mechanisms of modified titania under visible light. <i>Research on Chemical Intermediates</i> , 2011, 37, 91-102.	1.3	62
2839	Synthesis, characterization and photocatalytic properties of tungsten-doped hydrothermal TiO <sub>2</sub> . <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 43-50.	1.1	20
2840	Fabrication and performance of nanoporous TiO <sub>2</sub> /SnO <sub>2</sub> electrodes with a half hollow sphere structure for dye sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 58, 518-523.	1.1	15
2841	Pechini based titanium sol as a matrix in TiO <sub>2</sub> pastes for dye-sensitized solar cell application. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 245-251.	1.1	11
2842	Novel conductive characteristics of ITO:Ti films deposited by spin coating from colloidal precursor. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 532-538.	1.1	4
2843	Facile synthesis of titania/hyperbranched polyglycidol nanohybrids with controllable morphologies: from solid spheres, capsules to tubes. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2117-2128.	0.8	9
2844	Photosensitization of multiwalled carbon nanotube scaffolds with ZnO quantum dots for photovoltaic applications. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5311-5319.	0.8	6
2845	Colloidal nanocrystal ZnO- and TiO <sub>2</sub> -modified electrodes sensitized with chlorophyll a and carotenoids: a photoelectrochemical study. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6467-6481.	0.8	11
2846	Ternary luminescent lanthanide-centered hybrids with organically modified titania and polymer units. <i>Colloid and Polymer Science</i> , 2011, 289, 423-431.	1.0	18
2847	Morphology and photoluminescence study of titania nanoparticles. <i>Colloid and Polymer Science</i> , 2011, 289, 943-953.	1.0	25
2848	Molecular modeling of 4-methylphthalonitrile for dye sensitized solar cells using quantum chemical calculations. <i>Journal of Molecular Modeling</i> , 2011, 17, 49-58.	0.8	12

#	ARTICLE	IF	CITATIONS
2849	Morphological, electrochemical and photoelectrochemical characterization of nanotubular TiO <sub>2</sub> synthesized electrochemically from different electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2265-2275.	1.2	23
2850	Performance of dye-sensitized solar cells with various carbon nanotube counter electrodes. <i>Mikrochimica Acta</i> , 2011, 174, 73-79.	2.5	35
2851	Measurement of wurtzite ZnO/rutile TiO <sub>2</sub> heterojunction band offsets by x-ray photoelectron spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 1099-1103.	1.1	40
2852	Three-dimension direct writing TiO <sub>2</sub> crystalline patterns in Bi-free glass using femtosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 295-299.	1.1	3
2853	Computational studies of the interactions of I <sup>+</sup> and I <sub>3</sub> <sup>-</sup> with TiO <sub>2</sub> clusters: implications for dye-sensitized solar cells. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 199-208.	0.5	14
2854	Graphene-incorporated nanocrystalline TiO <sub>2</sub> films for CdS quantum dot-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2011, 650, 248-251.	1.9	132
2855	Photoelectrochemical sensing of glucose based on quantum dot and enzyme nanocomposites. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 167-173.	1.9	92
2856	Cooperative effect of La-doping and template on surface photoelectron characteristics of mesoporous nano-TiO <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 643-647.	1.9	15
2857	Novel agarose polymer electrolyte for quasi-solid state dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2011, 196, 2410-2415.	4.0	68
2858	Low band gap dyes based on 2-styryl-5-phenylazo-pyrrole: Synthesis and application for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 4152-4161.	4.0	77
2859	Performance enhancement of CdS-sensitized TiO <sub>2</sub> mesoporous electrode with two different sizes of CdS nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2011, 138, 235-238.	2.2	36
2860	Influence of photonic stop band effect on photoluminescence of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> inverse opal films. <i>Chemical Physics Letters</i> , 2011, 509, 33-36.	1.2	7
2861	Novel dyes based on naphthalimide moiety as electron acceptor for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2011, 90, 297-303.	2.0	34
2862	On the mechanism of enhanced photocatalytic activity of composite TiO <sub>2</sub> /carbon nanofilms. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 337-342.	10.8	24
2863	DSSC with a novel Pt counter electrodes using pulsed electroplating techniques. <i>Current Applied Physics</i> , 2011, 11, S147-S153.	1.1	51
2864	Photo-degradation of methylene blue by multi-walled carbon nanotubes/TiO <sub>2</sub> composites. <i>Powder Technology</i> , 2011, 207, 465-469.	2.1	85
2865	Synthesis of TiO <sub>2</sub> nanoparticles by premixed stagnation swirl flames. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1925-1932.	2.4	59
2866	Properties of nanocrystalline TiO <sub>2</sub> synthesized in premixed flames stabilized on a rotating surface. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1917-1924.	2.4	37

#	ARTICLE	IF	CITATIONS
2867	Bottom-up grown ZnO nanorods for an antireflective moth-eye structure on CuInGaSe <sub>2</sub> solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2650-2654.	3.0	55
2868	Influence of pore structure on ion diffusion property in porous TiO <sub>2</sub> coating and photovoltaic performance of dye-sensitized solar cells. <i>Surface and Coatings Technology</i> , 2011, 205, 3205-3210.	2.2	25
2869	High spectral response heteroleptic ruthenium (II) complexes as sensitizers for dye sensitized solar cells. <i>Journal of Chemical Sciences</i> , 2011, 123, 37-46.	0.7	24
2870	Synthesis and photoelectrochemical characterization of a high molar extinction coefficient heteroleptic ruthenium(II) complex. <i>Journal of Chemical Sciences</i> , 2011, 123, 371-378.	0.7	20
2871	Application of Poly (3, 4-ethylenedioxythiophene): polystyrenesulfonate counter electrode in polymer heterojunction dye-sensitized solar cells. <i>Frontiers of Optoelectronics in China</i> , 2011, 4, 369-377.	0.2	4
2872	Flexible solar cells based on PCBM/P3HT heterojunction. <i>Frontiers of Optoelectronics in China</i> , 2011, 4, 108-113.	0.2	6
2873	Electrolyte-dependent photovoltaic responses in dye-sensitized solar cells. <i>Frontiers of Optoelectronics in China</i> , 2011, 4, 45-52.	0.2	1
2874	Room temperature deposition of TiO <sub>2</sub> using nano particle deposition system (NPDS): Application to dye-sensitized solar cell (DSSC). <i>International Journal of Precision Engineering and Manufacturing</i> , 2011, 12, 749-752.	1.1	23
2875	Surface modification of hematite photoanode films with rhodium. <i>Rare Metals</i> , 2011, 30, 38-41.	3.6	6
2876	Enhancement in the photocatalytic and photoelectrochemical properties of visible-light driven BiVO <sub>4</sub> photocatalyst. <i>Rare Metals</i> , 2011, 30, 192-198.	3.6	15
2877	Geometries, electronic structures and vibrational spectral studies of 4-aminophthalonitrile using quantum chemical calculations for dye sensitized solar cells. <i>Indian Journal of Physics</i> , 2011, 85, 1477-1494.	0.9	11
2878	Hetero-nanostructure of silver nanoparticles on MO <sub>x</sub> (M = Mo, Ti and Si) and their applications. <i>Science China Chemistry</i> , 2011, 54, 865.	4.2	11
2879	Preparation of Gd <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> downconversion luminescent material and its application in dye-sensitized solar cells. <i>Science Bulletin</i> , 2011, 56, 3114-3118.	1.7	31
2880	Preparation and Performance of Ordered Porous TiO <sub>2</sub> Film Doped with Gd <sup>3+</sup> . <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 1319-1322.	1.2	3
2881	Key technological elements in dye-sensitized solar cells (DSC). <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1481-1494.	1.2	37
2882	Mesoporous nitrogen-doped TiO <sub>2</sub> sphere applied for quasi-solid-state dye-sensitized solar cell. <i>Nanoscale Research Letters</i> , 2011, 6, 606.	3.1	26
2883	Temperature-dependent grain growth and phase transformation in mixed anatase-rutile nanocrystalline TiO <sub>2</sub> films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1635-1640.	0.8	8
2884	Role of energy level alignment in solar cells sensitized with a metal-free organic dye: A combined experimental and theoretical approach. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2467-2477.	0.8	10

#	ARTICLE	IF	CITATIONS
2885	Morphology of Titanium Nanocluster Films Prepared by Gas Aggregation Cluster Source. Plasma Processes and Polymers, 2011, 8, 640-650.	1.6	41
2886	Physicochemical study of the anatase/electrolyte solution™ interface in suspension and closely packed particles of the solid. Surface and Interface Analysis, 2011, 43, 1074-1081.	0.8	1
2887	Tube-in-a-Tube TiO <sub>2</sub> Nanotubes with Porous Walls: Fabrication, Formation Mechanism, and Photocatalytic Properties. Small, 2011, 7, 445-449.	5.2	101
2888	A Facile Template-Free Approach for the Large-Scale Solid-Phase Synthesis of CdS Nanostructures and Their Excellent Photocatalytic Performance. Small, 2011, 7, 957-964.	5.2	99
2889	Vertically Aligned TiO <sub>2</sub> Nanotubes on Plastic Substrates for Flexible Solar Cells. Small, 2011, 7, 2437-2442.	5.2	25
2890	Characterization of Ir(ppy) <sub>3</sub> and [Ir(ppy) <sub>2</sub> bpy] <sup>+</sup> by infrared, Raman spectra and surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2011, 42, 332-338.	1.2	24
2891	Raman spectroscopy of sol-gel derived titanium oxide thin films. Journal of Raman Spectroscopy, 2011, 42, 1578-1582.	1.2	68
2892	Quasi-Solid-State Dye-Sensitized Solar Cells Using Nanocomposite Gel Polymer Electrolytes Based on Poly(propylene carbonate). Macromolecular Chemistry and Physics, 2011, 212, 2583-2588.	1.1	9
2893	Novel-Type Inorganic Foams from Pre ceramic Polymers with Embedded Titania Nanoparticles for Photocatalytic Applications. Advanced Engineering Materials, 2011, 13, 996-1001.	1.6	10
2894	Highly Interconnected Porous Electrodes for Dye-Sensitized Solar Cells Using Viruses as a Sacrificial Template. Advanced Functional Materials, 2011, 21, 1160-1167.	7.8	31
2895	A Thiophene-Based Anchoring Ligand and Its Heteroleptic Ru(II) Complex for Efficient Thin-Film Dye-Sensitized Solar Cells. Advanced Functional Materials, 2011, 21, 963-970.	7.8	53
2896	Nanostructured Tungsten Oxide Properties, Synthesis, and Applications. Advanced Functional Materials, 2011, 21, 2175-2196.	7.8	1,198
2897	Supported Metal Oxide Nanosystems for Hydrogen Photogeneration: Quo Vadis?. Advanced Functional Materials, 2011, 21, 2611-2623.	7.8	126
2898	Nanoparticle/Dye Interface Optimization in Dye-Sensitized Solar Cells. Advanced Functional Materials, 2011, 21, 3268-3274.	7.8	33
2899	Shape- and Size-Controlled Synthesis of Uniform Anatase TiO <sub>2</sub> Nanocuboids Enclosed by Active {100} and {001} Facets. Advanced Functional Materials, 2011, 21, 3554-3563.	7.8	232
2900	Photoelectric Cooperative Induced Wetting on Aligned Nanopore Arrays for Liquid Reprography. Advanced Functional Materials, 2011, 21, 4519-4526.	7.8	35
2901	Amplifying Charge-Transfer Characteristics of Graphene for Triiodide Reduction in Dye-Sensitized Solar Cells. Advanced Functional Materials, 2011, 21, 3729-3736.	7.8	181
2902	Enhanced Performance of I <sub>2</sub> -Free Solid-State Dye-Sensitized Solar Cells with Conductive Polymer up to 6.8%. Advanced Functional Materials, 2011, 21, 4633-4639.	7.8	76

#	ARTICLE	IF	CITATIONS
2903	Resolving Bulk and Grain Boundary Transport Properties of TiO <sub>2</sub> Thin Films Enabled by Laser-Induced Anisotropic Morphology. <i>Advanced Materials</i> , 2011, 23, 3266-3271.	11.1	5
2904	The Marriage of Terpyridines and Inorganic Nanoparticles: Synthetic Aspects, Characterization Techniques, and Potential Applications. <i>Advanced Materials</i> , 2011, 23, 5728-5748.	11.1	77
2905	Surface Plasmon Assisted Energy Conversion in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 415-421.	10.2	86
2906	A Quasi-Inverse Opal Layer Based on Highly Crystalline TiO <sub>2</sub> Nanoparticles: A New Light-Scattering Layer in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 546-550.	10.2	71
2907	Carbon Nanomaterials for Dye-Sensitized Solar Cell Applications: A Bright Future. <i>Advanced Energy Materials</i> , 2011, 1, 472-485.	10.2	196
2908	High Performance Organic Photovoltaic Cells Using Polymer-Hybridized ZnO Nanocrystals as a Cathode Interlayer. <i>Advanced Energy Materials</i> , 2011, 1, 690-698.	10.2	123
2909	Recent Progress in Dye-Sensitized Solar Cells Using Nanocrystallite Aggregates. <i>Advanced Energy Materials</i> , 2011, 1, 988-1001.	10.2	83
2910	Atomic Layer Deposition of CdS Quantum Dots for Solid-State Quantum Dot Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 1169-1175.	10.2	76
2914	Photovoltaic Performance and Characteristics of Dye-Sensitized Solar Cells Prepared with the N719 Thermal Degradation Products [Ru(LH) <sub>2</sub> (NCS)(4- <i>tert</i> -butylpyridine)][N(Bu) <sub>4</sub> ] and [Ru(LH) <sub>2</sub> (NCS)(1-methylbenzimidazole)][N(Bu) <sub>4</sub> ]. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2533-2539.	1.0	35
2915	Photoactive Europium Hybrids of $\beta$ -Diketone-Modified Polysilsesquioxane Bridge Linking Si-O-B(Ti)-O Xerogels. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 879-887.	1.0	16
2916	pH-Sensitive Bis(2,2':6''-terpyridine)ruthenium(II) Complexes – A DFT/TDDFT Investigation of Their Spectroscopic Properties. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1605-1613.	1.0	12
2917	Strategies for Optimizing the Performance of Cyclometalated Ruthenium Sensitizers for Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1806-1814.	1.0	84
2918	Photophysical and Electrochemical Properties of Thiophene-Based 2-Arylpyridines. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5587-5598.	1.2	16
2919	Bis-Donor-Bis-Acceptor Tribranched Organic Sensitizers for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6195-6205.	1.2	50
2920	Enhanced Photoactivity in Bilayer Films with Buried Rutile-Anatase Heterojunctions. <i>ChemPhysChem</i> , 2011, 12, 191-196.	1.0	23
2921	Extraordinarily Efficient Conduction in a Redox-Active Ionic Liquid. <i>ChemPhysChem</i> , 2011, 12, 145-149.	1.0	65
2922	Heterogeneous Photocatalytic Reactions of Sulfur Aromatic Compounds. <i>ChemPhysChem</i> , 2011, 12, 2870-2885.	1.0	30
2923	Tuning of Photocatalytic Hydrogen Production and Photoinduced Intramolecular Electron Transfer Rates by Regioselective Bridging Ligand Substitution. <i>ChemPhysChem</i> , 2011, 12, 2101-2109.	1.0	93

#	ARTICLE	IF	CITATIONS
2924	Solar Water Splitting: Progress Using Hematite ( $\text{Fe}_2\text{O}_3$ ) Photoelectrodes. ChemSusChem, 2011, 4, 432-449.	3.6	2,334
2925	Fine-Tuning of Triarylamine-Based Photosensitizers for Dye-Sensitized Solar Cells. ChemSusChem, 2011, 4, 731-736.	3.6	25
2926	Biotemplated Materials for Sustainable Energy and Environment: Current Status and Challenges. ChemSusChem, 2011, 4, 1344-1387.	3.6	157
2927	The intrinsically high pitting corrosion resistance of mechanically polished nitinol in simulated physiological solutions. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 99B, 1-13.	1.6	17
2928	Computational study on the reactions of $\text{H}_2\text{O}$ on $\text{TiO}_2$ anatase (101) and rutile (110) surfaces. Journal of Computational Chemistry, 2011, 32, 1065-1081.	1.5	64
2929	Adsorption and dissociation of $\text{NH}_3$ on clean and hydroxylated $\text{TiO}_2$ rutile (110) surfaces: A computational study. Journal of Computational Chemistry, 2011, 32, 1101-1112.	1.5	13
2930	Quasi-solid state dye-sensitized solar cells based on the cross-linked poly(ethylene glycol) electrolyte with tetraethoxysilane. Journal of Applied Polymer Science, 2011, 120, 1752-1757.	1.3	20
2931	Preparation and characterization of a microporous polymer electrolyte based on poly(vinylidene fluoride) / Overlooked Polymer Science, 2011, 121, 1566-1573.	1.3	7
2944	$\text{TiO}_2$ Nanotubes: Synthesis and Applications. Angewandte Chemie - International Edition, 2011, 50, 2904-2939.	7.2	2,752
2945	Water Splitting by Tungsten Oxide Prepared by Atomic Layer Deposition and Decorated with an Oxygen-Evolving Catalyst. Angewandte Chemie - International Edition, 2011, 50, 499-502.	7.2	285
2946	Single-Crystal-Like Titania Mesocages. Angewandte Chemie - International Edition, 2011, 50, 1105-1108.	7.2	94
2947	On the True Photoreactivity Order of {001}, {010}, and {101} Facets of Anatase $\text{TiO}_2$ Crystals. Angewandte Chemie - International Edition, 2011, 50, 2133-2137.	7.2	1,106
2948	Low-Cost Molybdenum Carbide and Tungsten Carbide Counter Electrodes for Dye-Sensitized Solar Cells. Angewandte Chemie - International Edition, 2011, 50, 3520-3524.	7.2	552
2949	Anatase $\text{TiO}_2$ Crystals with Exposed High-Index Facets. Angewandte Chemie - International Edition, 2011, 50, 3764-3768.	7.2	159
2950	Splitting Water with Cobalt. Angewandte Chemie - International Edition, 2011, 50, 7238-7266.	7.2	1,231
2951	Synthesis of Nanostructured Reduced Titanium Oxide: Crystal Structure Transformation Maintaining Nanomorphology. Angewandte Chemie - International Edition, 2011, 50, 7418-7421.	7.2	110
2952	Dye-Sensitized Solar Cells Based On Donor-Acceptor Conjugated Fluorescent Dyes with a Pyridine Ring as an Electron-Withdrawing Anchoring Group. Angewandte Chemie - International Edition, 2011, 50, 7429-7433.	7.2	233
2953	A Trisheteroleptic Cyclometalated $\text{Ru}^{\text{II}}$ Sensitizer that Enables High Power Output in a Dye-Sensitized Solar Cell. Angewandte Chemie - International Edition, 2011, 50, 10682-10685.	7.2	127



#	ARTICLE	IF	CITATIONS
2954	Hierarchically Assembled ZnO Nanocrystallites for High-Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12321-12325.	7.2	223
2955	Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11739-11742.	7.2	410
2956	Pyrolytic Carbon from an Aromatic Precursor and Its Application as a Counter Electrode in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2011, 17, 1358-1364.	1.7	13
2957	Facile Fabrication of Anatase TiO <sub>2</sub> Microspheres on Solid Substrates and Surface Crystal Facet Transformation from {001} to {101}. <i>Chemistry - A European Journal</i> , 2011, 17, 5949-5957.	1.7	70
2958	Hierarchical Structures of Single-Crystalline Anatase TiO <sub>2</sub> Nanosheets Dominated by {001} Facets. <i>Chemistry - A European Journal</i> , 2011, 17, 1423-1427.	1.7	143
2959	Layered TiO <sub>2</sub> Composed of Anatase Nanosheets with Exposed {001} Facets: Facile Synthesis and Enhanced Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2011, 17, 5499-5502.	1.7	51
2960	Controllable Nanocarving of Anatase TiO <sub>2</sub> Single Crystals with Reactive {001} Facets. <i>Chemistry - A European Journal</i> , 2011, 17, 6615-6619.	1.7	36
2961	Heteroleptic Ruthenium Sensitizers That Contain an Ancillary Bipyridine Ligand Tethered with Hydrocarbon Chains for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2011, 17, 6781-6788.	1.7	43
2962	Processing Nanomaterials in Molten Salts: Partially Electrometallized TiO <sub>2</sub> as Pt Support for Enhanced Catalytic Oxidation of CO and CH <sub>3</sub> OH. <i>Chemistry - A European Journal</i> , 2011, 17, 8562-8567.	1.7	6
2963	A Desirable Hole-Conducting Coadsorbent for Highly Efficient Dye-Sensitized Solar Cells through an Organic Redox Cascade Strategy. <i>Chemistry - A European Journal</i> , 2011, 17, 11115-11121.	1.7	85
2964	Ag <sub>2</sub> O as a New Visible-Light Photocatalyst: Self-Stability and High Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2011, 17, 7777-7780.	1.7	423
2965	Amine- and Sulfonamide-Promoted Wittig Olefination Reactions in Water. <i>Chemistry - A European Journal</i> , 2011, 17, 8794-8798.	1.7	21
2966	A Family of Visible-Light Responsive Photocatalysts Obtained by Dispersing CrO <sub>6</sub> Octahedra into a Hydrotalcite Matrix. <i>Chemistry - A European Journal</i> , 2011, 17, 13175-13181.	1.7	91
2967	Dye-Sensitized Solar Cells Based on Donor-Acceptor Fluorescent Dyes with a Pyridine Ring as an Electron-Withdrawing Injecting Anchoring Group. <i>Chemistry - A European Journal</i> , 2011, 17, 14837-14843.	1.7	126
2968	Proton-Conducting Composite Membranes for Future Perspective Applications in Fuel Cells, Desalination Facilities and Photocatalysis. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 2177-2187.	0.4	3
2969	Photoelectrochemical properties of hierarchical nanocomposite structure: Carbon nanofibers/TiO <sub>2</sub> /ZnO thin films. <i>Catalysis Today</i> , 2011, 161, 8-14.	2.2	27
2970	The synthesis of hierarchical Zn-Ti layered double hydroxide for efficient visible-light photocatalysis. <i>Chemical Engineering Journal</i> , 2011, 168, 519-524.	6.6	267
2971	A novel charge-driven self-assembly method to prepare visible-light sensitive TiO <sub>2</sub> /activated carbon composites for dissolved organic compound removal. <i>Chemical Engineering Journal</i> , 2011, 168, 485-492.	6.6	23

#	ARTICLE	IF	CITATIONS
2972	Titanium oxide prepared by polymer gel assisted combustion method for dye-sensitized solar cell. <i>Current Applied Physics</i> , 2011, 11, S127-S130.	1.1	7
2973	Synthesis of a grafted cellulose gel electrolyte in an ionic liquid ([Bmim]I) for dye-sensitized solar cells. <i>Carbohydrate Polymers</i> , 2011, 86, 1216-1220.	5.1	43
2974	Inhibition and exaltation of emission in layer-controlled colloidal photonic architectures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 373, 1-5.	2.3	8
2975	Synthesis of TiO <sub>2</sub> submicro-rings and their application in dye-sensitized solar cell. <i>Applied Energy</i> , 2011, 88, 825-830.	5.1	29
2976	Synthesis of fluorinated TiO <sub>2</sub> hollow microspheres and their photocatalytic activity under visible light. <i>Applied Surface Science</i> , 2011, 257, 5879-5884.	3.1	24
2977	Derivative coupling constants of NK1, NK7 dyes and their relation to excited state dynamics in solar cell applications. <i>Chemical Physics Letters</i> , 2011, 501, 580-586.	1.2	21
2978	A model for recombination in Type II dye-sensitized solar cells: Catechol- $\pi$ -thiophene dyes. <i>Chemical Physics Letters</i> , 2011, 504, 230-235.	1.2	31
2979	Solid-state dye-sensitized solar cells fabricated with nanoporous TiO <sub>2</sub> and TPD dyes: Analysis of penetration behavior and I-V characteristics. <i>Chemical Physics Letters</i> , 2011, 510, 93-98.	1.2	16
2980	Observation of Significant enhancement in the efficiency of a DSSC by InN nanoparticles over TiO <sub>2</sub> -nanoparticle films. <i>Chemical Physics Letters</i> , 2011, 510, 126-130.	1.2	12
2981	Organic dyes incorporating low-band-gap chromophores based on $\pi$ -extended benzothiadiazole for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2011, 91, 192-198.	2.0	160
2982	Fabrication of p-type CaFe <sub>2</sub> O <sub>4</sub> nanofilms for photoelectrochemical hydrogen generation. <i>Electrochemistry Communications</i> , 2011, 13, 275-278.	2.3	71
2983	Dye-sensitized solar cells with quasi-solid-state cross-linked polymer electrolytes containing aluminum oxide. <i>Electrochimica Acta</i> , 2011, 56, 2031-2035.	2.6	51
2984	Solid-state dye-sensitized hierarchically structured ZnO solar cells. <i>Electrochimica Acta</i> , 2011, 56, 4176-4180.	2.6	25
2985	A novel CuI-based iodine-free gel electrolyte for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 5554-5560.	2.6	15
2986	Electrical properties of TiO <sub>2</sub> /SEO nanocomposites: From macro to nano. <i>Electrochimica Acta</i> , 2011, 56, 5582-5586.	2.6	3
2987	Electrochemical deposition of branched hierarchical ZnO nanowire arrays and its photoelectrochemical properties. <i>Electrochimica Acta</i> , 2011, 56, 5776-5782.	2.6	68
2988	Carbonaceous nanomaterials for the enhancement of TiO <sub>2</sub> photocatalysis. <i>Carbon</i> , 2011, 49, 741-772.	5.4	1,069
2989	A two-step approach towards solar-driven water splitting. <i>Electrochemistry Communications</i> , 2011, 13, 28-30.	2.3	18

#	ARTICLE	IF	CITATIONS
2990	CdS quantum dots sensitized single- and multi-layer porous ZnO nanosheets for quantum dots-sensitized solar cells. <i>Electrochemistry Communications</i> , 2011, 13, 331-334.	2.3	72
2991	Enhanced power conversion efficiency in dye-sensitized solar cells with TiO <sub>2</sub> aggregates/nanocrystallites mixed photoelectrodes. <i>Electrochimica Acta</i> , 2011, 56, 1960-1966.	2.6	63
2992	High-performance and low platinum loading electrodeposited-Pt counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 1941-1946.	2.6	44
2993	Titanium dioxide sols synthesized by hydrothermal methods using tetrabutyl titanate as starting material and the application in dye sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 4308-4314.	2.6	25
2994	Micro- and meso hierarchical porous carbon as low-cost counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 5459-5463.	2.6	37
2995	Enhancing photovoltaic performance of dye-sensitized solar cell by rare-earth doped oxide of Lu <sub>2</sub> O <sub>3</sub> :(Tm <sup>3+</sup> , Yb <sup>3+</sup> ). <i>Electrochimica Acta</i> , 2011, 56, 4980-4984.	2.6	68
2996	Evidence for enhancing charge collection efficiency with an alternative cost-effective binary ionic liquids electrolyte based dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 5605-5610.	2.6	14
2997	Synthesis of Zn-doped TiO <sub>2</sub> microspheres with enhanced photovoltaic performance and application for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 6517-6523.	2.6	95
2998	Doping saturation in dye-sensitized solar cells based on ZnO:Ga nanostructured photoanodes. <i>Electrochimica Acta</i> , 2011, 56, 6503-6509.	2.6	36
2999	Photoelectrochemical performances of indium-doped CdS <sub>0.2</sub> Se <sub>0.8</sub> thin film electrodes prepared by spray pyrolysis. <i>Electrochimica Acta</i> , 2011, 56, 6406-6410.	2.6	18
3000	The effect of compression on electron transport and recombination in plastic TiO <sub>2</sub> photoanodes. <i>Electrochimica Acta</i> , 2011, 56, 6401-6405.	2.6	17
3001	Improvement of the performance for quasi-solid-state supercapacitor by using PVA-KOH-KI polymer gel electrolyte. <i>Electrochimica Acta</i> , 2011, 56, 6881-6886.	2.6	278
3002	Synthesis, molecular structure and spectral analysis: DFT and TDDFT computational study of ruthenium complex of tetradentate N,N'-bis(benzimidazole-2-yl-ethyl)-ethylenediamine. <i>Journal of Molecular Structure</i> , 2011, 989, 70-79.	1.8	11
3003	Transient absorption spectroscopy of a heteroaromatic donor-acceptor-conjugated 2,2'-bipyridine dye. <i>Journal of Molecular Structure</i> , 2011, 993, 464-469.	1.8	0
3004	Enhancing the visible light absorption via combinational doping of TiO <sub>2</sub> with nitrogen (N) and chromium (Cr). <i>Journal of Molecular Structure</i> , 2011, 1001, 23-28.	1.8	15
3005	Fabrication and photocatalytic performance of a Zn <sub>x</sub> Cd <sub>1-x</sub> S solid solution prepared by sulfuration of a single layered double hydroxide precursor. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 147-156.	10.8	156
3006	Improvement in the methylene blue adsorption capacity and photocatalytic activity of H <sub>2</sub> -reduced rutile-TiO <sub>2</sub> caused by Ni(II)porphyrin preadsorption. <i>Applied Catalysis B: Environmental</i> , 2011, , .	10.8	1
3007	FT-IR study of the photocatalytic degradation of gaseous toluene over UV-irradiated TiO <sub>2</sub> microballs: enhanced performance by hydrothermal treatment in alkaline solution. <i>Applied Surface Science</i> , 2011, 257, 4709-4714.	3.1	32

#	ARTICLE	IF	CITATIONS
3008	Enhanced visible light photocatalytic properties of Fe-doped TiO <sub>2</sub> nanorod clusters and monodispersed nanoparticles. <i>Applied Surface Science</i> , 2011, 257, 8121-8126.	3.1	61
3009	Theoretical characterization of ruthenium complexes containing functionalized bithiophene ligands for dye-sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 1632-1639.	0.8	9
3010	Synthesis, structure and redox properties of new cobalt(II) and nickel(II) complexes with 6-ferrocenyl-2,2'-bipyridyl. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 2607-2610.	0.8	9
3011	Bubble-like CdSe nanoclusters sensitized TiO <sub>2</sub> nanotube arrays for improvement in solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 68-75.	2.0	39
3012	Effect of intraligand $\pi$ -delocalization on the photophysical properties of two new Ru(II) complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 100-107.	2.0	6
3013	A new class of organic sensitizers with fused planar triphenylamine for nanocrystalline dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 219, 122-131.	2.0	18
3014	Photochemical reaction fields with strong coupling between a photon and a molecule. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 221, 130-137.	2.0	19
3015	Balance between the physical diffusion and the exchange reaction on binary ionic liquid electrolyte for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 1645-1650.	4.0	24
3016	High efficiency flexible dye-sensitized solar cells by multiple electrophoretic depositions. <i>Journal of Power Sources</i> , 2011, 196, 3683-3687.	4.0	70
3017	Electrophoretic deposition of ZnO film and its compression for a plastic based flexible dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2011, 196, 4859-4864.	4.0	62
3018	Electronic band structures and photovoltaic properties of MWO <sub>4</sub> (M=Zn, Mg, Ca, Sr) compounds. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2103-2107.	1.4	68
3019	Photocatalytic destruction of gaseous toluene by porphyrin-sensitized TiO <sub>2</sub> thin films. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 470-479.	2.7	14
3020	Nanostructured photoelectrodes for dye-sensitized solar cells. <i>Nano Today</i> , 2011, 6, 91-109.	6.2	601
3021	The Frenkel exciton Hamiltonian for functionalized Ru(II)-bpy complexes. <i>Journal of Luminescence</i> , 2011, 131, 1739-1746.	1.5	12
3022	Facile synthesis and catalytic activity of MoS <sub>2</sub> /TiO <sub>2</sub> by a photodeposition-based technique and its oxidized derivative MoO <sub>3</sub> /TiO <sub>2</sub> with a unique photochromism. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 607-610.	5.0	105
3023	Quantitative characterization of hydroxyl radicals produced by various photocatalysts. <i>Journal of Colloid and Interface Science</i> , 2011, 357, 163-167.	5.0	592
3024	Electronic structures and absorption properties of three kinds of ruthenium dye sensitizers containing bipyridine-pyrazolate for solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1843-1848.	2.0	17
3025	The different types of ZnO materials on the performance of dye-sensitized solar cells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1746-1750.	1.3	14

#	ARTICLE	IF	CITATIONS
3026	Synthesis and characterization of cross-linkable ruthenium dye with ion coordinating property for dye-sensitized solar cells. <i>Polymer</i> , 2011, 52, 3318-3324.	1.8	13
3027	Effect of oxygen concentration and system geometry on the current-voltage relations during reactive sputter deposition of titanium dioxide thin films. <i>Vacuum</i> , 2011, 85, 1042-1046.	1.6	12
3028	Low cost chemical sensor device for supersensitive pentaerythritol tetranitrate (PETN) explosives detection based on titanium dioxide nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 286-291.	4.0	16
3029	Pyridinium molten salts as co-adsorbents in dye-sensitized solar cells. <i>Solar Energy</i> , 2011, 85, 174-179.	2.9	7
3030	Solar photovoltaic electricity: Current status and future prospects. <i>Solar Energy</i> , 2011, 85, 1580-1608.	2.9	810
3031	Phenomenological modeling of dye-sensitized solar cells under transient conditions. <i>Solar Energy</i> , 2011, 85, 781-793.	2.9	53
3032	Lead-sulphide quantum-dot sensitization of tin oxide based hybrid solar cells. <i>Solar Energy</i> , 2011, 85, 1283-1290.	2.9	39
3033	Colloidal quantum dot solar cells. <i>Solar Energy</i> , 2011, 85, 1264-1282.	2.9	246
3034	High-voltage (1.8V) tandem solar cell system using a GaAs/AlXGa(1-x)As graded solar cell and dye-sensitized solar cells with organic dyes having different absorption spectra. <i>Solar Energy</i> , 2011, 85, 1220-1225.	2.9	39
3035	Stable dye-sensitized solar cells based on organic chromophores and ionic liquid electrolyte. <i>Solar Energy</i> , 2011, 85, 1189-1194.	2.9	36
3036	Triphenylamine-phthalocyanine based sensitizer for sensitization of nanocrystalline TiO <sub>2</sub> films. <i>Solar Energy</i> , 2011, 85, 1204-1212.	2.9	33
3037	Enhanced DSSC performance with high surface area thin anatase TiO <sub>2</sub> nanoleaves. <i>Solar Energy</i> , 2011, 85, 1213-1219.	2.9	61
3038	Photovoltaic performance of solid-state solar cells based on ZnO nanosheets sensitized with low-cost metal-free organic dye. <i>Solar Energy</i> , 2011, 85, 1787-1793.	2.9	48
3039	Fabrication of dye-sensitized solar cells by transplanting highly ordered TiO <sub>2</sub> nanotube arrays. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 184-189.	3.0	112
3040	Method for fabricating the compact layer in dye-sensitized solar cells by titanium sputter deposition and acid-treatments. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 340-343.	3.0	33
3041	Surface-induced thermal decomposition of [Ru(dcbpyH) <sub>2</sub> -(CN) <sub>2</sub> ] on nanocrystalline TiO <sub>2</sub> surfaces: Temperature-dependent infrared spectroscopy and two-dimensional correlation analysis. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 326-331.	3.0	19
3042	Nanostructured hematite photoelectrochemical electrodes prepared by the low temperature thermal oxidation of iron. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1819-1825.	3.0	54
3043	An analytical study on electronic density of states and conductance of typical nanowires. <i>Solid State Communications</i> , 2011, 151, 928-932.	0.9	16

#	ARTICLE	IF	CITATIONS
3044	Synthesis and applications of novel acceptor–donor–acceptor organic dyes with dithienopyrrole- and fluorene-cores for dye-sensitized solar cells. <i>Tetrahedron</i> , 2011, 67, 303-311.	1.0	75
3045	Thiophene-fused coplanar sensitizer for dye-sensitized solar cells. <i>Tetrahedron Letters</i> , 2011, 52, 2764-2766.	0.7	16
3046	Optimization of the cutting process of multi-wall carbon nanotubes for enhanced dye-sensitized solar cells. <i>Thin Solid Films</i> , 2011, 519, 2273-2279.	0.8	41
3047	Influence of coil current modulation on TiO <sub>2</sub> nanoparticle synthesis using pulse-modulated induction thermal plasmas. <i>Thin Solid Films</i> , 2011, 519, 7100-7105.	0.8	20
3048	Phase separation in Ga and N co-incorporated ZnO films and its effects on photo-response in photoelectrochemical water splitting. <i>Thin Solid Films</i> , 2011, 519, 5983-5987.	0.8	26
3049	Controlled synthesis of ZnO branched nanorod arrays by hierarchical solution growth and application in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2011, 519, 6307-6312.	0.8	15
3050	Fabrication and Utilization of Titania Nanofibers from Natural Leucoxene Mineral in Photovoltaic Applications. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 01BJ16.	0.8	11
3051	Effect of Porous Counter Electrode with Highly Conductive Layer on Dye-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 082303.	0.8	2
3052	Modification and control of the spontaneous emission from an M-type atom embedded in an anisotropic photonic crystal. <i>Physica Scripta</i> , 2011, 83, 055405.	1.2	1
3053	Enhanced conversion efficiency in dye-sensitized solar cells with nanocomposite photoanodes. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 255103.	1.3	6
3054	Electronic structure at the interfaces of vertically aligned zinc oxide nanowires and sensitizing layers in photochemical solar cells. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 325108.	1.3	12
3055	The Science of Green Chemistry and its Role in Chemicals Policy and Educational Reform. <i>New Solutions</i> , 2011, 21, 499-517.	0.6	15
3056	Communication: Uncovering molecule-TiO <sub>2</sub> interactions with nonlinear spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 081101.	1.2	12
3057	Charge transfer dynamics of model charge transfer centers of a multicenter water splitting dye complex on rutile TiO <sub>2</sub> (110). <i>Journal of Chemical Physics</i> , 2011, 134, 054705.	1.2	30
3058	Characterization of Cobalt-Based Catalyst Supported on TiO <sub>2</sub> ; Nanofibers for Fischer-Tropsch Synthesis. <i>Advanced Materials Research</i> , 0, 418-420, 46-49.	0.3	0
3059	Architecture of PTCDA molecular structures on a reconstructed InSb(001) surface. <i>Physical Review B</i> , 2011, 83, .	1.1	7
3060	InP/ZnS core-shell quantum dots sensitized ZnO nanowires for photovoltaic devices. , 2011, , .		2
3061	A single centre water splitting dye complex adsorbed on rutile TiO <sub>2</sub> (110): Photoemission, x-ray absorption, and optical spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 114703.	1.2	11

#	ARTICLE	IF	CITATIONS
3062	Electrospun metal oxides nanostructures for energy related devices. , 2011, , .		1
3063	Mesoporous Electrodeposited-CoS Film as a Counter Electrode Catalyst in Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2011, 159, D65-D71.	1.3	64
3064	An ultraviolet photo-detector based on TiO <sub>2</sub> /water solid-liquid heterojunction. Applied Physics Letters, 2011, 99, .	1.5	74
3066	Tailoring Electronic and Optical Properties of TiO <sub>2</sub> : Nanostructuring, Doping and Molecular-Oxide Interactions. 2011, 301-329. CO $\langle \text{mml:math xmlns:mml=} \text{http://www.w3.org/1998/Math/MathML} \rangle \text{display=}$ "inline"><math>\langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{dissociation activated through electron attachment on the reduced rutile TiO} \langle \text{mml:math xmlns:mml=} \text{http://www.w3.org/1998/Math/MathML} \rangle \text{display=}"inline"><math>\langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle (110) \text{-} 1 \langle \text{mml:math} \rangle \text{xmlns:mml=} \text{http://www.w3.org/1998}		2
3067	dissociation activated through electron attachment on the reduced rutile TiO <sub>2</sub> (110)-1 Mott insulators: An early selection criterion for materials for photoelectrochemical H <sub>2</sub> production. Journal of Renewable and Sustainable Energy, 2011, 3, .	1.1	68
3068	Mott insulators: An early selection criterion for materials for photoelectrochemical H <sub>2</sub> production. Journal of Renewable and Sustainable Energy, 2011, 3, .	0.8	27
3069	Photovoltage improvements and recombination suppression by montmorillonite addition to PEO gel electrolyte for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 2417-2421.	1.3	27
3070	Structure of the Rutile TiO <sub>2</sub> (110) surface. Applied Physics Letters, 2011, 99, 166102.	1.7	10
3071	Application of Titanium Dioxide Nanorods in DSC Using Hydrothermal Method. Advanced Materials Research, 0, 222, 24-27.	0.3	6
3072	Dye-sensitized solar cells with modified TiO <sub>2</sub> surface chemical states: The role of Ti <sup>3+</sup> . Applied Physics Letters, 2011, 99, .	1.5	67
3073	Effect of oxygen deficiency on the photoresponse and reactivity of mixed phase titania thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, 031508.	0.9	18
3074	Layered mesoporous nanostructures for enhanced light harvesting in dye-sensitized solar cells. Journal of Renewable and Sustainable Energy, 2011, 3, 043106.	0.8	8
3075	Preparation of Tris(8-Hydroxyquinoline-5-Sulfonic Acid) Iron(III) Complex and Photocatalytic Property of Surface Modified TiO <sub>2</sub> . Advanced Materials Research, 0, 399-401, 1481-1486.	0.3	1
3076	TiO <sub>2</sub> nanorod arrays functionalized with In <sub>2</sub> S <sub>3</sub> shell layer by a low-cost route for solar energy conversion. Nanotechnology, 2011, 22, 305601.	1.3	29
3077	Research Highlights from the U.S. Department of Energy's Working Group on Photoelectrochemical Hydrogen Production. Materials Research Society Symposia Proceedings, 2011, 1326, 1.	0.1	1
3078	Nanostructured Mesoporous Thick Films of Titania for Dye-Sensitized Solar Cells. Applied Mechanics and Materials, 0, 110-116, 540-546.	0.2	0
3079	The Fabrication of Highly Ordered TiO <sub>2</sub> Nanotube Arrays and their Application in Dye-Sensitized Solar Cells. Advanced Materials Research, 0, 217-218, 1553-1558.	0.3	3
3080	Preparation of TiO <sub>2</sub> Nanopowders by Non-Hydrolytic Sol-Gel and Solvothermal Synthesis. Applied Mechanics and Materials, 0, 110-116, 1934-1939.	0.2	1

#	ARTICLE	IF	CITATIONS
3081	Strong room-temperature chemiresistive effect of TiO <sub>2</sub> nanowires to nitro-aromatic compounds. Proceedings of SPIE, 2011, , .	0.8	0
3082	Conversion of Carbon Dioxide to Methanol Using Solar Energy - A Brief Review. Materials Sciences and Applications, 2011, 02, 1407-1415.	0.3	21
3083	HIGHLY CATALYTIC ACTIVE NANOSTRUCTURED Pt ELECTRODES FOR DYE-SENSITIZED SOLAR CELLS PREPARED BY LOW TEMPERATURE ELECTRODEPOSITION. Functional Materials Letters, 2011, 04, 7-11.	0.7	8
3084	Characterization of Dye-Sensitized Solar Cell with Different Nanoparticle sizes. Materials Research Society Symposia Proceedings, 2011, 1322, 133.	0.1	0
3085	Electrical and photoelectrical measurements on ZnO-Nanowires coated with PEDOT:PSS for Dye-Sensitized Solar Cells. Materials Research Society Symposia Proceedings, 2011, 1303, 169.	0.1	0
3086	Fabrication of Photoelectrochemical Cell Using Highly Compact Vertical Array ZnO Nanorod. Advanced Materials Research, 2011, 364, 293-297.	0.3	4
3087	The influence of ionic liquid and plastic crystal electrolytes on the photovoltaic characteristics of dye-sensitised solar cells. International Reviews in Physical Chemistry, 2011, 30, 371-407.	0.9	23
3088	Dye-Sensitized Solar Cell with Photoanode Made with Polystyrene-Ball-Embedded TiO <sub>2</sub> Pastes. Japanese Journal of Applied Physics, 2011, 50, 06GF09.	0.8	1
3089	The Dye Sensitized Solar Cell Stability and Performance Study Using Different Electrolytes. Materials Research Society Symposia Proceedings, 2011, 1322, 119.	0.1	2
3090	Effect of TiCl <sub>4</sub> Concentration and Acidity on Size and Phase of TiO <sub>2</sub> Nanopowders Prepared by Non-Hydrolytic Sol-Gel Method. Advanced Materials Research, 2011, 412, 32-35.	0.3	0
3091	Dye-Sensitized Solar Cells Based on a Natural Low Cost Halochromic Sensitizer. Materials Research Society Symposia Proceedings, 2011, 1286, 33.	0.1	0
3092	TiO <sub>2</sub> Composites for Efficient Poly(3-thiophene acetic acid) Sensitized Solar Cells. Journal of the Electrochemical Society, 2011, 158, B106.	1.3	7
3093	Dye-Sensitized Nanocrystalline ZnO Solar Cells Based on Ruthenium(II) Phendione Complexes. International Journal of Photoenergy, 2011, 2011, 1-10.	1.4	14
3094	Vibrational Spectroscopic Imaging of N719-TiO <sub>2</sub> Films in the High Wavenumber Region Coupled to EIS Analysis. Journal of the Electrochemical Society, 2011, 158, H708.	1.3	10
3095	Titanium Dioxide Nanotubes Decorated with Nanoparticles for Dye Sensitized Solar Cells. Materials Research Society Symposia Proceedings, 2011, 1303, 81.	0.1	0
3096	Synthesis of Rutile-Type TiO <sub>2</sub> -SnO <sub>2</sub> Solid Solution Nanoparticles by "Forced Co-Hydrolysis" under Hydrothermal Conditions. IOP Conference Series: Materials Science and Engineering, 2011, 18, 062015.	0.3	4
3097	5,5'-Bis[(2,2,2-trifluoroethoxy)methyl]-2,2'-bipyridine. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o355-o356.	0.2	7
3098	Fabricate Dye-Sensitized Solar Cell with Electrospinning. Advanced Materials Research, 0, 335-336, 1117-1120.	0.3	0



#	ARTICLE	IF	CITATIONS
3099	Nanoarchitectonics of a Au nanoprism array on WO <sub>3</sub> film for synergistic optoelectronic response. Science and Technology of Advanced Materials, 2011, 12, 044604.	2.8	34
3100	Influence of point defects on the performance of InVO <sub>4</sub> photoanodes. Journal of Photonics for Energy, 2011, 1, 016001.	0.8	12
3101	Performance comparison of dye-sensitized solar cells with different ZnO photoanodes. Semiconductor Science and Technology, 2011, 26, 105001.	1.0	13
3102	Influence of Polymer Concentration on Polysaccharide Electrolyte for Quasi-Solid-State Dye-Sensitized Solar Cell. Materials Science Forum, 2011, 685, 76-81.	0.3	6
3103	Interfacial charge transfer dynamics in TiO <sub>2</sub> -sensitizer-Ru 4 POM photocatalytic systems for water oxidation. , 2011, , .		5
3104	Gelation of Ionic Liquid-Based Electrolyte with Ordered Mesoporous Silica Particles for Quasi-Solid-State Dye-Sensitized Solar Cells. Materials Science Forum, 0, 685, 55-59.	0.3	0
3105	Synthesis and Dye-sensitized Solar Cell Application of Polyolefinic Aromatic Molecules with Pyrene as Surface Group. Australian Journal of Chemistry, 2011, 64, 951.	0.5	2
3106	Effect of 4- <i>tert</i> -Butylpyridine on the Quasi-Fermi Level of Dye-Sensitized TiO <sub>2</sub> Films. Applied Physics Express, 2011, 4, 042301.	1.1	28
3107	Synthesis and Characterization of Triazolium Iodide Ionic Liquid Electrolyte for Dye Sensitized Solar Cells. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1022-1026.	1.2	7
3108	Metal oxide nanomaterials for solar hydrogen generation from photoelectrochemical water splitting. MRS Bulletin, 2011, 36, 48-55.	1.7	113
3110	Characterization of interfacial charge transport and recombination by impedance spectroscopy on SiO <sub>2</sub> coated TiO <sub>2</sub> based dye sensitized solar cells. , 2011, , .		1
3111	Solvothermal synthesis of a highly branched Ta-doped TiO <sub>2</sub> . Journal of Materials Research, 2011, 26, 2653-2659.	1.2	11
3112	A new recognition concept using dye sensitized solar cell configuration. Chemical Communications, 2011, 47, 985-987.	2.2	11
3113	Multidimensional treatment of stochastic solvent dynamics in photoinduced proton-coupled electron transfer processes: Sequential, concerted, and complex branching mechanisms. Journal of Chemical Physics, 2011, 135, 144115.	1.2	29
3114	Improvement of Photoelectrochemical Properties by Surface Modification with Iron Oxide on p-Type Si Electrodes for Hydrogen Evolution from Water. Japanese Journal of Applied Physics, 2011, 50, 085702.	0.8	1
3115	Mesoporous Titania Nanocrystals by Hydrothermal Template Growth. Journal of Nanomaterials, 2011, 2011, 1-9.	1.5	4
3116	Design, synthesis, and characterization of novel nanowire structures for photovoltaics and intracellular probes. Pure and Applied Chemistry, 2011, 83, 2153-2169.	0.9	41
3117	Efficiency Improvement of Dye-Sensitized Solar Cell with Ultraviolet and Hydrogen Chloride Treatments. Journal of the Electrochemical Society, 2011, 158, K136.	1.3	5

#	ARTICLE	IF	CITATIONS
3118	Theoretical Insight into the Spectral Characteristics of Fe(II)-Based Complexes for Dye-Sensitized Solar Cells—Part I: Polypyridyl Ancillary Ligands. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-11.	1.4	5
3119	New Microporous Polymer Electrolyte Based on Polysiloxane Grafted with Imidazolium Iodide Moieties for DSSC. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-9.	1.4	6
3120	Geometrical, electronic structure, nonlinear optical and spectroscopic investigations of 4-(phenylthio)phthalonitrile dye sensitizer for solar cells using quantum chemical calculations. <i>European Journal of Chemistry</i> , 2011, 2, 206-213.	0.3	12
3121	Characterization of Synthetic Ni(II)-Xylenol Complex as a Photosensitizer for Wide-Band Gap ZnO Semiconductor Electrodes. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-9.	1.4	7
3122	Surface X-Ray Diffraction Results on the III-V Droplet Heteroepitaxy Growth Process for Quantum Dots: Recent Understanding and Open Questions. <i>Sensors</i> , 2011, 11, 10624-10637.	2.1	4
3123	Polymer-Based Solar Cells: State-of-the-Art Principles for the Design of Active Layer Components. <i>Green</i> , 2011, 1, .	0.4	50
3124	Metal-Free Counter Electrode for Efficient Dye-Sensitized Solar Cells through High Surface Area and Large Porous Carbon. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-4.	1.4	12
3125	Influence of Electrolyte Refreshing on the Photoelectrochemical Performance of Fiber-Shaped Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-8.	1.4	0
3126	Graftfast&lt;sup>g&t;Â©&lt;/sup>: Towards the Control of Surface Properties of any Type of Materials by the Grafting of Polymers. <i>Advanced Materials Research</i> , 0, 445, 797-802.	0.3	3
3127	Annealing Effect on Photovoltaic Performance of CdSe Quantum-Dots-Sensitized TiO <sub>2</sub> Nanorod Solar Cells. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	1.5	10
3128	Effect of Deoxycholic Acid on the Performance of Liquid Electrolyte Dye-Sensitized Solar Cells Using a Perylene Monoimide Derivative. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-7.	1.4	14
3129	Layer-by-Layer CdS-ModifiedTiO <sub>2</sub> Film Electrodes for Enhancing the Absorption and Energy Conversion Efficiency of Solar Cells. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-5.	1.4	2
3130	Enhancement of Electron Transfer Efficiency in Solar Cells Based on PbS QD/N719 Dye Cosensitizers. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-5.	1.5	4
3131	Effect of Polymeric p-Type Semiconductor on Photovoltaic Properties in Dye-Sensitized Solar Cell. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 567, 1-8.	0.4	2
3132	Facile solvothermal synthesis of single-crystalline anatase nanorods for efficient dye-sensitized solar cells. <i>Pure and Applied Chemistry</i> , 2012, 85, 417-425.	0.9	3
3133	Research and Characterization of an Absorber Layer Material â€” Cu(In,Ga)Se&lt;sub>2&lt;/sub> Sputtered on Polyimide Substrate in Material Engineering. <i>Advanced Materials Research</i> , 0, 583, 370-373.	0.3	0
3134	Ruthenium Sensitizers and Their Applications in Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-21.	1.4	111
3135	Enhanced Visible Light Photocatalytic Activity of Mesoporous Anatase $\text{TiO}_2$ with Nitrogen and Chlorine. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-6.		

#	ARTICLE	IF	CITATIONS
3136	Photoelectrochemical Performance of Smooth TiO <sub>2</sub> Nanotube Arrays: Effect of Anodization Temperature and Cleaning Methods. International Journal of Photoenergy, 2012, 2012, 1-11.	1.4	41
3137	Light scattering TiO <sub>2</sub> particles surface-modified by Al <sub>2</sub> O <sub>3</sub> coating in a dye-sensitized solar cell. Physica Scripta, 2012, 85, 025801.	1.2	10
3138	Application of Titanium Dioxide (TiO <sub>2</sub> ) Based Photocatalytic Nanomaterials in Solar and Hydrogen Energy: A Short Review. Materials Science Forum, 0, 712, 25-47.	0.3	7
3139	ZnO/ZnSe Type II Core-Shell Nanowire Array Solar Cell. Materials Research Society Symposia Proceedings, 2012, 1396, .	0.1	0
3140	Addressing Bottlenecks in Dye-sensitized Solar Cell Manufacture Using Rapid Near-infrared Heat Treatments. Materials Research Society Symposia Proceedings, 2012, 1447, 78.	0.1	2
3141	Photo-Electrochemical Synthesis of Silver-Oxide Clathrate Ag <sub>7</sub> O <sub>8</sub> NO <sub>3</sub> on SrTiO <sub>3</sub> . Electrochemical and Solid-State Letters, 2012, 15, E19.	2.2	4
3142	Dependence of photoelectrochemical performance on TiO <sub>2</sub> nanorod length. Materials Research Society Symposia Proceedings, 2012, 1512, 1.	0.1	0
3143	Influence of TiCl <sub>4</sub> Post-Treatment on TiO <sub>2</sub> Nanotube Arrays for Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2012, 567, 19-27.	0.4	4
3144	Spatial and spectral distributions of emission from dye-doped photonic crystals in reflection and transmission geometries. Journal of Nanophotonics, 2012, 6, 063526.	0.4	13
3145	Dye Sensitized Solar Cells Based on ZnO Nanorod/TiO <sub>2</sub> Nanoparticle Composite Films. Materials Science Forum, 0, 724, 397-403.	0.3	3
3146	Semiconducting organic polymers as hole-transport layer in solid-state dye sensitized solar cells: comprehensive insights from femtosecond transient spectroscopy and device optimization. , 2012, , .		0
3147	Common Nano-Materials and Their Use in Real World Applications. Science Progress, 2012, 95, 1-22.	1.0	107
3148	Computational Investigations on Organic Sensitizers for Dye-Sensitized Solar Cell. Current Organic Synthesis, 2012, 9, 215-232.	0.7	20
3149	Thermal conductivity and secondary porosity of single anatase TiO <sub>2</sub> nanowire. Nanotechnology, 2012, 23, 185701.	1.3	41
3150	Improvement on the Long-Term Stability of Dye-Sensitized Solar Module by Structural Alternation. Japanese Journal of Applied Physics, 2012, 51, 10NE21.	0.8	2
3151	Electron stimulated desorption, DIET, and photochemistry at surfaces: A personal recollection. Journal of Chemical Physics, 2012, 137, 091701.	1.2	3
3152	Helium mediated deposition: Modeling the He <sup>+</sup> TiO <sub>2</sub> (110)-(1 $\bar{1}$ –1) interaction potential and application to the collision of a helium droplet from density functional calculations. Journal of Chemical Physics, 2012, 136, 124703.	1.2	31
3153	Review on Transforming TiO <sub>2</sub> into a Visible-Light- Responsive Catalyst for Water and Air Purification. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
3154	Plasmonic core-shell metal-organic nanoparticles enhanced dye-sensitized solar cells. Optics Express, 2012, 20, A898.	1.7	36
3155	Photovoltaic effect of light carrying orbital angular momentum on a semiconducting stripe. Optics Express, 2012, 20, 27792.	1.7	15
3156	Photocatalytic and photoelectro-chemical investigations of Fe/ Sn/ Nb containing oxides for energy application: Comparative study. Journal of Physics: Conference Series, 2012, 365, 012006.	0.3	0
3157	Visible light photocatalysis of single-walled (Zn <sub>4</sub> /6Cu <sub>2</sub> /6O) <sub>3</sub> /(Zn <sub>5</sub> /6Cu <sub>1</sub> /6O) <sub>3</sub> superlattice nanotube for redox reaction of water calculated by generalized gradient approximations with the Hubbard U model. Journal of Applied Physics, 2012, 111, 034318.	1.1	4
3158	<i>In situ</i> x-ray studies of oxygen surface exchange behavior in thin film La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> . Applied Physics Letters, 2012, 101, 051603.	1.5	20
3159	Photoelectrochemical properties of CdS sensitized ZnO nanorod arrays: Effect of nanorod length. Journal of Applied Physics, 2012, 112, .	1.1	52
3160	Critical dimensions of highly lattice mismatched semiconductor nanowires grown in strain-releasing configurations. Applied Physics Letters, 2012, 100, .	1.5	9
3161	Tin dioxide as an alternative window layer for improving the damp-heat stability of copper indium gallium diselenide solar cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	0.9	4
3162	Electromechanical properties of freestanding graphene functionalized with tin oxide (SnO <sub>2</sub> ) nanoparticles. Applied Physics Letters, 2012, 101, 061601.	1.5	4
3163	Structural, electronic and optical properties of titania nanotubes. Advances in Applied Ceramics, 2012, 111, 72-93.	0.6	8
3164	Low-temperature ozone exposure technique to modulate the stoichiometry of WO <sub>x</sub> nanorods and optimize the electrochromic performance. Nanotechnology, 2012, 23, 255601.	1.3	33
3165	Localized interaction of single porphyrin molecules with oxygen vacancies on TiO <sub>2</sub> (110). Journal of Chemical Physics, 2012, 137, 234707.	1.2	20
3166	Orientation-dependent local density of states in three-dimensional photonic crystals. Physical Review A, 2012, 85, .	1.0	13
3167	Effect of substrate strain on critical dimensions of highly lattice mismatched defect-free nanorods. Journal of Applied Physics, 2012, 111, 054907.	1.1	7
3168	The Differences in Optical Characteristics of TiO <sub>2</sub> and TiO <sub>2</sub> /AAO Nanotube Arrays Fabricated by Atomic Layer Deposition. Journal of the Electrochemical Society, 2012, 159, K136-K140.	1.3	14
3169	Range-separated hybrid exchange-correlation functional analyses of anatase TiO <sub>2</sub> doped with W, N, S, W/N, or W/S. Physical Review B, 2012, 86, .	1.1	50
3170	MagnÃ©li-like phases in epitaxial anatase TiO <sub>2</sub> thin films. Physical Review B, 2012, 86, .	1.1	26
3171	First principle study of the electronic structure of hafnium-doped anatase TiO <sub>2</sub> . Journal of Semiconductors, 2012, 33, 012002.	2.0	10

#	ARTICLE	IF	CITATIONS
3172	Atomic layer deposition for electrochemical energy generation and storage systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	0.9	59
3173	Effects of Electrospun TiO <sub>2</sub> Nanowires Mixed in Nanoparticle-Based Electrode for Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 044106.	0.8	4
3174	Influence of hydrogen addition to an Ar plasma on the structural properties of TiO <sub>2</sub> thin films deposited by RF sputtering. Journal Physics D: Applied Physics, 2012, 45, 345302.	1.3	57
3175	Experimenting with cameraless photography using turmeric and borax: an introduction to photophysics. Physics Education, 2012, 47, 423-428.	0.3	1
3176	Band engineering of type-II ZnO/ZnSe heterostructures for solar cell applications. Journal of Materials Research, 2012, 27, 730-733.	1.2	9
3177	IODINE/IODIDE-FREE AND POLYMER HETEROJUNCTION-SENSITIZED HYBRID SOLAR CELL. Functional Materials Letters, 2012, 05, 1260004.	0.7	3
3178	Shape control of highly crystallized titania nanorods based on formation mechanism. Journal of Materials Research, 2012, 27, 440-447.	1.2	32
3179	Hydrothermally Grown Nanostructured Tungsten Trioxide (hydrate) Films and their Photocatalytic Properties. Materials Research Society Symposia Proceedings, 2012, 1406, .	0.1	1
3180	DUAL-FUNCTION LAYER OF MESOPOROUS STRUCTURE ANATASE TiO <sub>2</sub> FOR HIGH PERFORMANCE DYE-SENSITIZED SOLAR CELLS. Functional Materials Letters, 2012, 05, 1250017.	0.7	6
3181	CHARACTERISTIC VIBRATIONAL MODES OF H <sub>2</sub> O ADSORBED MOLECULARLY AND DISSOCIATIVELY ON TITANIUM OXIDE CLUSTERS. Journal of Theoretical and Computational Chemistry, 2012, 11, 1289-1295.	1.8	1
3182	Effect of an Ultraviolet-Ozone Treatment on the Electrical Properties of Titanium-Oxide Thin-Film Transistors Fabricated by Using a Sol-Gel Process. Journal of the Electrochemical Society, 2012, 159, B771-B774.	1.3	9
3184	Effects of the Multi-Layered Light Scattering Layers Dual-Coated by Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> on Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2012, 565, 37-42.	0.4	1
3185	Surface Modification of the TiO <sub>2</sub> Light Scattering Layer for Dye-Sensitized Solar Cells (DSSCs). Molecular Crystals and Liquid Crystals, 2012, 565, 43-51.	0.4	1
3186	Photoelectrochemical Properties of Nanocrystalline Sb <sub>6</sub> O <sub>13</sub> , MgSb <sub>2</sub> O <sub>6</sub> , and ZnSb <sub>2</sub> O <sub>6</sub> -Based Electrodes for Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE23.	0.8	5
3187	Al-Doped ZnO Film as a Transparent Conductive Substrate in Indoline-Sensitized Nanoporous ZnO Solar Cell.. Materials Research Society Symposia Proceedings, 2012, 1494, 345-350.	0.1	0
3189	The Parameter Estimate Method to Determine the Optimal Thickness for DSSC Electrode. Key Engineering Materials, 2012, 519, 57-60.	0.4	0
3190	Fabrication of Titanium Oxide Film with high crystallinity by the New Electrochemical Techniques. Materials Research Society Symposia Proceedings, 2012, 1394, 120.	0.1	1
3191	Effect of silver-doping on the crystal structure, morphology and photocatalytic activity of TiO <sub>2</sub> nanofibers. IOP Conference Series: Materials Science and Engineering, 2012, 40, 012003.	0.3	3

#	ARTICLE	IF	CITATIONS
3192	The Influence of Titania Electrode Modification with Lanthanide Ions Containing Thin Layer on the Performance of Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-8.	1.4	25
3193	Acid Treatment of Titania Pastes to Create Scattering Layers in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-8.	1.4	10
3194	Fabrication of Monolithic Dye-Sensitized Solar Cell Using Ionic Liquid Electrolyte. International Journal of Photoenergy, 2012, 2012, 1-6.	1.4	17
3195	Investigating the Photoelectrochemistry of Transparent ZnO Grown on ITO/Plastic for Flexible Photoelectrochemical Cell and Photovoltaic Application. Materials Research Society Symposia Proceedings, 2012, 1387, 1.	0.1	0
3196	Effective Sol-Gel Nanocoatings on ZnO Electrodes for Suppressing Recombination in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-14.	1.4	5
3197	Performance Degradation of Dye-Sensitized Solar Cells Induced by Electrolytes. Advances in Materials Science and Engineering, 2012, 2012, 1-4.	1.0	14
3198	Photocatalytic Degradation of Organic Dyes under Visible Light on N-Doped $\text{TiO}_2$ . International Journal of Photoenergy, 2012, 2012, 1-8.	1.4	101
3199	Effects of Homogenization Scheme of $\text{TiO}_2$ Paste for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2012, 2012, 1-7.	1.4	101
3200	A Study on Luminescence Enhancement in Ion Irradiated $\text{TiO}_2/\text{Poly}(\text{methyl})$	0.3	2
3201	Preparation of regularly structured nanotubular $\text{TiO}_2$ thin films on ITO and their modification with thin ALD-grown layers. Nanotechnology, 2012, 23, 125707.	1.3	25
3202	Template synthesis and photovoltaic application of CdS nanotube arrays. Semiconductor Science and Technology, 2012, 27, 055017.	1.0	19
3203	Dry Drawn Multiwall Carbon Nanotube Sheet as a Counter Electrode for Dye-Sensitized Solar Cells: Multilayer Optimization. Advanced Materials Research, 0, 622-623, 833-837.	0.3	1
3204	Preparation of semiconducting copolymer and its application in nanocrystalline $\text{TiO}_2$ solar cells. Materials Research Innovations, 2012, 16, 385-389.	1.0	0
3205	Temperature and Irradiance Dependence of a Dye Sensitized Solar Cell With Acetonitrile Based Electrolyte. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, .	1.1	4
3206	STUDY OF VISIBLE LIGHT REACTIVE PHOTOCATALYST $\text{TiO}_2$ PREPARED WITH THIOUREA. International Journal of Modern Physics Conference Series, 2012, 06, 19-24.	0.7	1
3207	A large amount synthesis of nanopowder using modulated induction thermal plasmas synchronized with intermittent feeding of raw materials. Journal of Physics: Conference Series, 2012, 406, 012001.	0.3	17
3208	Title is missing!. Kagaku To Seibutsu, 2012, 50, 865-867.	0.0	0
3210	Nanomaterials based on carbon and Ti(IV) oxides: some aspects of their electrochemistry. International Journal of Nanotechnology, 2012, 9, 652.	0.1	5

#	ARTICLE	IF	CITATIONS
3211	Forecasting a change in technology: are Dye-sensitised Solar Cells a source of ubiquitous energy?. International Journal of Technology, Policy and Management, 2012, 12, 177.	0.1	3
3212	Conductive nanowires coated with a semiconductive shell as the photoanode in dye-sensitised solar cells. International Journal of Nano and Biomaterials, 2012, 4, 196.	0.1	3
3213	Synthesis of Echinoid-like TiO <sub>2</sub> Particles through Modified Sol-Gel Method Using PVA as a Surface-directing Agent and Their Photocatalytic Activity. Chemistry Letters, 2012, 41, 173-174.	0.7	6
3214	Control of Molecular Arrangement and/or Orientation of Various Fluorescent Dyes for Dye-sensitized Solar Cells. Chemistry Letters, 2012, 41, 1384-1396.	0.7	24
3215	ZnO:GaN thin films for photoelectrochemical water splitting application. Emerging Materials Research, 2012, 1, 201-204.	0.4	6
3216	Nanowire-nanoparticle conjugate photolytic device. Nanomaterials and Energy, 2012, 1, 159-167.	0.1	1
3217	Structural Change of Pheophorbide Methyl Ester by Contact with Titanium Oxide Particles. Chemistry Letters, 2012, 41, 360-362.	0.7	4
3218	Solar cell based on PEO, inorganic cations and ionic liquids. Nanomaterials and Energy, 2012, 1, 216-224.	0.1	2
3219	5 Properties and Applications. , 2012, , 184-192.		0
3220	Higher water splitting hydrogen generation rate for single crystalline anatase phase of TiO <sub>2</sub> nanotube arrays. EPJ Applied Physics, 2012, 59, 20403.	0.3	12
3221	Mesoporous titania: From synthesis to application. Nano Today, 2012, 7, 344-366.	6.2	260
3222	Nanostructured bilayered thin films in photoelectrochemical water splitting – A review. International Journal of Hydrogen Energy, 2012, 37, 18713-18730.	3.8	193
3223	Thiocyanate-free cyclometalated ruthenium sensitizers for solar cells based on heteroaromatic-substituted 2-arylpyridines. Dalton Transactions, 2012, 41, 11731.	1.6	39
3224	Effect of electrodeposition parameters and addition of chloride ions on the structural and optoelectronic properties of Cu <sub>2</sub> O. Electrochimica Acta, 2012, 82, 402-407.	2.6	27
3225	Disulfide/Thiolate Based Redox Shuttle for Dye-Sensitized Solar Cells: An Impedance Spectroscopy Study. Journal of Physical Chemistry C, 2012, 116, 25233-25241.	1.5	25
3226	A catalytic composite film of MoS <sub>2</sub> /graphene flake as a counter electrode for Pt-free dye-sensitized solar cells. Electrochimica Acta, 2012, 85, 162-168.	2.6	152
3227	Band gap-tunable (CuIn) <sub>x</sub> Zn <sub>2(1-x)</sub> S <sub>2</sub> solid solutions: preparation and efficient photocatalytic hydrogen production from water under visible light without noble metals. Journal of Materials Chemistry, 2012, 22, 23929.	6.7	55
3228	TiO <sub>2</sub> Nanotip Arrays: Anodic Fabrication and Field-Emission Properties. ACS Applied Materials & Interfaces, 2012, 4, 6053-6061.	4.0	44

#	ARTICLE	IF	CITATIONS
3229	Diphenylamino-substituted derivatives of 9-phenylcarbazole as glass-forming hole-transporting materials for solid state dye sensitized solar cells. <i>Synthetic Metals</i> , 2012, 162, 1997-2004.	2.1	21
3230	Charge transport at the metal oxide and organic interface. <i>Nanoscale</i> , 2012, 4, 7301.	2.8	18
3231	Pickering emulsions stabilized by amphiphilic nano-sheets. <i>Soft Matter</i> , 2012, 8, 10245.	1.2	111
3232	Cobalt Electrolyte/Dye Interactions in Dye-Sensitized Solar Cells: A Combined Computational and Experimental Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 19438-19453.	6.6	204
3233	Application of F4TCNQ doped spiro-MeOTAD in high performance solid state dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11689.	1.3	75
3234	Facile fabrication of visible light driven tin oxide photoanode and its photoelectrochemical water splitting properties. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12827-12832.	3.8	5
3235	Plasmonic Photoanodes for Solar Water Splitting with Visible Light. <i>Nano Letters</i> , 2012, 12, 5014-5019.	4.5	491
3236	Fungus-Mediated Green Synthesis of Silver Nanoparticles Using <i>Aspergillus terreus</i> . <i>International Journal of Molecular Sciences</i> , 2012, 13, 466-476.	1.8	397
3237	Synthesis and applications of new triphenylamine dyes with donor-acceptor (bridge)-acceptor structure for organic dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2012, 36, 2025.	1.4	44
3238	UV- and Visible-Light Photocatalytic Activity of Simultaneously Deposited and Doped Ag/Ag(I)-TiO <sub>2</sub> Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17721-17728.	1.5	233
3239	In Vivo Application of Optogenetics for Neural Circuit Analysis. <i>ACS Chemical Neuroscience</i> , 2012, 3, 577-584.	1.7	83
3240	Hydrogen bond effects in the vibrational spectra of 1,3-propanediol in acetonitrile: <i>Ab initio</i> and experimental study. <i>Journal of Chemical Physics</i> , 2012, 137, 244501.	1.2	10
3241	Stereoselective synthesis of hydroxy stilbenoids and styrenes by atom-efficient olefination with thiophthalides. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2742.	1.5	14
3243	Computational screening of perovskite metal oxides for optimal solar light capture. <i>Energy and Environmental Science</i> , 2012, 5, 5814-5819.	15.6	354
3244	Electronic structures and optical properties of organic dye sensitizer NKX derivatives for solar cells: A theoretical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2012, 38, 419-429.	1.3	42
3246	Solid-state dye-sensitized solar cells based on spirofluorene (spiro-OMeTAD) and arylamines as hole transporting materials. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14099.	1.3	99
3247	Factors Controlling Asymmetrization of the Simplest Linear I <sub>3</sub> <sup>-</sup> and I <sub>4</sub> <sup>2-</sup> Polyiodides with Implications for the Nature of Halogen Bonding. <i>Crystal Growth and Design</i> , 2012, 12, 1762-1771.	1.4	46
3249	Synthesis and Characterization of Magnesium-Alloyed Hematite Thin Films. <i>Journal of Electronic Materials</i> , 2012, 41, 3100-3106.	1.0	7



#	ARTICLE	IF	CITATIONS
3250	Structural and Electronic Properties of the TTF/ZnO(10 <sup>10</sup> ) Interface: Insights From Modeling. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 58-63.	2.1	12
3251	Importance of Diffusion in Methanol Photochemistry on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , 2012, 116, 25465-25469.	1.5	66
3252	Metal-induced solid-phase crystallization of amorphous TiO <sub>2</sub> thin films. <i>Applied Physics Letters</i> , 2012, 101, 052101.	1.5	23
3253	Influence of the charge generation profile on the collection efficiency of nanostructured solar cells: a random walk numerical simulation study. <i>Molecular Simulation</i> , 2012, 38, 1242-1250.	0.9	4
3254	Selective local nitrogen doping in a TiO <sub>2</sub> electrode for enhancing photoelectrochemical water splitting. <i>Chemical Communications</i> , 2012, 48, 8649.	2.2	37
3255	One-step synthesis of CdS@TiO <sub>2</sub> @chemically reduced graphene oxide composites via microwave-assisted reaction for visible-light photocatalytic degradation of methyl orange. <i>Catalysis Science and Technology</i> , 2012, 2, 754.	2.1	75
3256	Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Tube-like Nanostructures: Synthesis, Structural Transformation and the Enhanced Sensing Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 665-671.	4.0	98
3257	Modulating the electronic properties of asymmetric push-pull and symmetric Zn(II)-diarylporphyrinates with para substituted phenylethynyl moieties in 5,15 meso positions: A combined electrochemical and spectroscopic investigation. <i>Electrochimica Acta</i> , 2012, 85, 509-523.	2.6	23
3258	A simple acrylic acid functionalized zinc porphyrin for cost-effective dye-sensitized solar cells. <i>Chemical Communications</i> , 2012, 48, 7619.	2.2	34
3259	Hierarchically micro/nanostructured photoanode materials for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 15475.	6.7	141
3260	Stepwise Photocatalytic Dissociation of Methanol and Water on TiO <sub>2</sub> (110). <i>Journal of the American Chemical Society</i> , 2012, 134, 13366-13373.	6.6	244
3261	Quantum Dynamical Simulations as a Tool for Predicting Photoinjection Mechanisms in Dye-Sensitized TiO <sub>2</sub> Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2548-2555.	2.1	63
3262	Hydrogen in oxide semiconductors. <i>Journal of Materials Research</i> , 2012, 27, 2190-2198.	1.2	72
3263	A comparative study of charge transport in quasi-solid state dye-sensitized solar cells using polymer or nanocomposite gel electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 2012, 687, 45-50.	1.9	19
3264	Review: An Economic Perspective on Liquid Solar Fuels. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1722-A1729.	1.3	82
3265	TiO <sub>2</sub> -Coated Carbon Nanotube-Silicon Solar Cells with Efficiency of 15%. <i>Scientific Reports</i> , 2012, 2, 884.	1.6	141
3266	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. <i>Nature Communications</i> , 2012, 3, 631.	5.8	554
3267	CdTe quantum dots-sensitized solar cells featuring PCBM/P3HT as hole transport material and assistant sensitizer provide 3.40% efficiency. <i>Electrochimica Acta</i> , 2012, 85, 182-186.	2.6	17

#	ARTICLE	IF	CITATIONS
3268	Evaluation and optimization of mass transport of redox species in silicon microwire-array photoelectrodes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15622-15627.	3.3	43
3269	Effect of the Support on the Photocatalytic Water Oxidation Activity of Cobalt Oxide Nanoclusters. ACS Catalysis, 2012, 2, 2753-2760.	5.5	91
3271	Fast Transporting ZnO@TiO <sub>2</sub> Coaxial Photoanodes for Dye-Sensitized Solar Cells Based on ALD-Modified SiO <sub>2</sub> Aerogel Frameworks. ACS Nano, 2012, 6, 6185-6196.	7.3	76
3272	On the Intercalation of the Iodine/Iodide Couple on Layered Double Hydroxides with Different Particle Sizes. Inorganic Chemistry, 2012, 51, 2560-2568.	1.9	52
3273	Photo-electrochemical water splitting system with three-layer n-type organic semiconductor film as photoanode under visible irradiation. Science China Chemistry, 2012, 55, 1953-1958.	4.2	10
3274	Excited State Dynamics of Two New Ru(II) Cyclometallated Dyes: Relation to Cells for Solar Energy Conversion and Comparison to Conventional Systems. Journal of Physical Chemistry C, 2012, 116, 22186-22195.	1.5	29
3275	Preparation of nanoporous TiO <sub>2</sub> electrodes using different mesostructured silica templates and improvement of the photovoltaic properties of DSSCs. New Journal of Chemistry, 2012, 36, 2094.	1.4	20
3276	Fe, Co, and Ni ions promote the catalytic activity of amorphous molybdenum sulfide films for hydrogen evolution. Chemical Science, 2012, 3, 2515.	3.7	861
3277	Is Photooxidation Activity of {001} Facets Truly Lower Than That of {101} Facets for Anatase TiO <sub>2</sub> Crystals?. Journal of Physical Chemistry C, 2012, 116, 26800-26804.	1.5	80
3278	Functionalized styryl bipyridine as a superior chelate for a ruthenium sensitizer in dye sensitized solar cells. Dalton Transactions, 2012, 41, 8770.	1.6	29
3279	Synthesis, Characterization, and DNA Binding Properties of Ruthenium(II) Complexes Containing the Redox Active Ligand Benzo[ <i>i</i> ]dipyrido[3,2- <i>a</i> :2',3'- <i>c</i> ]phenazine-11,16-quinone. Inorganic Chemistry, 2012, 51, 463-471.	1.9	51
3282	Nanotechnology-Enabled Energy Harvesting for Self-Powered Micro/Nanosystems. Angewandte Chemie - International Edition, 2012, 51, 11700-11721.	7.2	910
3283	Photocatalytic Overall Water Splitting Promoted by an $\text{In}_2\text{S}_3/\text{TiO}_2$ phase Junction on Ga <sub>2</sub> O <sub>3</sub> . Angewandte Chemie - International Edition, 2012, 51, 13089-13092.	7.2	574
3284	Fine Tuning the Performance of DSSCs by Variation of the $\text{C}_6\text{H}_4$ Spacers in Organic Dyes that Contain a 2,7-Diaminofluorene Donor. Chemistry - an Asian Journal, 2012, 7, 2942-2954.	1.7	19
3285	Efficient Water Splitting via a Heteroepitaxial BiVO <sub>4</sub> Photoelectrode Decorated with Co/Pi Catalysts. ChemSusChem, 2012, 5, 1420-1425.	3.6	104
3286	Microfluidic housing system: a useful tool for the analysis of dye-sensitized solar cell components. Applied Physics A: Materials Science and Processing, 2012, 109, 377-383.	1.1	19
3287	Visible-Light Photocatalytic Properties of W <sub>18</sub> O <sub>49</sub> /TiO <sub>2</sub> and WO <sub>3</sub> /TiO <sub>2</sub> Heterocomposites. Catalysis Letters, 2012, 142, 1482-1488.	1.4	23
3288	Electronic structure and photocatalytic activity of N/Mo doped anatase TiO <sub>2</sub> . Catalysis Communications, 2012, 29, 175-179.	1.6	24

#	ARTICLE	IF	CITATIONS
3289	Light-driven water oxidation for solar fuels. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2503-2520.	9.5	337
3290	A perspective on solar energy conversion and water photosplitting by dithiolene complexes. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2424-2434.	9.5	81
3291	Porphyrins in bio-inspired transformations: Light-harvesting to solar cell. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2601-2627.	9.5	258
3292	Influence of La <sup>3+</sup> and Fe <sup>3+</sup> co-doping to nano-TiO <sub>2</sub> prepared by graded calcination. <i>Journal of Alloys and Compounds</i> , 2012, 542, 293-297.	2.8	0
3293	WO <sub>3</sub> photocatalysts: Influence of structure and composition. <i>Journal of Catalysis</i> , 2012, 294, 119-127.	3.1	299
3294	Applications of nano-catalyst in new era. <i>Journal of Saudi Chemical Society</i> , 2012, 16, 307-325.	2.4	406
3295	A photoactive titanate with a stereochemically active Sn lone pair: Electronic and crystal structure of Sn <sub>2</sub> TiO <sub>4</sub> from computational chemistry. <i>Journal of Solid State Chemistry</i> , 2012, 196, 157-160.	1.4	24
3296	Synthesis and characterization of anatase TiO <sub>2</sub> nanotubes with controllable crystal size by a simple MWCNT template method. <i>Journal of Solid State Chemistry</i> , 2012, 196, 435-440.	1.4	13
3297	Defect minimization and morphology optimization in TiO <sub>2</sub> nanotube thin films, grown on transparent conducting substrate, for dye synthesized solar cell application. <i>Thin Solid Films</i> , 2012, 522, 71-78.	0.8	12
3298	Influence of gallium on the growth and photoelectrochemical performances of AgIn <sub>5</sub> S <sub>8</sub> photoelectrodes. <i>Thin Solid Films</i> , 2012, 524, 238-244.	0.8	3
3299	Ruthenium dyes with heteroleptic tridentate 2,6-bis(benzimidazol-2-yl)-pyridine for dye-sensitized solar cells: Enhancement in performance through structural modifications. <i>Inorganica Chimica Acta</i> , 2012, 392, 388-395.	1.2	15
3300	Femto- to Millisecond Photophysical Characterization of Indole-Based Squaraines Adsorbed on TiO <sub>2</sub> Nanoparticle Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12137-12148.	1.5	39
3301	The blocking effect of charge recombination by sputtered and acid-treated ZnO thin film in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 248, 50-54.	2.0	18
3302	Tracking of charges in titania doped sillimanite mesophase using opto-impedance probe. <i>Chemical Physics Letters</i> , 2012, 548, 34-39.	1.2	2
3303	Synthesis and photovoltaic properties of two new unsymmetrical zinc-phthalocyanine dyes. <i>Synthetic Metals</i> , 2012, 162, 2316-2321.	2.1	6
3304	A nanostructured hybrid synthesized by the intercalation of CoTMPyP into layered titanate: Direct electrochemistry and electrocatalysis. <i>Electrochemistry Communications</i> , 2012, 24, 74-77.	2.3	12
3305	Applying porous polyimide films in fibrous dye-sensitized solar cells. <i>Solar Energy</i> , 2012, 86, 2606-2612.	2.9	3
3306	Effect of ZnS coatings on the enhancement of the photovoltaic properties of PbS quantum dot-sensitized solar cells. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	66

#	ARTICLE	IF	CITATIONS
3307	Directly Determine an Additive-Induced Shift in Quasi-Fermi Level of TiO <sub>2</sub> Films in Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE15.	0.8	1
3308	ZnSe nanoribbon/Si nanowire p-n heterojunction arrays and their photovoltaic application with graphene transparent electrodes. Journal of Materials Chemistry, 2012, 22, 22873.	6.7	32
3309	The effect of ligand substitution and water co-adsorption on the adsorption dynamics and energy level matching of amino-phenyl acid dyes on TiO <sub>2</sub> . Physical Chemistry Chemical Physics, 2012, 14, 1749-1755.	1.3	18
3310	Self-assembly of TiO <sub>2</sub> composite microspheres: Facile synthesis, characterization and photocatalytic activities. CrystEngComm, 2012, 14, 7118.	1.3	12
3311	Metal-free organic dyes derived from triphenylethylene for dye-sensitized solar cells: tuning of the performance by phenothiazine and carbazole. Journal of Materials Chemistry, 2012, 22, 8994.	6.7	150
3312	Solid-state dye-sensitized solar cells from polymer-templated TiO <sub>2</sub> bilayer thin films. Canadian Journal of Chemistry, 2012, 90, 1048-1055.	0.6	0
3313	The charge transport and photoconduction mechanisms of TiO <sub>2</sub> -based dye sensitized solar cell. , 2012, , .		0
3314	Control of morphology and size of platinum crystals through amphiphilic polymer-assisted microemulsions and their uses in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 12305.	6.7	19
3315	Hierarchically structured Pt/CNT@TiO <sub>2</sub> nanocatalysts with ultrahigh stability for low-temperature fuel cells. RSC Advances, 2012, 2, 792-796.	1.7	41
3316	Electrospun nest-shaped TiO <sub>2</sub> structures as a scattering layer for dye sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 24326.	6.7	38
3317	Ionic liquid nanotribology: mica-silica interactions in ethylammonium nitrate. Physical Chemistry Chemical Physics, 2012, 14, 5147-5152.	1.3	80
3318	Multi-functional photoanode films using mesoporous TiO <sub>2</sub> aggregate structure for efficient dye sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 10873.	6.7	43
3319	Large scale synthesis of V-shaped rutile twinned nanorods. CrystEngComm, 2012, 14, 3120.	1.3	14
3320	Colloidal metal oxide particles loaded with synthetic catalysts for solar H <sub>2</sub> production. Faraday Discussions, 2012, 155, 191-205.	1.6	24
3321	Light scattering enhancement from sub-micrometer cavities in the photoanode for dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 16201.	6.7	50
3322	The effect of oxygen vacancies on the binding interactions of NH <sub>3</sub> with rutile TiO <sub>2</sub> (110)-1 Å <sup>-1</sup> . Physical Chemistry Chemical Physics, 2012, 14, 15060.	1.3	15
3323	Polymer-dispersed MWCNT gel electrolytes for high performance of dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 6982.	6.7	53
3324	Superior energy band structure and retarded charge recombination for Anatase N, B codoped nano-crystalline TiO <sub>2</sub> anodes in dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 9123.	6.7	31

#	ARTICLE	IF	CITATIONS
3325	Interfacial engineering of quantum dot-sensitized TiO <sub>2</sub> fibrous electrodes for futuristic photoanodes in photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 14228.	6.7	32
3326	Efficient light-scattering functionalized TiO <sub>2</sub> photoanodes modified with cyanobiphenyl-based benzimidazole for dye-sensitized solar cells with additive-free electrolytes. <i>Journal of Materials Chemistry</i> , 2012, 22, 18380.	6.7	31
3327	Enhanced UV Response of Single Anodic TiO <sub>2</sub> Nanotube: Effect of Water-Modified Microstructures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16864-16869.	1.5	9
3328	Oxygen-Controlled Photoconductivity in ZnO Nanowires Functionalized with Colloidal CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19604-19610.	1.5	29
3329	Eco-friendly solar light driven hydrogen production from copious waste H <sub>2</sub> S and organic dye degradation by stable and efficient orthorhombic CdS quantum dots@GeO <sub>2</sub> glass photocatalyst. <i>Green Chemistry</i> , 2012, 14, 1455.	4.6	54
3330	Several highly efficient catalysts for Pt-free and FTO-free counter electrodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 4009.	6.7	73
3331	Effects of Cr <sub>2</sub> O <sub>3</sub> modification on the performance of SnO <sub>2</sub> electrodes in DSSCs. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3576.	1.3	15
3332	CdS/CdSe Double-Sensitized ZnO Nanocable Arrays Synthesized by Chemical Solution Method and Their Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2656-2661.	1.5	65
3333	Surface Effects on Catechol/Semiconductor Interfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17158-17163.	1.5	21
3334	Growth of Epitaxial Anatase TiO <sub>2</sub> (001) Thin Film on NaCl(001) Substrate by Ion Beam Sputtering and Thermal Annealing. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 045502.	0.8	4
3335	Visible to Near-Infrared Photoelectric Conversion in a Dye-Sensitized Solar Cell Using Ru(II) Porphyrin with Azopyridine Axial Ligands. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE02.	0.8	4
3336	Photoelectrochemical cells for hydrogen generation. , 2012, , 91-146e.		4
3337	Voltage enhancement in dye-sensitized solar cell using (001)-oriented anatase TiO <sub>2</sub> nanosheets. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2993-3001.	1.2	64
3338	Formation of Pt@TiO <sub>2</sub> @rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 473-476.	1.3	67
3339	Structure, reactivity, photoactivity and stability of Ti@O based materials: a theoretical comparison. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2333.	1.3	47
3340	Nano-indentation of a room-temperature ionic liquid film on silica: a computational experiment. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2475.	1.3	17
3341	CoAPO <sub>5</sub> as a water oxidation catalyst and a light sensitizer. <i>Chemical Communications</i> , 2012, 48, 5754.	2.2	17
3342	Femtosecond to millisecond studies of electron transfer processes in a donor@(I <sup>-</sup> -spacer)@acceptor series of organic dyes for solar cells interacting with titania nanoparticles and ordered nanotube array films. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2816.	1.3	40

#	ARTICLE	IF	CITATIONS
3343	Enhanced light-harvesting capability by phenothiazine in ruthenium sensitizers with superior photovoltaic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 130-139.	6.7	20
3344	Energy transfer from a rhodamine antenna to a ruthenium-bipyridine center. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 843-847.	1.6	16
3345	Genetic Algorithm-assisted optimization of partially dyed-TiO <sub>2</sub> for room-temperature printable photoanodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 551-556.	6.7	9
3346	Synthesis of hierarchical SnO <sub>2</sub> octahedra with tailorable size and application in dye-sensitized solar cells with enhanced power conversion efficiency. <i>Journal of Materials Chemistry</i> , 2012, 22, 21495.	6.7	51
3347	Electrochemical synthesis of CdS/ZnO nanotube arrays with excellent photoelectrochemical properties. <i>Chemical Communications</i> , 2012, 48, 242-244.	2.2	105
3348	Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce phosphors as a scattering layer for high-efficiency dye sensitized solar cells. <i>Chemical Communications</i> , 2012, 48, 958-960.	2.2	74
3349	Three-dimensional nano-foam of few-layer graphene grown by CVD for DSSC. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7938.	1.3	106
3350	High-performance dye-sensitized solar cells based on PEDOT nanofibers as an efficient catalytic counter electrode. <i>Journal of Materials Chemistry</i> , 2012, 22, 21624.	6.7	97
3352	Electron Properties of F, and N Doped Hematite: The Application for Photocatalysis. <i>Advanced Materials Research</i> , 2012, 562-564, 298-301.	0.3	5
3353	Ion-Exchange Properties of Imidazolium-Grafted SBA-15 toward AuCl <sub>4</sub> <sup>-</sup> Anions and Their Conversion into Supported Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 10281-10288.	1.6	36
3354	Effective Panchromatic Sensitization of Electrochemical Solar Cells: Strategy and Organizational Rules for Spatial Separation of Complementary Light Harvesters on High-Area Photoelectrodes. <i>Journal of the American Chemical Society</i> , 2012, 134, 19820-19827.	6.6	43
3355	Effects of V-Ion Doping on the Photoelectrochemical Properties of Epitaxial TiO <sub>2</sub> (110) Thin Films on Nb-Doped TiO <sub>2</sub> (110) Single Crystals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16951-16956.	1.5	14
3356	Effect of Layer-by-Layer Assembled SnO <sub>2</sub> Interfacial Layers in Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>Langmuir</i> , 2012, 28, 10620-10626.	1.6	30
3357	Photoanodes Consisting of Mesoporous Anatase TiO <sub>2</sub> Beads with Various Sizes for High-Efficiency Flexible Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2600-2607.	1.5	26
3358	Ionic Crystals of {[Ni(phen) <sub>3</sub> ] <sub>2</sub> Ge <sub>4</sub> S <sub>10</sub> }·xSol, Showing Solid-State Solvatochromism and Rapid Solvent-Induced Recrystallization. <i>Inorganic Chemistry</i> , 2012, 51, 1330-1335.	1.9	25
3359	Topotactic transformation of single-crystalline TiOF <sub>2</sub> nanocubes to ordered arranged 3D hierarchical TiO <sub>2</sub> nanoboxes. <i>CrystEngComm</i> , 2012, 14, 4578.	1.3	53
3360	Functional Films of Polymer-Nanocomposites by Electrospinning for Advanced Electronics, Clean Energy Conversion, and Storage. <i>Advanced Materials Research</i> , 0, 545, 21-26.	0.3	0
3361	Synthesis of Panchromatic Ru(II) Thienyl-Dipyrrin Complexes and Evaluation of Their Light-Harvesting Capacity. <i>Inorganic Chemistry</i> , 2012, 51, 1614-1624.	1.9	41

#	ARTICLE	IF	CITATIONS
3362	Rational design of the nanowall photoelectrode for efficient solar water splitting. <i>Chemical Communications</i> , 2012, 48, 3439.	2.2	31
3363	Transition from Photoconductivity to Photovoltaic Effect in P3HT/CuInSe <sub>2</sub> Composites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7280-7286.	1.5	43
3364	High-performance dye-sensitized solar cells based on hierarchical yolk-shell anatase TiO <sub>2</sub> beads. <i>Journal of Materials Chemistry</i> , 2012, 22, 1627-1633.	6.7	67
3365	Bicontinuous Ceramics with High Surface Area from Block Copolymer Templates. <i>Langmuir</i> , 2012, 28, 8518-8529.	1.6	72
3366	A facile strategy to passivate surface states on the undoped hematite photoanode for water splitting. <i>Electrochemistry Communications</i> , 2012, 23, 41-43.	2.3	43
3367	Narrowing band gap of platinum acetylide dye-sensitized solar cell sensitizers with thiophene ï€-bridges. <i>Journal of Materials Chemistry</i> , 2012, 22, 5382.	6.7	82
3368	First-Principles Structural and Electronic Characterization of Ordered SiO <sub>2</sub> Nanowires. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18973-18982.	1.5	22
3369	A Theoretical Study of Water Adsorption and Decomposition on the Low-Index Stoichiometric Anatase TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7430-7441.	1.5	70
3370	Interface modification of 8-hydroxyquinoline aluminium with combined effects in quasi-solid dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5973.	1.3	6
3371	Biological Templates for Antireflective Current Collectors for Photoelectrochemical Cell Applications. <i>Nano Letters</i> , 2012, 12, 6005-6011.	4.5	74
3372	Nanosheet-constructed porous BiOCl with dominant {001} facets for superior photosensitized degradation. <i>Nanoscale</i> , 2012, 4, 7780.	2.8	231
3373	Recent progress in mesoporous titania materials: adjusting morphology for innovative applications. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 013003.	2.8	170
3374	Integrated photoelectrochemical energy storage: solar hydrogen generation and supercapacitor. <i>Scientific Reports</i> , 2012, 2, 981.	1.6	85
3375	Synthesis and electrical characterization of dyesensitized solar cell with Fluorescein Sodium Salt. , 2012, , .		0
3376	Photoelectrochemical cells with tungsten trioxide/Mo-doped BiVO <sub>4</sub> bilayers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11119.	1.3	107
3377	PbS/CdS-sensitized mesoscopic SnO <sub>2</sub> solar cells for enhanced infrared light harnessing. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7367.	1.3	59
3378	Efficient Photocatalytic Hydrogen Production by Platinum-Loaded Carbon-Doped Cadmium Indate Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 2426-2431.	4.0	24
3379	Titania Nanostructures for Dye-sensitized Solar Cells. <i>Nano-Micro Letters</i> , 2012, 4, 253-266.	14.4	24

#	ARTICLE	IF	CITATIONS
3380	Alloy and heterostructure architectures as promising tools for controlling electronic properties of semiconductor quantum dots. <i>Physical Review B</i> , 2012, 85, .	1.1	32
3381	Structural Control of Photoinduced Dynamics in 4 <i>H</i> -Imidazole-Ruthenium Dyes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25664-25676.	1.5	38
3382	Photoelectrochemical Conversion of Toluene to Methylcyclohexane as an Organic Hydride by Cu <sub>2</sub> ZnSnS <sub>4</sub> -Based Photoelectrode Assemblies. <i>Journal of the American Chemical Society</i> , 2012, 134, 2469-2472.	6.6	53
3383	One-dimensional nanostructured materials for solar energy harvesting. <i>Nanomaterials and Energy</i> , 2012, 1, 4-17.	0.1	31
3384	Molecular Layer Deposition of Titanicene Films using TiCl <sub>4</sub> and Ethylene Glycol or Glycerol: Growth and Properties. <i>Chemistry of Materials</i> , 2012, 24, 2854-2863.	3.2	100
3385	How Important is Working with an Ordered Electrode to Improve the Charge Collection Efficiency in Nanostructured Solar Cells?. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 386-393.	2.1	48
3386	TiO <sub>2</sub> Nanorod-Derived Synthesis of Upstanding Hexagonal Kassite Nanosheet Arrays: An Intermediate Route to Novel Nanoporous TiO <sub>2</sub> Nanosheet Arrays. <i>Crystal Growth and Design</i> , 2012, 12, 289-296.	1.4	22
3387	Tuning the Area Percentage of Reactive Surface of TiO <sub>2</sub> by Strain Engineering. <i>Physical Review Letters</i> , 2012, 109, 156104.	2.9	25
3388	Probing Redox Photocatalysis of Trapped Electrons and Holes on Single Sb-doped Titania Nanorod Surfaces. <i>Journal of the American Chemical Society</i> , 2012, 134, 3946-3949.	6.6	64
3389	Topotactic Reduction Yielding Black Titanium Oxide Nanostructures as Metallic Electronic Conductors. <i>Inorganic Chemistry</i> , 2012, 51, 10136-10140.	1.9	43
3390	Ni-Doped Overlayer Hematite Nanotube: A Highly Photoactive Architecture for Utilization of Visible Light. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24060-24067.	1.5	69
3391	Electronic Structure of Diamond Surfaces Functionalized by Ru(tpy) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 13877-13883.	1.5	21
3392	Energy Levels, Electronic Properties, and Rectification in Ultrathin p-NiO Films Synthesized by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16830-16840.	1.5	88
3393	Ternary Asymmetric Particles with Controllable Patchiness. <i>Langmuir</i> , 2012, 28, 2382-2386.	1.6	12
3394	Preparation of Photoanode of Dye-Sensitized Solar Cell by Electrospinning. <i>Advanced Materials Research</i> , 2012, 627, 896-899.	0.3	1
3395	Effects of Surface Electrochemical Pretreatment on the Photoelectrochemical Performance of Mo-Doped BiVO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 5076-5081.	1.5	172
3396	Application of Poly(3,4-ethylenedioxythiophene):Polystyrenesulfonate/Polypyrrole Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18057-18063.	1.5	108
3397	Improving Photoelectrical Performance of a Dye Sensitized Solar Cell by Doping Rare-earth Oxide Y <sub>2</sub> O <sub>3</sub> :(Eu <sup>3+</sup> , Gd <sup>3+</sup> ). <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2012, 34, 1534-1540.	1.2	4



#	ARTICLE	IF	CITATIONS
3398	Enhancement of Near-IR Photoelectric Conversion in Dye-Sensitized Solar Cells Using an Osmium Sensitizer with Strong Spin-Forbidden Transition. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 394-398.	2.1	67
3399	Synthesis of TiO <sub>2</sub> Nanocoral Structures in Ever-Changing Aqueous Reaction Systems. <i>Langmuir</i> , 2012, 28, 2637-2642.	1.6	16
3400	On the Interfacial Electronic Structure Origin of Efficiency Enhancement in Hematite Photoanodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22780-22785.	1.5	46
3401	Temperature-Dependent Ordering Phenomena of a Polyiodide System in a Redox-Active Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7989-7992.	1.5	23
3402	Selective Imaging of Active Pharmaceutical Ingredients in Powdered Blends with Common Excipients Utilizing Two-Photon Excited Ultraviolet-Fluorescence and Ultraviolet-Second Order Nonlinear Optical Imaging of Chiral Crystals. <i>Analytical Chemistry</i> , 2012, 84, 5869-5875.	3.2	36
3403	Nonadiabatic Dynamics of Photoinduced Proton-Coupled Electron Transfer: Comparison of Explicit and Implicit Solvent Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7695-7708.	1.2	34
3404	Adsorption of Co-Phthalocyanine on the Rutile TiO <sub>2</sub> (110) Surface: A Scanning Tunneling Microscopy/Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20300-20305.	1.5	38
3405	Effects of electron beam irradiation on the photoelectrochemical properties of TiO <sub>2</sub> film for DSSCs. <i>Radiation Physics and Chemistry</i> , 2012, 81, 954-957.	1.4	14
3406	Synthesis, characterization and photocatalytic performance of self-assembled mesoporous TiO <sub>2</sub> nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 300-304.	2.0	17
3407	Nanostructured platinum counter electrodes by self-assembled nanospheres for dye-sensitized solar cells. <i>Organic Electronics</i> , 2012, 13, 1865-1872.	1.4	14
3408	Design of new metal-free dyes for dye-sensitized solar cells: A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2595-2599.	0.9	9
3409	UV-resistant amorphous fluorinated coating for anodized titanium surfaces. <i>Progress in Organic Coatings</i> , 2012, 74, 794-800.	1.9	21
3410	Band gap engineering of TiO <sub>2</sub> nanostructure-based dye solar cells (DSCs) fabricated via electrophoresis. <i>Surface and Coatings Technology</i> , 2012, 206, 4531-4538.	2.2	27
3411	Electroless platinum counter electrodes with Pt-activated self-assembled monolayer on transparent conducting oxide. <i>Surface and Coatings Technology</i> , 2012, 206, 4672-4678.	2.2	12
3412	Strain effect on diffusion properties of oxygen vacancies in bulk and subsurface of rutile TiO <sub>2</sub> . <i>Surface Science</i> , 2012, 606, 186-191.	0.8	26
3413	Charge transfer dynamics in molecular solids and adsorbates driven by local and non-local excitations. <i>Surface Science</i> , 2012, 606, 881-885.	0.8	17
3414	Surface chemistry and nonadecanoic acid adsorbate layers on TiO <sub>2</sub> (100) surfaces prepared at ambient conditions. <i>Surface Science</i> , 2012, 606, 1527-1533.	0.8	13
3415	Synthesis and characterization of La/Nd-doped barium-ferrite/polypyrrole nanocomposites. <i>Synthetic Metals</i> , 2012, 162, 677-681.	2.1	49

#	ARTICLE	IF	CITATIONS
3416	Preparation of TiO <sub>2</sub> paste using poly(vinylpyrrolidone) for dye sensitized solar cells. Thin Solid Films, 2012, 520, 7018-7021.	0.8	15
3417	Combinatorial growth and analysis of TiInZnO films deposited by radio-frequency and direct-current magnetron co-sputtering system. Thin Solid Films, 2012, 520, 7083-7086.	0.8	4
3418	Mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> thin films synthesized via the sol-gel process for light-driven water oxidation. Physical Chemistry Chemical Physics, 2012, 14, 13224.	1.3	55
3419	Calculation of point defects in rutile TiO <sub>2</sub> by the screened-exchange hybrid functional. Physical Review B, 2012, 86, .	1.1	88
3420	Pulse electropolymerization of high performance PEDOT/MWCNT counter electrodes for Pt-free dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 19919.	6.7	189
3421	Iodine/iodide-free redox shuttles for liquid electrolyte-based dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9180.	15.6	146
3422	Self-assembled photosystem-I biophotovoltaics on nanostructured TiO <sub>2</sub> and ZnO. Scientific Reports, 2012, 2, 234.	1.6	211
3423	Anatase TiO <sub>2</sub> Surface Functionalization by Alkylphosphonic Acid: A DFT+D Study. Journal of Physical Chemistry C, 2012, 116, 2819-2828.	1.5	39
3424	Intercalation of Pt(II) Terpyridine Complexes into Layered K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> and Visible-Light-Driven Photocatalytic Production of H <sub>2</sub> . Journal of Physical Chemistry C, 2012, 116, 18873-18877.	1.5	42
3425	Formation of nanoparticles in solid-state matrices: a strategy for bulk transparent TiO <sub>2</sub> -polymer nanocomposites. Polymer Chemistry, 2012, 3, 3296.	1.9	13
3426	Electronic and optoelectronic nano-devices based on carbon nanotubes. Journal of Physics Condensed Matter, 2012, 24, 313202.	0.7	87
3427	Photostability and Thermal Decomposition of Benzoic Acid on TiO <sub>2</sub> . Journal of Physical Chemistry C, 2012, 116, 21508-21513.	1.5	19
3428	Alignment of electronic energy levels at electrochemical interfaces. Physical Chemistry Chemical Physics, 2012, 14, 11245.	1.3	233
3429	Conductive metal-organic frameworks and networks: fact or fantasy?. Physical Chemistry Chemical Physics, 2012, 14, 13120.	1.3	258
3430	Recent developments in redox electrolytes for dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 9394.	15.6	265
3431	Systematic calculation of threshold displacement energies: Case study in rutile. Physical Review B, 2012, 85, .	1.1	44
3432	Nanomaterials for renewable energy production and storage. Chemical Society Reviews, 2012, 41, 7909.	18.7	856
3433	Electron Small Polarons and Their Mobility in Iron (Oxyhydr)oxide Nanoparticles. Science, 2012, 337, 1200-1203.	6.0	166

#	ARTICLE	IF	CITATIONS
3434	Interface control with layer-by-layer assembled ionic polymers for efficient low-temperature dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 11179.	6.7	8
3435	Quaterpyridine Ligands for Panchromatic Ru(II) Dye Sensitizers. <i>Journal of Organic Chemistry</i> , 2012, 77, 7945-7956.	1.7	30
3436	Cu <sub>2</sub> O NiO <sub>x</sub> nanocomposite as an inexpensive photocathode in photoelectrochemical water splitting. <i>Chemical Science</i> , 2012, 3, 3482.	3.7	240
3437	Highly stable copper oxide composite as an effective photocathode for water splitting via a facile electrochemical synthesis strategy. <i>Journal of Materials Chemistry</i> , 2012, 22, 2456-2464.	6.7	438
3438	Ultrathin, Single-Crystal WO <sub>3</sub> Nanosheets by Two-Dimensional Oriented Attachment toward Enhanced Photocatalytic Reduction of CO <sub>2</sub> into Hydrocarbon Fuels under Visible Light. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3372-3377.	4.0	332
3439	Theoretical studies of COOH group effect on the performance of rhenium (I) tricarbonyl complexes with bispyridine sulfur-rich core ligand as dyes in DSSC. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	9
3440	Thermodynamic Oxidation and Reduction Potentials of Photocatalytic Semiconductors in Aqueous Solution. <i>Chemistry of Materials</i> , 2012, 24, 3659-3666.	3.2	627
3441	Few-layer MoS <sub>2</sub> nanosheets coated onto multi-walled carbon nanotubes as a low-cost and highly electrocatalytic counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 24753.	6.7	205
3442	Chain-like nanostructures from anisotropic self-assembly of semiconducting metal oxide nanoparticles with a block copolymer. <i>Chemical Communications</i> , 2012, 48, 11115.	2.2	14
3443	A fluorene-modified porphyrin for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2012, 48, 4329.	2.2	72
3444	Structure and Activity of Photochemically Deposited $\alpha$ -CoPi-Oxygen Evolving Catalyst on Titania. <i>ACS Catalysis</i> , 2012, 2, 2150-2160.	5.5	60
3445	Photocurrent of a single photosynthetic protein. <i>Nature Nanotechnology</i> , 2012, 7, 673-676.	15.6	106
3446	3D branched nanowire heterojunction photoelectrodes for high-efficiency solar water splitting and H <sub>2</sub> generation. <i>Nanoscale</i> , 2012, 4, 1515.	2.8	167
3447	Zn-Doped p-Type Gallium Phosphide Nanowire Photocathodes from a Surfactant-Free Solution Synthesis. <i>Nano Letters</i> , 2012, 12, 5407-5411.	4.5	105
3448	Measurement of laser activated electron tunneling from semiconductor zinc oxide to adsorbed organic molecules by a matrix assisted laser desorption ionization mass spectrometer. <i>Analytica Chimica Acta</i> , 2012, 729, 45-53.	2.6	23
3449	Novel mesoporous Zn <sub>x</sub> Cd <sub>1-x</sub> S nanoparticles as highly efficient photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 11-20.	10.8	57
3450	Preparation and tribological properties of stearic acid-modified hierarchical anatase TiO <sub>2</sub> microcrystals. <i>Applied Surface Science</i> , 2012, 258, 2778-2782.	3.1	44
3451	A periodic DFT study on binding of Pd, Pt and Au on the anatase TiO <sub>2</sub> (001) surface and adsorption of CO on the TiO <sub>2</sub> surface-supported Pd, Pt and Au. <i>Applied Surface Science</i> , 2012, 258, 3298-3301.	3.1	43

#	ARTICLE	IF	CITATIONS
3452	Study on calcination of bi-layered films produced by anodizing iron in dimethyl sulfoxide electrolyte. Applied Surface Science, 2012, 258, 3321-3327.	3.1	5
3453	Tuning electronic structure and photocatalytic properties by Ag incorporated on (001) surface of anatase TiO <sub>2</sub> . Applied Surface Science, 2012, 258, 4806-4812.	3.1	24
3454	Urea as a long-term stable alternative to guanidium thiocyanate additive in dye-sensitized solar cell. Applied Surface Science, 2012, 258, 8915-8918.	3.1	13
3455	Photo-induced properties of non-annealed anatase TiO <sub>2</sub> mesoporous film prepared by anodizing in the hot phosphate/glycerol electrolyte. Applied Surface Science, 2012, 258, 9810-9815.	3.1	11
3456	Synthesis and characterization of urea-containing imidazolium iodide electrolyte for dye-sensitized solar cells. Journal of Industrial and Engineering Chemistry, 2012, 18, 1499-1503.	2.9	5
3457	Graphene application as a counter electrode material for dye-sensitized solar cell. Materials Letters, 2012, 86, 96-99.	1.3	46
3458	Cellulose acetate fibers covered by CdS nanoparticles for hybrid solar cell applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1491-1496.	1.7	31
3459	Hybrid cells for simultaneously harvesting multi-type energies for self-powered micro/nanosystems. Nano Energy, 2012, 1, 259-272.	8.2	97
3460	Energy harvesting based on semiconducting piezoelectric ZnO nanostructures. Nano Energy, 2012, 1, 342-355.	8.2	346
3461	Photosensitization of TiO <sub>2</sub> nanorods with CdS quantum dots for photovoltaic applications: A wet-chemical approach. Nano Energy, 2012, 1, 440-447.	8.2	85
3462	One-dimensional nanostructured oxides for thermoelectric applications and excitonic solar cells. Nano Energy, 2012, 1, 372-390.	8.2	41
3463	GaN/ZnO superlattice nanowires as photocatalyst for hydrogen generation: A first-principles study on electronic and magnetic properties. Nano Energy, 2012, 1, 488-493.	8.2	60
3464	Dye-cosensitized graphene/Pt photocatalyst for high efficient visible light hydrogen evolution. International Journal of Hydrogen Energy, 2012, 37, 10564-10574.	3.8	121
3465	Electrospun TiO <sub>2</sub> /SnO <sub>2</sub> nanofibers with innovative structure and chemical properties for highly efficient photocatalytic H <sub>2</sub> generation. International Journal of Hydrogen Energy, 2012, 37, 10575-10584.	3.8	61
3466	Synthesis and characterization of TiO <sub>2</sub> /CdS core-shell nanorod arrays and their photoelectrochemical property. Journal of Alloys and Compounds, 2012, 523, 139-145.	2.8	68
3467	Photoelectric properties of cystine-modified nano-TiO <sub>2</sub> with visible-light response. Journal of Alloys and Compounds, 2012, 523, 22-24.	2.8	4
3468	A new thiocyanate-free cyclometallated ruthenium complex for dye-sensitized solar cells: Beneficial effects of substitution on the cyclometallated ligand. Journal of Organometallic Chemistry, 2012, 714, 88-93.	0.8	38
3469	Aggregation behavior of differently substituted Ru(II)-complex dyes as sensitizers for electrodeposited ZnO solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 242, 67-71.	2.0	7

#	ARTICLE	IF	CITATIONS
3470	A combined experimental and theoretical study of natural betalain pigments used in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 240, 5-13.	2.0	62
3471	TiO <sub>2</sub> films with rich bulk oxygen vacancies prepared by electrospinning for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 214, 244-250.	4.0	54
3472	Electrochemical and structural analysis of Al-doped ZnO nanorod arrays in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 214, 159-165.	4.0	47
3473	Ionic liquid diffusion properties in tetrapod-like ZnO photoanode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 216, 330-336.	4.0	13
3474	Enhanced performance for dye-sensitized solar cells based on spherical TiO <sub>2</sub> nanorod-aggregate light-scattering layer. <i>Journal of Power Sources</i> , 2012, 218, 280-285.	4.0	59
3475	The adsorption and reactions of SiCl <sub>x</sub> (x=0-4) on hydroxylated TiO <sub>2</sub> anatase (101) surface: A computational study on the functionalization of titania with Cl <sub>2</sub> Si(O)O adsorbate. <i>Computational and Theoretical Chemistry</i> , 2012, 993, 45-52.	1.1	9
3476	Band gap engineering of compensated (N, H) and (C, 2H) codoped anatase TiO <sub>2</sub> : A first-principles calculation. <i>Chemical Physics Letters</i> , 2012, 539-540, 175-179.	1.2	26
3477	Functionalized electrophoretic deposition of CdSe quantum dots onto TiO <sub>2</sub> electrode for photovoltaic application. <i>Chemical Physics Letters</i> , 2012, 539-540, 197-203.	1.2	21
3478	Upright-standing SnO <sub>2</sub> nanowalls: Fabrication, dual-photosensitization and photovoltaic properties. <i>Chemical Physics Letters</i> , 2012, 542, 66-69.	1.2	11
3479	Effect of an experimental zirconia-silica coating technique on micro tensile bond strength of zirconia in different priming conditions. <i>Dental Materials</i> , 2012, 28, e127-e134.	1.6	56
3480	Analysis and characterization of coordination compounds by resonance Raman spectroscopy. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1479-1508.	9.5	95
3481	Photo-oxidizing Rull complexes and light: Targeting biomolecules via photoadditions. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1569-1582.	9.5	51
3482	Growth and characterization of nanospikes decorated ZnO sheets and their solar cell application. <i>Chemical Engineering Journal</i> , 2012, 195-196, 307-313.	6.6	56
3483	First-principles calculations of a corrugated anatase TiO <sub>2</sub> surface. <i>Computational Materials Science</i> , 2012, 51, 78-82.	1.4	3
3484	Study of Photo-cathode Materials for Tandem Photoelectrochemical Cell for Direct Water Splitting. <i>Energy Procedia</i> , 2012, 22, 10-14.	1.8	5
3485	TaO <sub>x</sub> N <sub>y</sub> Sputtered Photoanodes For Solar Water Splitting. <i>Energy Procedia</i> , 2012, 22, 119-126.	1.8	11
3486	Photocatalytic Splitting of Water into Hydrogen and Oxygen on Organic Dye Modified KTa(Zr)O <sub>3</sub> Catalyst. <i>Energy Procedia</i> , 2012, 22, 53-60.	1.8	12
3487	Synthesis and Characterization of La (Ti,Nb)(O,N) <sub>3</sub> for Photocatalytic Water Oxidation. <i>Energy Procedia</i> , 2012, 22, 41-47.	1.8	4

#	ARTICLE	IF	CITATIONS
3488	Front side illuminated dye-sensitized solar cells using anodic TiO <sub>2</sub> mesoporous layers grown on FTO-glass. <i>Electrochemistry Communications</i> , 2012, 22, 157-161.	2.3	12
3489	Controlling electron transport rate and recombination process of TiO <sub>2</sub> dye-sensitized solar cells by design of double-layer films with different arrangement modes. <i>Electrochimica Acta</i> , 2012, 78, 384-391.	2.6	50
3490	Effects of TiCl <sub>4</sub> Treatment of Nanoporous TiO <sub>2</sub> Films on Morphology, Light Harvesting, and Charge-Carrier Dynamics in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21285-21290.	1.5	131
3491	A Natural Vanishing Act: The Enzyme-Catalyzed Degradation of Carbon Nanomaterials. <i>Accounts of Chemical Research</i> , 2012, 45, 1770-1781.	7.6	141
3492	Plasmon-Enhanced Photocatalytic Activity of Iron Oxide on Gold Nanopillars. <i>ACS Nano</i> , 2012, 6, 234-240.	7.3	278
3493	Generation of fuel from CO <sub>2</sub> saturated liquids using a p-Si nanowire $\alpha$ -n-TiO <sub>2</sub> nanotube array photoelectrochemical cell. <i>Nanoscale</i> , 2012, 4, 2245.	2.8	78
3494	In Situ Growth of a ZnO Nanowire Network within a TiO <sub>2</sub> Nanoparticle Film for Enhanced Dye-Sensitized Solar Cell Performance. <i>Advanced Materials</i> , 2012, 24, 5850-5856.	11.1	218
3497	p-Type InP Nanopillar Photocathodes for Efficient Solar-Driven Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10760-10764.	7.2	245
3498	Water Oxidation Using a Particulate BaZrO <sub>3</sub> -BaTaO <sub>2</sub> N Solid-Solution Photocatalyst That Operates under a Wide Range of Visible Light. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9865-9869.	7.2	125
3499	Anatase TiO <sub>2</sub> Mesocrystals Enclosed by (001) and (101) Facets: Synergistic Effects between Ti <sup>3+</sup> and Facets for Their Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 12584-12589.	1.7	65
3500	Spiky Mesoporous Anatase Titania Beads: A Metastable Ammonium Titanate-Mediated Synthesis. <i>Chemistry - A European Journal</i> , 2012, 18, 13762-13769.	1.7	27
3501	The Origin of Higher Open-Circuit Voltage in Zn-Doped TiO <sub>2</sub> Nanoparticle-Based Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2012, 13, 3731-3737.	1.0	47
3502	Platinum-Free Catalysts as Counter Electrodes in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2012, 5, 1343-1357.	3.6	194
3503	Room Temperature Solid-State Synthesis of a Conductive Polymer for Applications in Stable I <sub>2</sub> -Free Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2012, 5, 2173-2180.	3.6	18
3504	Synthesis of Various Sized CuInS <sub>2</sub> Quantum Dots and Their Photovoltaic Properties as Sensitizers for TiO <sub>2</sub> Photoanodes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5239-5244.	1.0	42
3505	Mild Chemical and Biological Synthesis of Donor-Acceptor Flanked Reporter Stilbenes: Demonstration of a Physiological Wittig Olefination Reaction. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6127-6131.	1.2	10
3506	Relationship between dye-iodine binding and cell voltage in dye-sensitized solar cells: A quantum-mechanical look. <i>Journal of Computational Chemistry</i> , 2012, 33, 2492-2497.	1.5	16
3507	A Review of Photocatalysis using Self-Organized TiO <sub>2</sub> Nanotubes and Other Ordered Oxide Nanostructures. <i>Small</i> , 2012, 8, 3073-3103.	5.2	606

#	ARTICLE	IF	CITATIONS
3508	Vapor-Phase Hydrothermal Transformation of $\text{HTiOF}_3$ Intermediates into {001} Faceted Anatase Single-Crystalline Nanosheets. <i>Small</i> , 2012, 8, 3664-3673.	5.2	56
3509	Non-Corner-Capped Discrete T4 Cluster Stabilized by a Metal-Bipyridine Complex. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 2498-2502.	0.6	3
3510	Preparation and study of microstructures, optical properties and oscillator parameters of titanium (IV) oxide ( $\text{TiO}_2$ ) film. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012, 113, 197-203.	0.2	5
3511	DFT study of noble metal impurities on $\text{TiO}_2(110)$ . <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	12
3512	The heterojunction effects of $\text{TiO}_2$ nanotubes fabricated by atomic layer deposition on photocarrier transportation direction. <i>Nanoscale Research Letters</i> , 2012, 7, 231.	3.1	30
3513	CdS nanoparticles sensitization of Al-doped ZnO nanorod array thin film with hydrogen treatment as an ITO/FTO-free photoanode for solar water splitting. <i>Nanoscale Research Letters</i> , 2012, 7, 593.	3.1	31
3514	Highly catalytic cross-stacked superaligned carbon nanotube sheets for iodine-free dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22756.	6.7	26
3516	Mesoporous Dye-Sensitized Solar Cells. , 2012, , 481-496.		2
3517	Photoinduced electron transfer processes in dye-semiconductor systems with different spacer groups. <i>Journal of Chemical Physics</i> , 2012, 137, 22A529.	1.2	41
3518	Computational Molecular Nanoscience Study of the Properties of Copper Complexes for Dye-Sensitized Solar Cells. <i>International Journal of Molecular Sciences</i> , 2012, 13, 16005-16019.	1.8	25
3519	Adsorption of organic dyes on $\text{TiO}_2$ surfaces in dye-sensitized solar cells: interplay of theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15963.	1.3	151
3520	Catalytic water oxidation at single metal sites. <i>Energy and Environmental Science</i> , 2012, 5, 8134.	15.6	226
3521	Coumarin derivatives for dye sensitized solar cells: a TD-DFT study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 225-233.	1.3	193
3522	Photoluminescence of $\text{TiO}_2$ : Effect of UV Light and Adsorbed Molecules on Surface Band Structure. <i>Journal of the American Chemical Society</i> , 2012, 134, 324-332.	6.6	147
3523	Dye-Sensitized Photoelectrochemical Cells. , 2012, , 479-542.		17
3524	Studies of the Di-iron(VI) Intermediate in Ferrate-Dependent Oxygen Evolution from Water. <i>Journal of the American Chemical Society</i> , 2012, 134, 15371-15386.	6.6	86
3525	Organic dyes containing fluorene-substituted indoline core for zinc oxide dye-sensitized solar cell. <i>RSC Advances</i> , 2012, 2, 2721.	1.7	62
3526	Wave Function Engineering for Efficient Extraction of up to Nineteen Electrons from One CdSe/CdS Quasi-Type II Quantum Dot. <i>Journal of the American Chemical Society</i> , 2012, 134, 4250-4257.	6.6	205

#	ARTICLE	IF	CITATIONS
3527	Raman Investigation of Nanosized TiO <sub>2</sub> : Effect of Crystallite Size and Quantum Confinement. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8792-8797.	1.5	269
3528	Density functional theory characterization and design of high-performance diarylamine-fluorenedyes with different Ì€ spacers for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 568-576.	6.7	355
3529	Selective synthesis and structural stability of anatase and rutile Ti <sub>1-x</sub> Fe <sub>x</sub> O <sub>2</sub> nanoparticles. <i>Journal of the Korean Physical Society</i> , 2012, 61, 222-226.	0.3	5
3530	One bipyridine and triple advantages: tailoring ancillary ligands in ruthenium complexes for efficient sensitization in dye solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18757.	6.7	21
3531	High-efficiency cascade CdS/CdSe quantum dot-sensitized solar cells based on hierarchical tetrapod-like ZnO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13539.	1.3	46
3532	Hole mediated coupling in Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> for visible light photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4891.	1.3	28
3533	Direct Observation of Two Electron Holes in a Hematite Photoanode during Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16870-16875.	1.5	137
3534	Efficient thiocyanate-free sensitizer: a viable alternative to N719 dye for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2012, 41, 7604.	1.6	27
3535	A simple triaryl amine-based dual functioned co-adsorbent for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 3786.	6.7	65
3536	Photovoltaic Hybrid Films with Polythiophene Growing on Monoclinic WO <sub>3</sub> Semiconductor Substrates. <i>Langmuir</i> , 2012, 28, 4829-4834.	1.6	23
3537	A panchromatic anthracene-fused porphyrin sensitizer for dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 6846.	1.7	59
3538	Visible light responsive titania-based nanostructures for photocatalytic, photovoltaic and photoelectrochemical applications. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2012, 3, 023001.	0.7	11
3539	Transmittances of Terahertz Pulses through Organic Copper Phthalocyanine Films on Si under Optical Carrier Excitation. <i>Applied Physics Express</i> , 2012, 5, 072402.	1.1	14
3540	Dye-sensitized solar cells based on a nanoparticle/nanotube bilayer structure and their equivalent circuit analysis. <i>Nanoscale</i> , 2012, 4, 964-969.	2.8	70
3541	Crystal phase-controlled synthesis of Cu <sub>2</sub> FeSnS <sub>4</sub> nanocrystals with a band gap of around 1.5 eV. <i>Chemical Communications</i> , 2012, 48, 4956.	2.2	124
3542	Transparent flexible Pt counter electrodes for high performance dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 22155.	6.7	39
3543	Hollow anatase TiO <sub>2</sub> porous microspheres with V-shaped channels and exposed (101) facets: Anisotropic etching and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 6002.	6.7	49
3544	Effect of TiO <sub>2</sub> morphology on photovoltaic performance of dye-sensitized solar cells: nanoparticles, nanofibers, hierarchical spheres and ellipsoid spheres. <i>Journal of Materials Chemistry</i> , 2012, 22, 7910.	6.7	162



#	ARTICLE	IF	CITATIONS
3545	General and Controllable Synthesis Strategy of Metal Oxide/TiO <sub>2</sub> Hierarchical Heterostructures with Improved Lithium-Ion Battery Performance. <i>Scientific Reports</i> , 2012, 2, 701.	1.6	195
3546	Screened hybrid density functional study on Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> for visible light photocatalysis. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	31
3547	CuInS <sub>2</sub> Nanocrystals/PEDOT:PSS Composite Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6242-6246.	4.0	56
3548	Power conversion efficiency enhancement based on the bio-inspired hierarchical antireflection layer in dye sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 4464.	2.8	20
3550	Improvement in the power conversion efficiency of thiocyanate-free Ru(ii) based dye sensitized solar cells by cosensitization with a metal-free dye. <i>Journal of Materials Chemistry</i> , 2012, 22, 18788.	6.7	27
3551	Hematite/Si Nanowire Dual-Absorber System for Photoelectrochemical Water Splitting at Low Applied Potentials. <i>Journal of the American Chemical Society</i> , 2012, 134, 12406-12409.	6.6	307
3552	Computational screening of dopants for photocatalytic two-electron reduction of CO <sub>2</sub> on anatase (101) surfaces. <i>Energy and Environmental Science</i> , 2012, 5, 6196.	15.6	138
3553	Energy Level Shifts in Spiro-OMeTAD Molecular Thin Films When Adding Li-TFSI. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26300-26305.	1.5	134
3554	Quantitative Analysis of Valence Photoemission Spectra and Quasiparticle Excitations at Chromophore-Semiconductor Interfaces. <i>Physical Review Letters</i> , 2012, 109, 116801.	2.9	26
3555	Prediction of solid-aqueous equilibria: Scheme to combine first-principles calculations of solids with experimental aqueous states. <i>Physical Review B</i> , 2012, 85, .	1.1	342
3556	Development of Low-Temperature Sintering Technique for Dye-Sensitized Solar Cells Combined with Dielectric Barrier Discharge Treatment. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 056201.	0.8	7
3557	Photoelectrochemical study of oxygen deficient TiO <sub>2</sub> nanowire arrays with CdS quantum dot sensitization. <i>Nanoscale</i> , 2012, 4, 1463.	2.8	110
3558	Protonated Carboxyl Anchor for Stable Adsorption of Ru N749 Dye (Black Dye) on a TiO <sub>2</sub> Anatase (101) Surface. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 472-477.	2.1	48
3559	Photo-induced electron transfer in supramolecular materials of titania nanostructures and cytochrome c. <i>RSC Advances</i> , 2012, 2, 7417.	1.7	11
3560	Facet-dependent activity of bismuth sulfide as low-cost counter-electrode materials for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 18572.	6.7	46
3561	<i>Physical Techniques</i> , 2012, , 205-253.		1
3562	Molecular modification of coumarin dyes for more efficient dye sensitized solar cells. <i>Journal of Chemical Physics</i> , 2012, 136, 194702.	1.2	36
3563	Green synthesis of shape-defined anatase TiO <sub>2</sub> nanocrystals wholly exposed with {001} and {100} facets. <i>Chemical Communications</i> , 2012, 48, 11736.	2.2	63

#	ARTICLE	IF	CITATIONS
3564	One-Step, Surfactant-Free Hydrothermal Method for Syntheses of Mesoporous TiO <sub>2</sub> Nanoparticle Aggregates and Their Applications in High Efficiency Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2012, 24, 3255-3262.	3.2	53
3565	Growth mechanism of palladium clusters on rutile TiO <sub>2</sub> (110) surface. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 544-555.	1.8	10
3566	Solution Combustion Synthesis of TiO <sub>2</sub> and Its Use for Fabrication of Photoelectrode for Dye-sensitized Solar Cell. <i>Journal of Materials Science and Technology</i> , 2012, 28, 713-722.	5.6	35
3567	Effect of Annealing Temperature on $\text{TiO}_2$ -Based Thin-Film-Transistor Performance. <i>IEEE Electron Device Letters</i> , 2012, 33, 1009-1011.	2.2	21
3568	Sustainable hydrogen production options and the role of IAHE. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16266-16286.	3.8	165
3569	Hybrid density functional study on SrTiO <sub>3</sub> for visible light photocatalysis. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11611-11617.	3.8	67
3570	The design of a hierarchical photocatalyst inspired by natural forest and its usage on hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13998-14008.	3.8	64
3571	The stability of illuminated p-GaN/P2 semiconductor photoelectrode. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14009-14014.	3.8	14
3572	Effects of tethering alkyl chains for amphiphilic ruthenium complex dyes on their adsorption to titanium oxide and photovoltaic properties. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 359-365.	5.0	21
3573	Fluoroalkyl end-capped vinyltrimethoxysilane oligomer/anatase titanium oxide nanocomposites possessing photocatalytic activity even after calcination at 1000Å°C. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 141-145.	5.0	14
3574	One-step fabrication of N-doped mesoporous TiO <sub>2</sub> nanoparticles by self-assembly for photocatalytic water splitting under visible light. <i>Applied Energy</i> , 2012, 100, 148-154.	5.1	86
3575	Rapid dye-sensitized solar cell working electrode preparation using far infrared rapid thermal annealing. <i>Applied Energy</i> , 2012, 100, 138-143.	5.1	12
3576	Preparation of highly porous TiO <sub>2</sub> nanofibers for dye-sensitized solar cells (DSSCs) by electro-spinning. <i>Applied Surface Science</i> , 2012, 261, 343-352.	3.1	57
3577	First principles study of band gap of Cu doped ZnO single-wall nanotube modulated by impurity concentration and concentration gradient. <i>Computational Materials Science</i> , 2012, 65, 175-181.	1.4	19
3578	Fluorene-based organic dyes containing acetylene linkage for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2012, 95, 523-533.	2.0	30
3579	Anatase TiO <sub>2</sub> sol as a low reactive precursor to form the photoanodes with compact films of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 79, 182-188.	2.6	16
3580	Photovoltaic performance of dye-sensitized solar cells with various MWCNT counter electrode structures produced by different coating methods. <i>Electrochimica Acta</i> , 2012, 80, 100-107.	2.6	43
3581	Pulse potentiostatic electropolymerization of high performance PEDOT counter electrodes for Pt-free dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 83, 221-226.	2.6	57

#	ARTICLE	IF	CITATIONS
3582	Visible-light photocatalytic degradation of methyl orange by CdS@TiO <sub>2</sub> @Au composites synthesized via microwave-assisted reaction. <i>Electrochimica Acta</i> , 2012, 83, 216-220.	2.6	44
3583	Electrodeposition of high performance PEDOT/Ti counter electrodes on Ti meshes for large-area flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 85, 432-437.	2.6	36
3584	Survey of photovoltaic industry and policy in Germany and China. <i>Energy Policy</i> , 2012, 51, 20-37.	4.2	164
3585	Liquid nitrogen quenching effects of P3HT:PCBM bulk heterojunction photovoltaic cells. <i>Synthetic Metals</i> , 2012, 162, 1944-1947.	2.1	0
3586	Analysis of current loss from a series-parallel combination of dye-sensitized solar cells using electrochemical impedance spectroscopy. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 568-574.	1.0	18
3587	A Novel Composite Polysaccharide/Inorganic Oxide Electrolyte for High Efficiency Quasi-solid-state Dye-sensitized Solar Cell. <i>Procedia Engineering</i> , 2012, 36, 13-18.	1.2	5
3588	Improved performance of dye-sensitized solar cells with compact TiO <sub>2</sub> blocking layer prepared using low-temperature reactive ICP-assisted DC magnetron sputtering. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1807-1812.	2.9	29
3589	Substituent effects on zinc phthalocyanine derivatives: A theoretical calculation and screening of sensitizer candidates for dye-sensitized solar cells. <i>Journal of Molecular Graphics and Modelling</i> , 2012, 38, 82-89.	1.3	25
3590	Properties and doping limits of amorphous oxide semiconductors. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2437-2442.	1.5	37
3591	Morphology control of BiVO <sub>4</sub> photocatalysts: pH optimization vs. self-organization. <i>Materials Chemistry and Physics</i> , 2012, 135, 457-466.	2.0	42
3592	One-step synthesis of Fe-N-S-tri-doped TiO <sub>2</sub> catalyst and its enhanced visible light photocatalytic activity. <i>Materials Research Bulletin</i> , 2012, 47, 3804-3809.	2.7	47
3593	Reliability study of dye-sensitized solar cells by means of solar simulator and white LED. <i>Microelectronics Reliability</i> , 2012, 52, 2495-2499.	0.9	12
3594	Nanocrystalline TiO <sub>2</sub> film based photoelectrochemical cell as self-powered UV-photodetector. <i>Nano Energy</i> , 2012, 1, 640-645.	8.2	170
3595	Flexible fiber-shaped CuInSe <sub>2</sub> solar cells with single-wire-structure: Design, construction and performance. <i>Nano Energy</i> , 2012, 1, 769-776.	8.2	21
3596	Facile Synthesis of Mesoporous Tin Oxide Spheres and Their Applications in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20140-20145.	1.5	71
3597	Sol-gel synthesis of Au/N-TiO <sub>2</sub> composite for photocatalytic reduction of Cr(vi). <i>RSC Advances</i> , 2012, 2, 3823.	1.7	31
3598	Nanostructure-based WO <sub>3</sub> photoanodes for photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7894.	1.3	409
3599	Dynamics of photogenerated holes in surface modified I±-Fe <sub>2</sub> O <sub>3</sub> photoanodes for solar water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15640-15645.	3.3	413

#	ARTICLE	IF	CITATIONS
3600	Progress in graphene-based photoactive nanocomposites as a promising class of photocatalyst. <i>Nanoscale</i> , 2012, 4, 5814.	2.8	143
3601	Multilayer TiO <sub>2</sub> nanorod cloth/nanorod array electrode for dye-sensitized solar cells and self-powered UV detectors. <i>Nanoscale</i> , 2012, 4, 3350.	2.8	66
3602	Optically Transparent Cathode for Co(III/II) Mediated Dye-Sensitized Solar Cells Based on Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6999-7006.	4.0	111
3603	Anodic TiO <sub>2</sub> Nanotube Arrays for Dye-Sensitized Solar Cells Characterized by Electrochemical Impedance Spectroscopy. <i>Ceramics International</i> , 2012, 38, 6253-6266.	2.3	17
3604	Phenothiazine-based organic dyes with two anchoring groups on TiO <sub>2</sub> for highly efficient visible light-induced water splitting. <i>Chemical Communications</i> , 2012, 48, 11431.	2.2	63
3605	Study of self-heating phenomenon and its resultant effect on ultrafast gasochromic coloration of Pt-WO <sub>3</sub> nanowire films. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 824-832.	4.0	30
3606	Study of the catalyst poisoning and reactivation of Pt nanoparticles on the surface of WO <sub>3</sub> nanowire in gasochromic coloration. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 1117-1124.	4.0	23
3607	Temperature-Stable and Optically Transparent Thin-Film Zinc Oxide Aerogel Electrodes As Model Systems for 3D Interpenetrating Organic-Inorganic Heterojunction Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6522-6529.	4.0	12
3608	New Insights into Water Splitting at Mesoporous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Films: A Study by Modulated Transmittance and Impedance Spectroscopies. <i>Journal of the American Chemical Society</i> , 2012, 134, 1228-1234.	6.6	162
3609	Enhanced visible-light photocatalytic H <sub>2</sub> -production performance of multi-armed CdS nanorods. <i>RSC Advances</i> , 2012, 2, 11829.	1.7	100
3610	Ultrafast Growth of Highly Ordered Anodic TiO <sub>2</sub> Nanotubes in Lactic Acid Electrolytes. <i>Journal of the American Chemical Society</i> , 2012, 134, 11316-11318.	6.6	133
3611	Coupled Electron-Hole Quantum Dynamics on a Dye-Sensitized TiO <sub>2</sub> Semiconductors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21169-21178.	1.5	38
3612	Shell Thickness Dependent Photocatalytic Properties of ZnO/CdS Core-Shell Nanorods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23653-23662.	1.5	249
3613	Functionalization of SnO <sub>2</sub> Photoanode through Mg-Doping and TiO <sub>2</sub> -Coating to Synergically Boost Dye-Sensitized Solar Cell Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6261-6265.	4.0	37
3614	Towards Artificial Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 607-622.	1.0	0
3615	Enhanced Charge Separation in Nanostructured TiO <sub>2</sub> Materials for Photocatalytic and Photovoltaic Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 11841-11849.	1.8	94
3616	A facile method for fabricating TiO <sub>2</sub> @mesoporous carbon and three-layered nanocomposites. <i>Nanotechnology</i> , 2012, 23, 325602.	1.3	22
3617	Improved photocurrents for p-type dye-sensitized solar cells using nano-structured nickel(ii) oxide microballs. <i>Energy and Environmental Science</i> , 2012, 5, 8896.	15.6	99

#	ARTICLE	IF	CITATIONS
3618	Dye-Sensitized Solar Cells with a Potential for Direct Electron Injection and a High Extinction Coefficient: Synthesis, Characterization, and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25653-25663.	1.5	153
3619	Upconversion-powered photoelectrochemistry. <i>Chemical Communications</i> , 2012, 48, 209-211.	2.2	261
3620	Ultrathin films on copper(i) oxide water splitting photocathodes: a study on performance and stability. <i>Energy and Environmental Science</i> , 2012, 5, 8673.	15.6	401
3621	High performance dye-sensitized solar cells with record open circuit voltage using tin oxide nanoflowers developed by electrospinning. <i>Energy and Environmental Science</i> , 2012, 5, 5401-5407.	15.6	133
3622	Photo-induced Charge Separation across the Graphene/TiO <sub>2</sub> Interface Is Faster than Energy Losses: A Time-Domain Analysis. <i>Journal of the American Chemical Society</i> , 2012, 134, 14238-14248.	6.6	226
3623	Direct oxygen imaging in titania nanocrystals. <i>Nanotechnology</i> , 2012, 23, 335706.	1.3	5
3624	How should you measure your excitonic solar cells?. <i>Energy and Environmental Science</i> , 2012, 5, 6513.	15.6	187
3625	Gold Nanoparticles Located at the Interface of Anatase/Rutile TiO <sub>2</sub> Particles as Active Plasmonic Photocatalysts for Aerobic Oxidation. <i>Journal of the American Chemical Society</i> , 2012, 134, 6309-6315.	6.6	610
3626	Size-Controlled Anatase Titania Single Crystals with Octahedron-like Morphology for Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2012, 6, 10862-10873.	7.3	85
3627	Photo-induced electron transfer study of D-π-A sensitizers with different type of anchoring groups for dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 6011.	1.7	8
3628	Effect of polyphenyl-substituted ethylene end-capped groups in metal-free organic dyes on performance of dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 7788.	1.7	40
3629	Hierarchical TiO <sub>2</sub> @Si nanowire architecture with photoelectrochemical activity under visible light illumination. <i>Energy and Environmental Science</i> , 2012, 5, 7918.	15.6	57
3630	Surface ion transfer growth of ternary CdS <sub>1-x</sub> Se <sub>x</sub> quantum dots and their electron transport modulation. <i>Nanoscale</i> , 2012, 4, 7690.	2.8	36
3632	Enhanced visible-light photocatalytic degradation of methyl orange by BiPO <sub>4</sub> @CdS composites synthesized using a microwave-assisted method. <i>RSC Advances</i> , 2012, 2, 12706.	1.7	41
3633	Growth of ZnO nanowires on fibers for one-dimensional flexible quantum dot-sensitized solar cells. <i>Nanotechnology</i> , 2012, 23, 075402.	1.3	48
3634	Glass-Encapsulated Light Harvesters: More Efficient Dye-Sensitized Solar Cells by Deposition of Self-Aligned, Conformal, and Self-Limited Silica Layers. <i>Journal of the American Chemical Society</i> , 2012, 134, 9537-9540.	6.6	103
3635	Photoelectrochemical Measurements. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2012, , 69-117.	0.3	13
3636	A solid-state CdSe quantum dot sensitized solar cell based on a quaterthiophene as a hole transporting material. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5801.	1.3	37

#	ARTICLE	IF	CITATIONS
3637	Surface modification of anatase nanoparticles with fused ring catechol type ligands: a combined DFT and experimental study of optical properties. <i>Nanoscale</i> , 2012, 4, 1612.	2.8	57
3638	Responsive and Nonequilibrium Nanomaterials. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2103-2111.	2.1	59
3639	Wavefunction engineering in quantum confined semiconductor nanoheterostructures for efficient charge separation and solar energy conversion. <i>Energy and Environmental Science</i> , 2012, 5, 9406.	15.6	120
3642	Novel Micropixelation Strategy to Stabilize Semiconductor Photoelectrodes for Solar Water Splitting Systems. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19262-19267.	1.5	5
3643	Optogenetics in the nonhuman primate. <i>Progress in Brain Research</i> , 2012, 196, 215-233.	0.9	58
3644	Nanostructured Titanium Nitride/PEDOT:PSS Composite Films As Counter Electrodes of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1087-1092.	4.0	105
3645	A facile synthetic approach for copper iron sulfide nanocrystals with enhanced thermoelectric performance. <i>Nanoscale</i> , 2012, 4, 6265.	2.8	90
3646	Theoretical studies of the structures and spectroscopic properties of the photoelectrochemical cell ruthenium sensitizers, C101 and J13. <i>Science China Chemistry</i> , 2012, 55, 398-408.	4.2	2
3647	Research and development of micro electret power generators. <i>Science China Technological Sciences</i> , 2012, 55, 581-587.	2.0	6
3648	Composite semiconductor quantum dots CdSe/CdS Co-sensitized TiO <sub>2</sub> nanorod array solar cells. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 876-880.	0.4	4
3649	Analysis and characterization of microstructures of a TiO <sub>2</sub> /bamboo charcoal composite and modified poplar veneer. <i>Forestry Studies in China</i> , 2012, 14, 240-245.	0.4	3
3650	Synthesis, Characterization of Hydrothermally Grown MWCNTs/TiO <sub>2</sub> Photoelectrodes and Their Visible Light Absorption Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, M15-M23.	0.9	76
3651	Band gap engineering in BiNbO <sub>4</sub> for visible-light photocatalysis. <i>Applied Physics Letters</i> , 2012, 100, 182102.	1.5	54
3652	Photovoltaic properties of corresponding dye sensitized solar cells: Effect of active sites of growth controller on TiO <sub>2</sub> nanostructures. <i>Solar Energy</i> , 2012, 86, 3397-3404.	2.9	69
3653	An investigation on structure and materials of laminated organic solar cell packaging. , 2012, , .		3
3654	Si/InGaN Core/Shell Hierarchical Nanowire Arrays and their Photoelectrochemical Properties. <i>Nano Letters</i> , 2012, 12, 1678-1682.	4.5	209
3655	Commercialization of dye sensitized solar cells: Present status and future research needs to improve efficiency, stability, and manufacturing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	0.9	131
3656	Ti-doped hematite nanostructures for solar water splitting with high efficiency. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	106

#	ARTICLE	IF	CITATIONS
3657	Bioinspired High-Potential Porphyrin Photoanodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4892-4902.	1.5	69
3658	Camphorsulfonic Acid-Doped Polyaniline Transparent Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22743-22748.	1.5	54
3659	Enhanced light harvesting efficiencies of bis(ferrocenylmethyl)-based sulfur rich sensitizers used in dye sensitized TiO <sub>2</sub> solar cells. <i>Dalton Transactions</i> , 2012, 41, 1373-1380.	1.6	31
3660	Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14567.	1.3	417
3661	Synthesis, characterization and photocatalytic activity of Cu-doped Zn/ZnO photocatalyst with carbon modification. <i>Journal of Materials Chemistry</i> , 2012, 22, 23780.	6.7	56
3662	Towards highly efficient photocatalysts using semiconductor nanoarchitectures. <i>Energy and Environmental Science</i> , 2012, 5, 6732.	15.6	400
3663	A facile way to prepare visible light driven tin oxide based photoanode and its photoelectrochemical water splitting properties. <i>Science Bulletin</i> , 2012, 57, 4229-4232.	1.7	0
3664	CdS buffer-layer free highly efficient ZnO-CdSe photoelectrochemical cells. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	26
3665	Improve photo-electron conversion efficiency of ZnO/CdS coaxial nanorods by p-type CdTe coating. <i>Nanotechnology</i> , 2012, 23, 485401.	1.3	23
3666	Chemically deposited TiO <sub>2</sub> /CdS bilayer system for photoelectrochemical properties. <i>Bulletin of Materials Science</i> , 2012, 35, 1181-1186.	0.8	13
3667	Facile synthesis of Au@TiO <sub>2</sub> core-shell hollow spheres for dye-sensitized solar cells with remarkably improved efficiency. <i>Energy and Environmental Science</i> , 2012, 5, 6914.	15.6	427
3668	A natural photoelectrochemical cell for water splitting: Implications for early Earth and Mars. <i>American Mineralogist</i> , 2012, 97, 1804-1807.	0.9	10
3669	Direct Visualization of Dye and Oligonucleotide Diffusion in Silica Filaments with Collinear Mesopores. <i>Nano Letters</i> , 2012, 12, 1354-1361.	4.5	23
3670	High-performance phosphide/carbon counter electrode for both iodide and organic redox couples in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 11121.	6.7	129
3671	Fabrication of flexible dye-sensitized solar cells with titanium dioxide thin films based on screen-printing technique. <i>Micro and Nano Letters</i> , 2012, 7, 1162-1165.	0.6	9
3672	Dye-sensitized solar cells using an anion-conducting polymer as a material of solid-state electrolyte. , 2012, , .		0
3673	Microwave-assisted synthesis of nanocrystalline TiO <sub>2</sub> for dye-sensitized solar cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
3674	Photophysical, electrochemical and photovoltaic properties of dye sensitized solar cells using a series of pyridyl functionalized porphyrin dyes. <i>RSC Advances</i> , 2012, 2, 12899.	1.7	76

#	ARTICLE	IF	CITATIONS
3675	Effect of Tin Doping on $\text{Fe}_2\text{O}_3$ Photoanodes for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15290-15296.	1.5	98
3676	Supersensitive, Ultrafast, and Broad-Band Light-Harvesting Scheme Employing Carbon Nanotube/ $\text{TiO}_2$ Core-Shell Nanowire Geometry. <i>ACS Nano</i> , 2012, 6, 6687-6692.	7.3	80
3677	Coating $\text{TiO}_2$ Anatase by Amorphous $\text{Al}_2\text{O}_3$ : Effects on Dyes Anchoring Through Carboxyl Groups. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4408-4415.	1.5	8
3678	<i>Ab initio</i> study of neutral ( $\text{TiO}_2$ ) <sub>n</sub> clusters and their interactions with water and transition metal atoms. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 305301.	0.7	27
3679	Porous copper zinc tin sulfide thin film as photocathode for double junction photoelectrochemical solar cells. <i>Chemical Communications</i> , 2012, 48, 3006.	2.2	89
3680	Glucose Aided Preparation of Tungsten Sulfide/Multi-Wall Carbon Nanotube Hybrid and Use as Counter Electrode in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6530-6536.	4.0	94
3681	Dye-Sensitized Photocathodes: Efficient Light-Stimulated Hole Injection into p-GaP Under Depletion Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 10670-10681.	6.6	54
3683	Effect of mixed solvent on structural, morphological, and optoelectrical properties of spin-coated $\text{TiO}_2$ thin films. <i>Ceramics International</i> , 2012, 38, 5843-5851.	2.3	25
3684	Elegant Approach to the Synthesis of a Unique Heteroleptic Cyclometalated Iridium(III)-Polyoxometalate Conjugate. <i>Organometallics</i> , 2012, 31, 35-38.	1.1	66
3685	Graphene-carbon nanotube composite as an effective conducting scaffold to enhance the photoelectrochemical water oxidation activity of a hematite film. <i>RSC Advances</i> , 2012, 2, 9415.	1.7	88
3686	New cubic perovskites for one- and two-photon water splitting using the computational materials repository. <i>Energy and Environmental Science</i> , 2012, 5, 9034.	15.6	211
3687	$\text{Co}_3\text{O}_4$ -Decorated Hematite Nanorods As an Effective Photoanode for Solar Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13884-13889.	1.5	141
3688	Enhanced Electron Transfer from the Excited Eosin Y to mpg- $\text{C}_3\text{N}_4$ for Highly Efficient Hydrogen Evolution under 550 nm Irradiation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19644-19652.	1.5	284
3689	Enhanced photovoltaic response of the first polyoxometalate-modified zinc oxide photoanode for solar cell application. <i>Journal of Materials Chemistry</i> , 2012, 22, 15050.	6.7	60
3690	Hierarchical $\text{TiO}_2$ microspheres: synthesis, structural control and their applications in dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 11629.	1.7	60
3691	Photonic crystal coupled plasmonic nanoparticle array for resonant enhancement of light harvesting and power conversion. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14334.	1.3	13
3692	Panchromic Cationic Iridium(III) Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 12560-12564.	1.9	40
3693	RASPT2/RASSCF vs Range-Separated/Hybrid DFT Methods: Assessing the Excited States of a Ru(II)bipyridyl Complex. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 203-213.	2.3	53



#	ARTICLE	IF	CITATIONS
3694	Enhanced Water Photolysis with Pt Metal Nanoparticles on Single Crystal TiO <sub>2</sub> Surfaces. <i>Langmuir</i> , 2012, 28, 7528-7534.	1.6	49
3695	The Effect of Geometric Structure on Photoluminescence Characteristics of 1-D TiO <sub>2</sub> Nanotubes and 2-D TiO <sub>2</sub> Films Fabricated by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2012, 159, D401-D405.	1.3	50
3696	Probe of NH <sub>3</sub> and CO Adsorption on the Very Outermost Surface of a Porous TiO <sub>2</sub> Adsorbent Using Photoluminescence Spectroscopy. <i>Langmuir</i> , 2012, 28, 5652-5659.	1.6	14
3697	Highly sensitive and pulse-like response toward ethanol of Nb doped TiO <sub>2</sub> nanorods based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 899-906.	4.0	53
3698	Enhanced photoelectrochemical properties of CuGa <sub>3</sub> Se <sub>5</sub> thin films for water splitting by the hydrogen mediated co-evaporation method. <i>Energy and Environmental Science</i> , 2012, 5, 6368-6374.	15.6	56
3700	Economical Pt-Free Catalysts for Counter Electrodes of Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 3419-3428.	6.6	798
3701	In Situ Growth of Co <sub>0.85</sub> Se and Ni <sub>0.85</sub> Se on Conductive Substrates as High-Performance Counter Electrodes for Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 10953-10958.	6.6	735
3702	Effect of Surface Protonation on Device Performance and Dye Stability of Dye-sensitized TiO <sub>2</sub> Solar Cell. <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 733-738.	0.6	3
3704	Effect of the electrolyte temperature on the formation and structure of porous anodic titania film. <i>Thin Solid Films</i> , 2012, 526, 41-46.	0.8	23
3705	Enlarging the application of potassium titanate nanowires as titanium source for preparation of TiO <sub>2</sub> nanostructures with tunable phases. <i>CrystEngComm</i> , 2012, 14, 3019.	1.3	20
3706	Toward a Quantitative Correlation between Microstructure and DSSC Efficiency: A Case Study of TiO <sub>2</sub> -N Nanoparticles in a Disordered Mesoporous Framework. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2581-2587.	1.5	53
3707	Emissive Osmium(II) Complexes Supported by N-Heterocyclic Carbene-based C <sup>+</sup> -Pincer Ligands and Aromatic Diimines. <i>Inorganic Chemistry</i> , 2012, 51, 8693-8703.	1.9	58
3708	A Ga <sub>2</sub> O <sub>3</sub> underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. <i>Faraday Discussions</i> , 2012, 155, 223-232.	1.6	95
3709	Template-free synthesis of a hierarchical flower-like platinum counter electrode and its application in dye-sensitized solar cells. <i>RSC Advances</i> , 2012, 2, 5034.	1.7	22
3710	Designed Architecture of Multiscale Porous TiO <sub>2</sub> Nanofibers for Dye-Sensitized Solar Cells Photoanode. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5287-5292.	4.0	87
3711	Quantum Dot Devices. , 2012, , .		13
3712	Vibrational spectroscopy as a probe of molecule-based devices. <i>Chemical Society Reviews</i> , 2012, 41, 1929-1946.	18.7	33
3713	Enhanced photoanode properties of epitaxial Ti doped $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> (0001) thin films. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	45

#	ARTICLE	IF	CITATIONS
3714	Charge transport properties in nanocomposite photoanodes of DSSCs: crucial role of electronic structure. EPJ Applied Physics, 2012, 57, 20401.	0.3	8
3715	Highly efficient and stable dye-sensitized solar cells based on SnO <sub>2</sub> nanocrystals prepared by microwave-assisted synthesis. Energy and Environmental Science, 2012, 5, 5392-5400.	15.6	154
3716	Photoelectrochemical Hydrogen Production. Kluwer International Series in Electronic Materials: Science and Technology, 2012, , .	0.3	383
3717	Photochemical Upconversion Enhanced Solar Cells: Effect of a Back Reflector. Australian Journal of Chemistry, 2012, 65, 480.	0.5	85
3718	Development of plasmonic semiconductor nanomaterials with copper chalcogenides for a future with sustainable energy materials. Energy and Environmental Science, 2012, 5, 5564-5576.	15.6	334
3719	LaTiO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> photoanodes with improved performance for solar water splitting. Chemical Communications, 2012, 48, 820-822.	2.2	64
3720	Electronic and Photocatalytic Properties of Ag <sub>3</sub> PC <sub>4</sub> (C = O, S). Tj ETQq0 0 0 rgBT /Overlock 10	1.5	64
3721	Enhanced Oxidation Reactivity of WO <sub>3</sub> (001) Surface through the Formation of Oxygen Radical Centers. Journal of Physical Chemistry C, 2012, 116, 5067-5075.	1.5	27
3722	Principles of Photoelectrochemical Cells. Kluwer International Series in Electronic Materials: Science and Technology, 2012, , 13-67.	0.3	59
3723	Modulating Semiconductor Surface Electronic Properties by Inorganic Peptide Binders Sequence Design. Journal of the American Chemical Society, 2012, 134, 20403-20411.	6.6	14
3724	COMPUTATIONAL SIMULATIONS OF NANOSTRUCTURED SOLAR CELLS. Nano LIFE, 2012, 02, 1230007.	0.6	3
3725	Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO <sub>2</sub> Nanorods Prepared by Oblique Angle Codeposition. Journal of Physical Chemistry C, 2012, 116, 5033-5041.	1.5	39
3726	Fluorous Molecules for Dye-Sensitized Solar Cells: Synthesis and Characterization of Fluorene-Bridged Donor/Acceptor Dyes with Bulky Perfluoroalkoxy Substituents. Journal of Physical Chemistry C, 2012, 116, 21190-21200.	1.5	32
3727	Modulating the assembly of organic dye molecules on titania nanocrystals via alkyl chain elongation for efficient mesoscopic cobalt solar cells. Physical Chemistry Chemical Physics, 2012, 14, 8282.	1.3	69
3728	Dominant Factors Governing the Rate Capability of a TiO <sub>2</sub> Nanotube Anode for High Power Lithium Ion Batteries. ACS Nano, 2012, 6, 8308-8315.	7.3	184
3729	Facile synthesis of visible light responsive V <sub>2</sub> O <sub>5</sub> /N-TiO <sub>2</sub> composite photocatalyst: enhanced hydrogen production and phenol degradation. Journal of Materials Chemistry, 2012, 22, 10695.	6.7	107
3730	Preparation and Characterization of Ni-Doped Materials for Photocurrent and Photocatalytic Applications. Scientific World Journal, The, 2012, 2012, 1-16.	0.8	171
3731	Substitution of Ethynyl-Thiophene Chromophores on Ruthenium Sensitizers: Influence on Thermal and Photovoltaic Performance of Dye-Sensitized Solar Cells. Advances in OptoElectronics, 2012, 2012, 1-10.	0.6	1

#	ARTICLE	IF	CITATIONS
3732	Electrochemical preparation of hematite nanostructured films for solar hydrogen production. EPJ Web of Conferences, 2012, 33, 02007.	0.1	3
3733	Nano-Clay Electrolyte for High Performance Dye-Sensitized Solar Cells. ECS Meeting Abstracts, 2012, , .	0.0	0
3734	Vibrational Spectroscopy of Complex Synthetic and Industrial Products. , 0, , .		0
3735	Advances in Photoelectrochemical Fuel Cell Research. , 2012, , .		2
3736	Potential Applications for Solar Photocatalysis: From Environmental Remediation to Energy Conversion. , 0, , .		9
3737	Fabrication and characterization of carbon-based counter electrodes prepared by electrophoretic deposition for dye-sensitized solar cells. Nanoscale Research Letters, 2012, 7, 53.	3.1	45
3738	Electrochemistry of titanium dioxide: some aspects and highlights. Chemical Record, 2012, 12, 131-142.	2.9	118
3739	Cold isostatic pressing technique for producing highly efficient flexible dye-sensitized solar cells on plastic substrates. Progress in Photovoltaics: Research and Applications, 2012, 20, 321-332.	4.4	67
3740	Processing and characterization of a TiO <sub>2</sub> paste based on small particle size powders for dye-sensitized solar cell semi-transparent photoelectrodes. Progress in Photovoltaics: Research and Applications, 2012, 20, 960-966.	4.4	31
3741	Theoretical studies of ground and excited electronic states in a series of heteroleptic iridium complexes using density functional theory. International Journal of Quantum Chemistry, 2012, 112, 2422-2428.	1.0	8
3742	Carbon Nanomaterials for Advanced Energy Conversion and Storage. Small, 2012, 8, 1130-1166.	5.2	1,304
3743	Granum-Like Stacking Structures with TiO <sub>2</sub> -Graphene Nanosheets for Improving Photoelectric Conversion. Small, 2012, 8, 1762-1770.	5.2	44
3744	A Facile Polymer Templating Route Toward High Aspect Ratio Crystalline Titania Nanostructures. Small, 2012, 8, 2636-2640.	5.2	33
3745	Applications of ionic liquids. Chemical Record, 2012, 12, 329-355.	2.9	239
3746	On the interplay between charge, spin and structural dynamics in transition metal complexes. Dalton Transactions, 2012, 41, 13022.	1.6	115
3748	Stability of CdS-coated TiO <sub>2</sub> solar cells. Journal of Solid State Electrochemistry, 2012, 16, 1091-1097.	1.2	11
3749	Core-shell CdTe-TiO <sub>2</sub> nanostructured solar cell. Journal of Materials Chemistry, 2012, 22, 10441.	6.7	23
3750	Tantalum Cobalt Nitride Photocatalysts for Water Oxidation under Visible Light. Chemistry of Materials, 2012, 24, 579-586.	3.2	71

#	ARTICLE	IF	CITATIONS
3751	Catalysts made of earth-abundant elements (Co, Ni, Fe) for water splitting: Recent progress and future challenges. <i>Energy and Environmental Science</i> , 2012, 5, 6012.	15.6	1,201
3752	The renaissance of dye-sensitized solar cells. <i>Nature Photonics</i> , 2012, 6, 162-169.	15.6	1,197
3753	Organic thin-film solar cells: Devices and materials. <i>Science China Chemistry</i> , 2012, 55, 553-578.	4.2	22
3754	Elevated Temperature Anodized Nb <sub>2</sub> O <sub>5</sub> : A Photoanode Material with Exceptionally Large Photoconversion Efficiencies. <i>ACS Nano</i> , 2012, 6, 4045-4053.	7.3	174
3755	Electrochemical water oxidation by photo-deposited cobalt-based catalyst on a nano-structured TiO <sub>2</sub> electrode. <i>Science China Chemistry</i> , 2012, 55, 1976-1981.	4.2	5
3756	All-solid-state dye-sensitized solar cells with high efficiency. <i>Nature</i> , 2012, 485, 486-489.	13.7	1,608
3757	Luminescent terbium(III) complex-based titania sensing material for fluoride and its photocatalytic properties. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 738.	1.6	10
3758	Plasmonic solar water splitting. <i>Energy and Environmental Science</i> , 2012, 5, 5133-5146.	15.6	766
3759	Novel hollow mesoporous 1D TiO <sub>2</sub> nanofibers as photovoltaic and photocatalytic materials. <i>Nanoscale</i> , 2012, 4, 1707.	2.8	194
3760	Electrical power and hydrogen production from a photo-fuel cell using formic acid and other single-carbon organics. <i>Journal of Materials Chemistry</i> , 2012, 22, 10709.	6.7	47
3761	The perils of solar cell efficiency measurements. <i>Nature Photonics</i> , 2012, 6, 337-340.	15.6	119
3763	Composition-Graded Zn <sub>x</sub> Cd <sub>1-x</sub> Se@ZnO Core-Shell Nanowire Array Electrodes for Photoelectrochemical Hydrogen Generation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3802-3807.	1.5	81
3764	Fabrication of Poly(3-hexylthiophene)/CdS/ZnO Core-Shell Nanotube Array for Semiconductor-Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1395-1400.	1.5	36
3765	Dye-sensitized solar cells: spectroscopic evaluation of dye loading on TiO <sub>2</sub> . <i>Journal of Materials Chemistry</i> , 2012, 22, 11364.	6.7	73
3766	Enzymes and bio-inspired electrocatalysts in solar fuel devices. <i>Energy and Environmental Science</i> , 2012, 5, 7470.	15.6	127
3767	Advanced Nanoarchitectures for Solar Photocatalytic Applications. <i>Chemical Reviews</i> , 2012, 112, 1555-1614.	23.0	2,107
3768	Mechanism of Photogenerated Reactive Oxygen Species and Correlation with the Antibacterial Properties of Engineered Metal-Oxide Nanoparticles. <i>ACS Nano</i> , 2012, 6, 5164-5173.	7.3	1,282
3769	Nano-architecture and material designs for water splitting photoelectrodes. <i>Chemical Society Reviews</i> , 2012, 41, 5654.	18.7	483

#	ARTICLE	IF	CITATIONS
3770	Role of Carbon Nanotubes in Dye-Sensitized TiO <sub>2</sub> -Based Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14848-14856.	1.5	92
3771	Theoretical Study of N749 Dyes Anchoring on the (TiO <sub>2</sub> ) <sub>28</sub> Surface in DSSCs and Their Electronic Absorption Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16338-16345.	1.5	76
3772	Series of New D-A- $\pi$ -A Organic Broadly Absorbing Sensitizers Containing Isoindigo Unit for Highly Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4215-4224.	4.0	124
3773	Evaluating Charge Recombination Rate in Dye-Sensitized Solar Cells from Electronic Structure Calculations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7638-7649.	1.5	85
3774	Solvent Effects on the Adsorption Geometry and Electronic Structure of Dye-Sensitized TiO <sub>2</sub> : A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5932-5940.	1.5	83
3775	Dithiafulvenyl Unit as a New Donor for High-Efficiency Dye-Sensitized Solar Cells: Synthesis and Demonstration of a Family of Metal-Free Organic Sensitizers. <i>Organic Letters</i> , 2012, 14, 2214-2217.	2.4	122
3776	Water adsorption on rutile TiO <sub>2</sub> ( $\text{http://www.w3.org/1998/Math/MathML}^{\text{display="inline"}}\text{<mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math}</math>) for applications in solar hydrogen production: A systematic hybrid-exchange density functional study. Physical Review B, 2012, 86, .$	1.1	29
3777	Promoting Effect of Graphene on Dye-Sensitized Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 10613-10620.	1.8	97
3778	Enhanced electrocatalytic performance of graphene via incorporation of SiO <sub>2</sub> nanoparticles for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 17321.	6.7	52
3779	Artificial photosynthesis for solar water-splitting. <i>Nature Photonics</i> , 2012, 6, 511-518.	15.6	1,790
3780	The DFT investigations of the electron injection in hydrazone-based sensitizers. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	49
3781	Self-Assembled Azobenzenethiol Monolayer on Electrode Surfaces: Effect of Photo-Switching on the Surface and Electrical Property. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 9-17.	0.8	8
3782	Nanocomposite p-n Junction Polycarbazole CdSe/TiO <sub>2</sub> Thin Films on ITO via Electrochemical Crosslinking. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 875-886.	1.7	7
3783	Light-Induced Dynamics in Conjugated Bis(terpyridine) Ligands – A Case Study Toward Photoactive Coordination Polymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 481-497.	2.0	29
3784	Optimization of the Performance of Dye-Sensitized Solar Cells Based on Pt-Like TiC Counter Electrodes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3557-3561.	1.0	29
3785	Nanostructure designs for effective solar-to-hydrogen conversion. <i>Nanophotonics</i> , 2012, 1, 31-50.	2.9	51
3786	Effect of Diffuse Light Scattering Designs on the Efficiency of Dye Solar Cells: An Integral Optical and Electrical Description. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11426-11433.	1.5	48
3787	Recent advances in hybrid photocatalysts for solar fuel production. <i>Energy and Environmental Science</i> , 2012, 5, 5902.	15.6	563

#	ARTICLE	IF	CITATIONS
3788	An efficient 3C-silicon carbide/titania nanocomposite photoelectrode for dye-sensitized solar cell. <i>Chemical Communications</i> , 2012, 48, 6696.	2.2	9
3789	Fabrication and characterization of nanostructured titania films with integrated function from inorganic-organic hybrid materials. <i>Chemical Society Reviews</i> , 2012, 41, 5131.	18.7	90
3790	High performance all-solid-state dye-sensitized solar cells based on cyanobiphenyl-functionalized imidazolium-type ionic crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 12842.	6.7	41
3791	Three-dimensional networks of ITO/CdS coaxial nanofibers for photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 13057.	6.7	13
3792	Arrays of CdSe sensitized ZnO/ZnSe nanocables for efficient solar cells with high open-circuit voltage. <i>Journal of Materials Chemistry</i> , 2012, 22, 13374.	6.7	98
3793	Intrinsic Metallic and Semiconducting Cubic Boron Nitride Nanofilms. <i>Nano Letters</i> , 2012, 12, 3650-3655.	4.5	42
3794	Surface Chemistry of Ruthenium Dioxide in Heterogeneous Catalysis and Electrocatalysis: From Fundamental to Applied Research. <i>Chemical Reviews</i> , 2012, 112, 3356-3426.	23.0	580
3795	Trends in activity for the water electrolyser reactions on 3d M(Ni,Co,Fe,Mn) hydr(oxy)oxide catalysts. <i>Nature Materials</i> , 2012, 11, 550-557.	13.3	2,423
3796	Extended TTF: a versatile molecule for organic electronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 4188.	6.7	136
3797	Low-temperature synthesis of ZnO/CdS hierarchical nanostructure for photovoltaic application. <i>Nanoscale</i> , 2012, 4, 5602.	2.8	29
3798	Adsorption of Dipyrrin-Based Dye Complexes on a Rutile TiO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18184-18192.	1.5	19
3799	Modeling Ruthenium-Dye-Sensitized TiO <sub>2</sub> Surfaces Exposing the (001) or (101) Faces: A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18124-18131.	1.5	55
3800	Significant Improvement of Dye-Sensitized Solar Cell Performance by Small Structural Modification in Conjugated Donor-Acceptor Dyes. <i>Advanced Functional Materials</i> , 2012, 22, 1291-1302.	7.8	404
3801	Facile Synthesis of Monodisperse Mesoporous Zirconium Titanium Oxide Microspheres with Varying Compositions and High Surface Areas for Heavy Metal Ion Sequestration. <i>Advanced Functional Materials</i> , 2012, 22, 1966-1971.	7.8	73
3802	Co <sub>3</sub> O <sub>4</sub> Nanoparticles as Robust Water Oxidation Catalysts Towards Remarkably Enhanced Photostability of a Ta <sub>3</sub> N <sub>5</sub> Photoanode. <i>Advanced Functional Materials</i> , 2012, 22, 3066-3074.	7.8	205
3803	Heteroatom-Modulated Switching of Photocatalytic Hydrogen and Oxygen Evolution Preferences of Anatase TiO <sub>2</sub> Microspheres. <i>Advanced Functional Materials</i> , 2012, 22, 3233-3238.	7.8	128
3804	Hierarchically Structured Porous Materials for Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2012, 22, 4634-4667.	7.8	796
3805	A Novel Photoanode with Three-Dimensionally, Hierarchically Ordered Nanobushes for Highly Efficient Photoelectrochemical Cells. <i>Advanced Materials</i> , 2012, 24, 4157-4162.	11.1	93

#	ARTICLE	IF	CITATIONS
3806	Radiative Lifetime Modification of LaF <sub>3</sub> :Nd Nanoparticles Embedded in 3D Silicon Photonic Crystals. <i>Advanced Materials</i> , 2012, 24, OP153-8.	11.1	20
3807	Full Solution-Processed Synthesis of All Metal Oxide-Based Tree-Like Heterostructures on Fluorine-Doped Tin Oxide for Water Splitting. <i>Advanced Materials</i> , 2012, 24, 5374-5378.	11.1	131
3808	Electrodeposited MnO <sub>x</sub> Films from Ionic Liquid for Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , 2012, 2, 1013-1021.	10.2	122
3810	Carboxyethyl Anchoring Ligands: A Means to Improving the Efficiency of Phthalocyanine-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4375-4378.	7.2	176
3811	Development of an O <sub>2</sub> -Sensitive Fluorescence-Quenching Assay for the Combinatorial Discovery of Electrocatalysts for Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6676-6680.	7.2	60
3812	Characterization of ZnO/polyaniline nanocomposites prepared by using surfactant solutions as polymerization media. <i>Journal of Applied Polymer Science</i> , 2012, 125, E141.	1.3	19
3813	Fabrication and deodorizing efficiency of nanostructured core-shell TiO <sub>2</sub> nanofibers. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2929-2935.	1.3	7
3814	New Organic Dye Based on a 3,6-Disubstituted Carbazole Donor for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2012, 7, 343-350.	1.7	35
3815	High-Performance Organic Materials for Dye-Sensitized Solar Cells: Triarylene-Linked Dyads with a 4-tert-Butylphenylamine Donor. <i>Chemistry - an Asian Journal</i> , 2012, 7, 572-581.	1.7	29
3816	New 2,6-Modified Bodipy Sensitizers for Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2012, 7, 696-700.	1.7	52
3817	Influence of Solvent and Bridge Structure in Alkylthio-Substituted Triphenylamine Dyes on the Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1817-1826.	1.7	13
3818	The Radiative Decay Rates Tune the Emissive Properties of Ruthenium(II) Polypyridyl Complexes: A Computational Study. <i>Chemistry - an Asian Journal</i> , 2012, 7, 667-671.	1.7	17
3819	Unsymmetric Platinum(II) Bis(aryleneethynylene) Complexes as Photosensitizers for Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1426-1434.	1.7	35
3820	Highly Catalytic Carbon Nanotube/Pt Nanohybrid-Based Transparent Counter Electrode for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1795-1802.	1.7	27
3821	Dye-Sensitized TiO <sub>2</sub> Nanotube Solar Cells: Rational Structural and Surface Engineering on TiO <sub>2</sub> Nanotubes. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2754-2762.	1.7	54
3822	An Autocatalytic Factor in the Loss of Efficiency in Dye-Sensitized Solar Cells. <i>ChemCatChem</i> , 2012, 4, 1255-1258.	1.8	9
3823	Size-Dependent Surface Activity of Rutile and Anatase TiO <sub>2</sub> Nanocrystals: Facile Surface Modification and Enhanced Photocatalytic Performance. <i>Chemistry - A European Journal</i> , 2012, 18, 4759-4765.	1.7	30
3824	Convergent Synthesis of Near-Infrared Absorbing, "Push-Pull", Bisthiophene-Substituted, Zinc(II) Phthalocyanines and their Application in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2012, 18, 6343-6348.	1.7	33

#	ARTICLE	IF	CITATIONS
3825	Controllable Fabrication of TiO <sub>2</sub> 1D Nano/Micro Structures: Solid, Hollow, and Tube-in-Tube Fibers by Electrospinning and the Photocatalytic Performance. Chemistry - A European Journal, 2012, 18, 10661-10668.	1.7	63
3826	Interfacial Layering of a Room-Temperature Ionic Liquid Thin Film on Mica: A Computational Investigation. ChemPhysChem, 2012, 13, 1772-1780.	1.0	34
3827	Acene-Modified Triphenylamine Dyes for Dye-Sensitized Solar Cells: A Computational Study. ChemPhysChem, 2012, 13, 2051-2060.	1.0	114
3828	Visible-Light Photooxidation of Water to Oxygen at Hybrid TiO <sub>2</sub> "Polyheptazine Photoanodes with Photodeposited CoPi (CoO <sub>x</sub> ) Cocatalyst. ChemPhysChem, 2012, 13, 3018-3024.	1.0	59
3829	Photophysical and Electrochemical Properties, and Molecular Structures of Organic Dyes for Dye-Sensitized Solar Cells. ChemPhysChem, 2012, 13, 4032-4080.	1.0	319
3830	Electrochemistry in Reverse Biased Dye Solar Cells and Dye/Electrolyte Degradation Mechanisms. ChemPhysChem, 2012, 13, 2964-2975.	1.0	34
3831	Metal-Free and Fluorescent Diketopyrrolopyrrole Fluorophores for Dye-Sensitized Solar Cells. ChemPlusChem, 2012, 77, 462-469.	1.3	5
3832	Morphological alteration of anatase titania nanostructures depend on the amount of Na ion intercalation. Crystal Research and Technology, 2012, 47, 738-745.	0.6	10
3834	Application of Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> Nanorods in Dye-Sensitized Solar Cells. ChemSusChem, 2012, 5, 1307-1312.	3.6	64
3835	The Preparation of Titanium Dioxide Gas Sensors by the Electric Field Assisted Aerosol CVD Reaction of Titanium Isopropoxide in Toluene. Chemical Vapor Deposition, 2012, 18, 102-106.	1.4	23
3837	A film of rutile TiO <sub>2</sub> pillars with well-developed facets on an $\sqrt{2}$ -Ti substrate as a photoelectrode for improved water splitting. Nanoscale, 2012, 4, 3871.	2.8	29
3838	Nanosheet-based hierarchical ZnO structure decorated with TiO <sub>2</sub> particles for enhanced performance in dye-sensitized solar cell. CrystEngComm, 2012, 14, 7934.	1.3	22
3839	Helicenes: Synthesis and Applications. Chemical Reviews, 2012, 112, 1463-1535.	23.0	1,178
3840	Nanostructured solar cells harvesting multi-type energies. Energy and Environmental Science, 2012, 5, 6040.	15.6	26
3841	Ordered mesoporous metal oxides: synthesis and applications. Chemical Society Reviews, 2012, 41, 4909.	18.7	687
3842	Visible light driven hydrogen production from a photo-active cathode based on a molecular catalyst and organic dye-sensitized p-type nanostructured NiO. Chemical Communications, 2012, 48, 988-990.	2.2	237
3843	Application of in situ measurement of photo-induced variations in electron work function for in-depth understanding of the photocatalytic activity of TiO <sub>2</sub> nanotubes. Nanotechnology, 2012, 23, 275704.	1.3	7
3844	Dual-Sensitization via Electron and Energy Harvesting in CdTe Quantum Dots Decorated ZnO Nanorod-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2012, 116, 14248-14256.	1.5	50



#	ARTICLE	IF	CITATIONS
3845	Improved Utilization of Photogenerated Charge Using Fluorine-Doped TiO <sub>2</sub> Hollow Spheres Scattering Layer in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 3712-3717.	4.0	71
3846	Infrared Spectroscopic Studies of Conduction Band and Trapped Electrons in UV-Photoexcited, H-Atom n-Doped, and Thermally Reduced TiO <sub>2</sub> . Journal of Physical Chemistry C, 2012, 116, 4535-4544.	1.5	122
3847	Photooxidation Mechanism of Methanol on Rutile TiO <sub>2</sub> Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 6623-6635.	1.5	104
3848	Synthesis of conductive rutile-phased Nb <sub>0.06</sub> Ti <sub>0.94</sub> O <sub>2</sub> and its supported Pt electrocatalysts (Pt/Nb <sub>0.06</sub> Ti <sub>0.94</sub> O <sub>2</sub> ) for the oxygen reduction reaction. Dalton Transactions, 2012, 41, 1187-1194.	1.6	40
3849	Band Bending in Semiconductors: Chemical and Physical Consequences at Surfaces and Interfaces. Chemical Reviews, 2012, 112, 5520-5551.	23.0	1,916
3850	Spectroscopic Studies of Light-driven Water Oxidation Catalyzed by Polyoxometalates. Industrial & Engineering Chemistry Research, 2012, 51, 11850-11859.	1.8	37
3851	Challenges in the simulation of dye-sensitized ZnO solar cells: quantum confinement, alignment of energy levels and excited state nature at the dye/semiconductor interface. Physical Chemistry Chemical Physics, 2012, 14, 10662.	1.3	21
3852	Brief Overview of Dye-Sensitized Solar Cells. Ambio, 2012, 41, 151-155.	2.8	63
3853	Review on nanostructured semiconductors for dye sensitized solar cells. Electronic Materials Letters, 2012, 8, 231-243.	1.0	58
3854	An alternative flexible electrode for dye-sensitized solar cells. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	10
3855	Controllable synthesis of titania/reduced graphite oxide nanocomposites with various titania phase compositions and their photocatalytic performance. Science China Chemistry, 2012, 55, 1294-1302.	4.2	4
3856	Preparation of hierarchical TiO <sub>2</sub> microspheres for enhancing photocurrent of dye sensitized solar cells. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1158-1162.	2.0	3
3857	Low temperature fabrication of high performance and transparent Pt counter electrodes for use in flexible dye-sensitized solar cells. Science Bulletin, 2012, 57, 2329-2334.	1.7	10
3858	Structural and spectral properties of 4-phenoxyphthalonitrile dye sensitizer for solar cell applications. Bulletin of Materials Science, 2012, 35, 265-275.	0.8	2
3859	Effect of the thickness of the Ru-coating on a counter electrode on the performance of a dye-sensitized solar cell. Metals and Materials International, 2012, 18, 105-108.	1.8	15
3860	TiO <sub>2</sub> Nanorod Arrays Sensitized with CdS Quantum Dots for Solar Cell Applications: Effects of Rod Geometry on Photoelectrochemical Performance. Applied Physics A: Materials Science and Processing, 2012, 107, 321-331.	1.1	27
3861	Multi-wall carbon nanotube counter electrodes for dye-sensitized solar cells prepared by electrophoretic deposition. Journal of Solid State Electrochemistry, 2012, 16, 1415-1421.	1.2	27
3862	Effect of optical property of surfactant-treated TiO <sub>2</sub> nanostructure on the performance of TiO <sub>2</sub> photo-electrochemical cell. Journal of Solid State Electrochemistry, 2012, 16, 2005-2010.	1.2	14

#	ARTICLE	IF	CITATIONS
3863	Adherent Nanoporous Anatase $\text{TiO}_2$ Membranes on Stainless Steel Substrates. <i>Journal of the American Ceramic Society</i> , 2012, 95, 64-66.	1.9	7
3864	Preparation of Core/Shell Structured Rutile/Anatase Photocatalyst via Vapor Phase Hydrolysis and its Photocatalytic Degradation of Phenol and Methylene Blue. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1927-1932.	1.9	17
3865	Synthesis and photoelectrochemical behavior of CdS quantum dots-sensitized indium tin oxide mesoporous film. <i>Current Applied Physics</i> , 2012, 12, 129-133.	1.1	12
3866	Novel $\text{Ag}_3\text{PO}_4/\text{TiO}_2$ composites for efficient decomposition of gaseous 2-propanol under visible-light irradiation. <i>Catalysis Communications</i> , 2012, 17, 131-135.	1.6	158
3867	Visible light-driven binary dyes synergic degradation by iodine-doped $\text{TiO}_2$ nanocrystal film. <i>Catalysis Communications</i> , 2012, 20, 94-98.	1.6	12
3868	Heterojunction semiconductors: A strategy to develop efficient photocatalytic materials for visible light water splitting. <i>Catalysis Today</i> , 2012, 185, 270-277.	2.2	277
3869	Dissociation of formic acid on anatase $\text{TiO}_2(101)$ probed by vibrational spectroscopy. <i>Catalysis Today</i> , 2012, 182, 12-15.	2.2	58
3870	Effects of the crystal reduction state on the interaction of oxygen with rutile $\text{TiO}_2(110)$ . <i>Catalysis Today</i> , 2012, 182, 25-38.	2.2	39
3871	Transition metal complexes that catalyze oxygen formation from water: 1979-2010. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1115-1136.	9.5	212
3872	Effect of acetic acid in $\text{TiO}_2$ paste on the performance of dye-sensitized solar cells. <i>Ceramics International</i> , 2012, 38, S511-S515.	2.3	27
3873	Effects of tungsten thickness and annealing temperature on the electrical properties of $\text{W}/\text{TiO}_2$ thin films. <i>Ceramics International</i> , 2012, 38, 223-227.	2.3	9
3874	Photovoltaic property dependence of dye-sensitized solar cells on sheet resistance of FTO substrate deposited via spray pyrolysis. <i>Ceramics International</i> , 2012, 38, 3735-3739.	2.3	36
3875	Physisorption of helium on a $\text{TiO}_2(110)$ surface: Periodic and finite cluster approaches. <i>Chemical Physics</i> , 2012, 399, 272-280.	0.9	10
3876	Modelling and development of photoelectrochemical reactor for $\text{H}_2$ production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2911-2923.	3.8	76
3877	Progress and perspectives in micro direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8765-8786.	3.8	123
3878	Linker-free quantum dot sensitized $\text{TiO}_2$ photoelectrochemical cells. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6422-6430.	3.8	16
3879	Synthesis and photocatalytic activity of Mn-doped $\text{TiO}_2$ nanostructured powders under UV and visible light. <i>Applied Catalysis B: Environmental</i> , 2012, 113-114, 79-86.	10.8	133
3880	Surface-modified anatase nanocrystalline building blocks for constructing catalytically highly active nanoporous titania materials. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 36-42.	10.8	6

#	ARTICLE	IF	CITATIONS
3881	First-principles calculation of compensated (2N, W) codoping impacts on band gap engineering in anatase TiO <sub>2</sub> . <i>Chemical Physics Letters</i> , 2012, 527, 63-66.	1.2	75
3882	Adsorption dynamics of the N719 dye on nanoporous titanium oxides studied by resonance Raman scattering and Fourier transform infrared spectroscopy. <i>Chemical Physics Letters</i> , 2012, 536, 45-49.	1.2	18
3883	Structural planarity and conjugation effects of novel symmetrical acceptor–donor–acceptor organic sensitizers on dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2012, 93, 1488-1497.	2.0	57
3884	Alkyloxy substituted organic dyes for high voltage dye-sensitized solar cell: Effect of alkyloxy chain length on open-circuit voltage. <i>Dyes and Pigments</i> , 2012, 94, 88-98.	2.0	27
3885	Photovoltaic performance of solid-state DSSCs sensitized with organic isophorone dyes: Effect of dye-loaded amount and dipole moment. <i>Dyes and Pigments</i> , 2012, 94, 23-27.	2.0	18
3886	Novel D– $\pi$ –A system based on zinc porphyrin dyes for dye-sensitized solar cells: Synthesis, electrochemical, and photovoltaic properties. <i>Dyes and Pigments</i> , 2012, 94, 143-149.	2.0	76
3887	Theoretical studies on spectroscopic properties of ruthenium sensitizers absorbed to TiO <sub>2</sub> film surface with connection mode for DSSC. <i>Dyes and Pigments</i> , 2012, 94, 459-468.	2.0	61
3888	Performance of dye-sensitized solar cells based on novel sensitizers bearing asymmetric double D– $\pi$ –A chains with arylamines as donors. <i>Dyes and Pigments</i> , 2012, 94, 481-489.	2.0	54
3889	Preparation of new titanium oxy nitride based electro catalysts using an anhydrous sol-gel method for water electrolysis in acid medium. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7405-7417.	3.8	20
3890	Photovoltaic properties of dye-sensitized solar cells associated with amphiphilic structure of ruthenium complex dyes. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 73-79.	5.0	18
3891	Flower-like surface modification of titania materials by lithium hydroxide solution. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 291-296.	5.0	12
3892	Small diameter TiO <sub>2</sub> nanotubes vs. nanopores in dye sensitized solar cells. <i>Electrochemistry Communications</i> , 2012, 15, 1-4.	2.3	65
3893	Graphene oxide organogel electrolyte for quasi solid dye sensitized solar cells. <i>Electrochemistry Communications</i> , 2012, 19, 108-110.	2.3	43
3894	Silica modification of titania nanoparticles for a dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2012, 59, 32-38.	2.6	18
3895	Study on TiO <sub>2</sub> photoelectrode to improve the overall performance of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 59, 75-80.	2.6	15
3896	Eosin-Y and N3-Dye sensitized solar cells (DSSCs) based on novel nanocoral TiO <sub>2</sub> : A comparative study. <i>Electrochimica Acta</i> , 2012, 59, 113-120.	2.6	74
3897	Electrochemical synthesis of hierarchical Cu <sub>2</sub> O stars with enhanced photoelectrochemical properties. <i>Electrochimica Acta</i> , 2012, 62, 1-7.	2.6	168
3898	Anatase TiO <sub>2</sub> hollow spheres with small dimension fabricated via a simple preparation method for dye-sensitized solar cells with an ionic liquid electrolyte. <i>Electrochimica Acta</i> , 2012, 60, 422-427.	2.6	48

#	ARTICLE	IF	CITATIONS
3899	A comparison of quantum-sized anatase and rutile nanowire thin films: Devising differences in the electronic structure from photoelectrochemical measurements. <i>Electrochimica Acta</i> , 2012, 62, 172-180.	2.6	51
3900	Bi-functional TiO <sub>2</sub> cemented Ag grid under layer for enhancing the photovoltaic performance of a large-area dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2012, 62, 313-318.	2.6	8
3901	Effect of synthesis temperature on structure, optical and photovoltaic properties of TiO <sub>2</sub> nanorod thin films. <i>Electrochimica Acta</i> , 2012, 65, 44-49.	2.6	28
3902	Charge transporting enhancement of NiO photocathodes for p-type dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 66, 210-215.	2.6	30
3903	TiO <sub>2</sub> compact layers prepared by low temperature colloidal synthesis and deposition for high performance dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 67, 18-23.	2.6	36
3904	Low cost poly(3,4-ethylenedioxythiophene):polystyrenesulfonate/carbon black counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 67, 113-118.	2.6	58
3905	UV-cleaning properties of Pt nanoparticle-decorated titania nanotubes in the electro-oxidation of methanol: An anti-poisoning and refreshable electrode. <i>Electrochimica Acta</i> , 2012, 70, 1-9.	2.6	53
3906	Mesoscopic nitrogen-doped TiO <sub>2</sub> spheres for quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 68, 166-171.	2.6	47
3907	Application of Yb <sup>3+</sup> , Er <sup>3+</sup> -doped yttrium oxyfluoride nanocrystals in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 70, 131-135.	2.6	45
3908	Mesoporous TiO <sub>2</sub> nanowires as bi-functional materials for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 74, 83-86.	2.6	11
3909	Enhancing the solar cell efficiency through pristine 1-dimensional SnO <sub>2</sub> nanostructures: Comparison of charge transport and carrier lifetime of SnO <sub>2</sub> particles vs. nanorods. <i>Electrochimica Acta</i> , 2012, 72, 192-198.	2.6	54
3910	Improved photovoltaic performance of dye-sensitized solar cells by Sb-doped TiO <sub>2</sub> photoanode. <i>Electrochimica Acta</i> , 2012, 77, 54-59.	2.6	45
3911	Platinum coated counter electrodes for dye-sensitized solar cells fabricated by pulsed electrodeposition—Correlation of nanostructure, catalytic activity and optical properties. <i>Electrochimica Acta</i> , 2012, 77, 121-127.	2.6	19
3912	The role of the Quinone and Pyridine added to catechol to improve the efficiency of dye sensitized solar cell: An ab initio study. <i>Energy Conversion and Management</i> , 2012, 53, 68-74.	4.4	8
3913	Watching nanoparticle kinetics in liquid. <i>Materials Today</i> , 2012, 15, 140-147.	8.3	35
3914	Rapid route for synthesis of nano-TiO <sub>2</sub> termed graded calcination. <i>Micro and Nano Letters</i> , 2012, 7, 212.	0.6	0
3915	Dimensional control of titanium dioxide nanotube arrays with hydrogen peroxide content for high photoelectrochemical water splitting performance. <i>Micro and Nano Letters</i> , 2012, 7, 443.	0.6	21
3916	Improved photoelectrochemical detection of mercury (II) with a TiO <sub>2</sub> -modified composite photoelectrode. <i>Materials Chemistry and Physics</i> , 2012, 132, 10-16.	2.0	20

#	ARTICLE	IF	CITATIONS
3917	A quasi solid state dye-sensitized solar cell based on poly(vinylidene fluoride-co-hexafluoropropylene)/SBA-15 nanocomposite membrane. <i>Materials Chemistry and Physics</i> , 2012, 132, 431-437.	2.0	13
3918	Correlating the photovoltaic performance of alumina modified dye-sensitized solar cells with the properties of metal-free organic sensitizers. <i>Materials Chemistry and Physics</i> , 2012, 132, 943-949.	2.0	13
3919	Dye-sensitized solar cell with poly(acrylic acid-co-acrylonitrile)-based gel polymer electrolyte. <i>Materials Chemistry and Physics</i> , 2012, 132, 993-998.	2.0	25
3920	Template free synthesis of locally-ordered mesoporous titania and its application in dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2012, 134, 170-176.	2.0	9
3921	Excited nanoscale-TiO <sub>2</sub> induced interfacial electron transfer reaction of redox active cobalt(III)-alkyl amine complex and the solid surface. <i>Materials Chemistry and Physics</i> , 2012, 134, 747-754.	2.0	6
3922	Bi-quantum dots co-sensitized TiO <sub>2</sub> nanocomposites: Templated synthesis and stabilized by polymer brushes. <i>Materials Chemistry and Physics</i> , 2012, 134, 966-972.	2.0	2
3923	Phase and morphology changes induced by acid treatment following alkaline reaction of mesoporous anatase: Effect of anions. <i>Materials Chemistry and Physics</i> , 2012, 134, 1020-1029.	2.0	4
3924	Dye-sensitized solar cells composed of Ti <sub>1-x</sub> Sn <sub>x</sub> O <sub>2</sub> nanocrystals. <i>Materials Chemistry and Physics</i> , 2012, 135, 46-50.	2.0	4
3925	Preparation and characterization of Co-doped TiO <sub>2</sub> materials for solar light induced current and photocatalytic applications. <i>Materials Chemistry and Physics</i> , 2012, 135, 220-234.	2.0	99
3926	RBS, XRR and optical reflectivity measurements of TiO <sub>2</sub> thin films deposited by magnetron sputtering. <i>Materials Research Bulletin</i> , 2012, 47, 296-301.	2.7	17
3927	Facile preparation and photoelectrochemical properties of CdSe/TiO <sub>2</sub> NTAs. <i>Materials Research Bulletin</i> , 2012, 47, 580-585.	2.7	26
3928	Photochemical reduction of Al <sup>3+</sup> to Al <sup>0</sup> over a ferroelectric photocatalyst LiNbO <sub>3</sub> . <i>Materials Letters</i> , 2012, 79, 18-20.	1.3	12
3929	Advancement in solar photovoltaic/thermal (PV/T) hybrid collector technology. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1383-1398.	8.2	346
3930	Theoretical study of carbazole-triphenylamine-based dyes for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 387-391.	2.0	36
3931	Synthesis, characterization and DFT study of methoxybenzylidene containing chromophores for DSSC materials. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 239-243.	2.0	46
3932	Study of non-covalent interaction between a designed monoporphyrin and fullerenes (C <sub>60</sub> and C <sub>70</sub> ) in absence and presence of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 485-492.	2.0	6
3933	Synthesis and photocatalytic activity of ferrites under visible light: A review. <i>Separation and Purification Technology</i> , 2012, 87, 1-14.	3.9	667
3934	Photoinduced electron-transfer in supramolecular complex of zinc porphyrin with poly(amido amine) dendrimer donor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 234, 66-74.	2.0	8

#	ARTICLE	IF	CITATIONS
3935	Rice grain-shaped TiO <sub>2</sub> @CNT composite A functional material with a novel morphology for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 231, 9-18.	2.0	64
3936	Density functional theory study on the electronic structure of Monascus dyes as photosensitizer for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 236, 35-40.	2.0	198
3937	Triphenylamine-based starburst dyes with carbazole and phenothiazine antennas for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 199, 426-431.	4.0	83
3938	Enhanced efficiency for dye-sensitized solar cells using a surface-treated photo-anode. <i>Journal of Power Sources</i> , 2012, 199, 418-425.	4.0	32
3939	A low cost mesoporous carbon/SnO <sub>2</sub> /TiO <sub>2</sub> nanocomposite counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 201, 402-407.	4.0	64
3940	Improved the performance of dye-sensitized solar cells by incorporating mesoporous silica (SBA-15) materials in scattering layer. <i>Journal of Power Sources</i> , 2012, 201, 387-394.	4.0	11
3941	Preparation of poly(acrylic acid)/gelatin/polyaniline gel-electrolyte and its application in quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 203, 282-287.	4.0	60
3942	The surface treatment of Ti meshes for use in large-area flexible dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012, 208, 197-202.	4.0	31
3943	Self-ordering anodized nanotubes: Enhancing the performance by surface plasmon for dye-sensitized solar cell. <i>Journal of Solid State Chemistry</i> , 2012, 189, 101-107.	1.4	34
3944	The photocatalytic activities for water decomposition of K <sub>4</sub> R <sub>2</sub> M <sub>100</sub> 30 (R=Y, La, Ce, Nd, Sm; M=Ta, Nb) and their photophysical properties based on the first principle calculation. <i>Journal of Molecular Catalysis A</i> , 2012, 352, 95-101.	4.8	4
3945	Sensing rutile TiO <sub>2</sub> through fluorescence of imidazole derivative. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 263-270.	4.0	25
3946	Enhancement of photoelectrochemical activity of nanocrystalline CdS photoanode by surface modification with TiO <sub>2</sub> for hydrogen production and electricity generation. <i>Solar Energy</i> , 2012, 86, 756-763.	2.9	50
3947	The optical and electrochemical properties of CdS/CdSe co-sensitized TiO <sub>2</sub> solar cells prepared by successive ionic layer adsorption and reaction processes. <i>Solar Energy</i> , 2012, 86, 964-971.	2.9	80
3948	Mono-ion transport electrolyte based on ionic liquid polymer for all-solid-state dye-sensitized solar cells. <i>Solar Energy</i> , 2012, 86, 1546-1551.	2.9	21
3949	Photoelectrochromic performance of tungsten oxide based devices with PEG-titanium complex as solvent-free electrolytes. <i>Solar Energy Materials and Solar Cells</i> , 2012, 100, 27-32.	3.0	21
3950	Photoelectrochemical performance of gallium-doped AgInS <sub>2</sub> photoelectrodes prepared by electrodeposition process. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 33-42.	3.0	35
3951	Transmittance optimized nb-doped TiO <sub>2</sub> /Sn-doped In <sub>2</sub> O <sub>3</sub> multilayered photoelectrodes for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 276-280.	3.0	35
3952	ZnO/ZnSe type II core-shell nanowire array solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2012, 102, 15-18.	3.0	45

#	ARTICLE	IF	CITATIONS
3953	Dipolar organic pyridyl dyes for dye-sensitized solar cell applications. <i>Tetrahedron</i> , 2012, 68, 767-773.	1.0	28
3954	Engineering of highly efficient tetrahydroquinoline sensitizers for dye-sensitized solar cells. <i>Tetrahedron</i> , 2012, 68, 552-558.	1.0	42
3955	Y-shaped dyes based on triphenylamine for efficient dye-sensitized solar cells. <i>Tetrahedron</i> , 2012, 68, 3626-3632.	1.0	51
3956	Synthesis, electrochemical and photophysical properties of $\beta^2$ -carboxy triaryl corroles. <i>Tetrahedron Letters</i> , 2012, 53, 991-993.	0.7	22
3957	Synthesis of ruthenium tris(2,2'-bipyridine)-type complexes tethered to peptides at 5,5'-positions. <i>Tetrahedron Letters</i> , 2012, 53, 1249-1252.	0.7	5
3958	A hybrid tandem solar cell based on hydrogenated amorphous silicon and dye-sensitized TiO <sub>2</sub> film. <i>Thin Solid Films</i> , 2012, 520, 2102-2105.	0.8	12
3959	Advances in understanding of transparent conducting oxides. <i>Thin Solid Films</i> , 2012, 520, 3714-3720.	0.8	53
3960	Enhanced efficiency of tri-layered dye solar cells with hydrothermally synthesized titania nanotubes as light scattering outer layer. <i>Thin Solid Films</i> , 2012, 520, 3581-3586.	0.8	13
3961	An evaluation of depletion layer photoactivity in Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film. <i>Thin Solid Films</i> , 2012, 520, 4422-4426.	0.8	18
3962	Large efficiency improvement in nanoporous dye-sensitized solar cells via vacuum assistant dye adsorption. <i>Vacuum</i> , 2012, 86, 1161-1164.	1.6	9
3963	Influences of textures in Pt counter electrode on characteristics of dye-sensitized solar cells. <i>Organic Electronics</i> , 2012, 13, 199-205.	1.4	29
3964	Nanoporous platinum counter electrodes by glancing angle deposition for dye-sensitized solar cells. <i>Organic Electronics</i> , 2012, 13, 856-863.	1.4	18
3965	Electronic properties of anatase TiO <sub>2</sub> doped by lanthanides: A DFT+U study. <i>Physica B: Condensed Matter</i> , 2012, 407, 1038-1043.	1.3	61
3966	Photophysical properties of [Cu(binap) <sub>2</sub> ] <sup>+</sup> and [Pd(binap) <sub>2</sub> ] complexes: A theoretical study. <i>Polyhedron</i> , 2012, 37, 54-59.	1.0	12
3967	Synthesis and physical properties of TiO <sub>2</sub> microparticles coated by a sol-gel method and their application to dye-sensitized solar cells. <i>Powder Technology</i> , 2012, 226, 157-164.	2.1	6
3968	Synthesis and characterization of polyfluorinated 2,2'-bipyridines and their palladium and platinum complexes, [MX <sub>2</sub> (bis(RfCH <sub>2</sub> OCH <sub>2</sub> )-2,2'-bpy)] (X=Cl, Br). <i>Journal of Fluorine Chemistry</i> , 2012, 137, 54-63.	0.9	15
3969	Enhanced electron transfer and silver-releasing suppression in Ag <sup>+</sup> /AgBr/titanium-doped Al <sub>2</sub> O <sub>3</sub> suspensions with visible-light irradiation. <i>Journal of Hazardous Materials</i> , 2012, 219-220, 276-282.	6.5	14
3970	Theoretical design and screening of panchromatic phthalocyanine sensitizers derived from TT1 for dye-sensitized solar cells. <i>Journal of Molecular Graphics and Modelling</i> , 2012, 34, 1-9.	1.3	33

#	ARTICLE	IF	CITATIONS
3971	Reliability Study of Ruthenium-Based Dye-Sensitized Solar Cells (DSCs). IEEE Journal of Photovoltaics, 2012, 2, 27-34.	1.5	16
3972	Synthesis of mesoporous nanocrystalline TiO <sub>2</sub> films in a premixed H <sub>2</sub> /O <sub>2</sub> /Ar flame. Combustion, Explosion and Shock Waves, 2012, 48, 49-56.	0.3	6
3973	Improvement in the photoelectrochemical responses of PCBM/TiO <sub>2</sub> electrode by electron irradiation. Nanoscale Research Letters, 2012, 7, 142.	3.1	10
3974	A Topological method for global optimization of clusters: Application to (TiO <sub>2</sub> ) <sub>n</sub> (n = 1-6). Journal of Computational Chemistry, 2012, 33, 163-169.	1.5	16
3975	Electrophoretic Deposition of a Reduced Graphene-Au Nanoparticle Composite Film as Counter Electrode for CdS Quantum Dot-Sensitized Solar Cells. ChemPhysChem, 2012, 13, 769-773.	1.0	42
3976	Electron Transfer and Switching in Rigid [2]Rotaxanes Adsorbed on TiO <sub>2</sub> Nanoparticles. ChemPhysChem, 2012, 13, 797-810.	1.0	10
3977	A solvothermal single-step route towards shape-controlled titanium dioxide nanocrystals. Canadian Journal of Chemical Engineering, 2012, 90, 8-17.	0.9	20
3978	Inverse-Woodpile Photonic Band Gap Crystals with a Cubic Diamond-Like Structure Made from Single-Crystalline Silicon. Advanced Functional Materials, 2012, 22, 25-31.	7.8	35
3979	Functionalization of Nanostructured Hematite Thin-Film Electrodes with the Light-Harvesting Membrane Protein C-Phycocyanin Yields an Enhanced Photocurrent. Advanced Functional Materials, 2012, 22, 490-502.	7.8	48
3980	Sensing of Vaporous Organic Compounds by TiO <sub>2</sub> Porous Films Covered with Polythiophene Layers. Advanced Functional Materials, 2012, 22, 469-476.	7.8	71
3981	Hierarchical Zinc Oxide Materials with Multiple Porosity Prepared by Ultrafast Temperature Gradient Chemical Gas-Phase Synthesis. Advanced Materials, 2012, 24, 543-548.	11.1	43
3982	High-Temperature Solid-State Dye-Sensitized Solar Cells Based on Organic Ionic Plastic Crystal Electrolytes. Advanced Materials, 2012, 24, 945-950.	11.1	82
3983	Conduction Through Viscoelastic Phase in a Redox-Active Ionic Liquid at Reduced Temperatures. Advanced Materials, 2012, 24, 781-784.	11.1	17
3984	Directly Hydrothermal Growth of Single Crystal Nb <sub>3</sub> O <sub>7</sub> (OH) Nanorod Film for High Performance Dye-Sensitized Solar Cells. Advanced Materials, 2012, 24, 1598-1603.	11.1	86
3985	A Large-Area Light-Weight Dye-Sensitized Solar Cell based on All Titanium Substrates with an Efficiency of 6.69% Outdoors. Advanced Materials, 2012, 24, 1884-1888.	11.1	146
3986	Metal Oxide Hollow Nanostructures for Lithium-Ion Batteries. Advanced Materials, 2012, 24, 1903-1911.	11.1	1,414
3987	Engineering Impurity Distributions in Photoelectrodes for Solar Water Oxidation. Advanced Energy Materials, 2012, 2, 52-57.	10.2	18
3989	High Photocurrent in Silicon Photoanodes Catalyzed by Iron Oxide Thin Films for Water Oxidation. Angewandte Chemie - International Edition, 2012, 51, 423-427.	7.2	75



#	ARTICLE	IF	CITATIONS
3990	Molecular design and theoretical investigation on novel porphyrin derivatives for dye-sensitized solar cells. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	26
3991	Low-lying electronic excitations and optical absorption spectra of the black dye sensitizer: a first-principles study. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	9
3992	The photocatalytic properties of amorphous TiO <sub>2</sub> composite films deposited by magnetron sputtering. <i>Research on Chemical Intermediates</i> , 2012, 38, 487-498.	1.3	38
3993	Effect of organic gelator template and preparation method on the structure and morphology of nanosized polymorphic titanium oxide using the sol-gel process. <i>Research on Chemical Intermediates</i> , 2012, 38, 685-692.	1.3	1
3994	Growth of aligned ZnO nanorods on transparent electrodes by hybrid methods. <i>Journal of Materials Science</i> , 2012, 47, 2025-2032.	1.7	21
3995	Optical and photovoltaic properties of silicon wire solar cells with controlled ZnO nanorods antireflection coating. <i>Journal of Materials Science</i> , 2012, 47, 4138-4145.	1.7	6
3996	Water splitting with a dual photo-electrochemical cell and hybrid catalysis for enhanced solar energy utilization. <i>International Journal of Energy Research</i> , 2013, 37, 1175-1186.	2.2	26
3997	An organic solar cell theoretical model with two concepts of excitonic and bipolar transport. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 59-68.	0.8	1
3998	Enhanced efficiency of phenothiazine derivative organic dye-sensitized ionic liquid solar cells on aging. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 525-533.	4.4	1
3999	Theoretical studies on structural and spectroscopic properties of photoelectrochemical cell ruthenium sensitizers, derivatives of AR20. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 891-901.	1.0	5
4000	ToF-SIMS of metal-complex-based supramolecular architectures on oxide surfaces. <i>Surface and Interface Analysis</i> , 2013, 45, 206-210.	0.8	6
4001	Submicron-sized mesoporous anatase TiO <sub>2</sub> beads with a high specific surface synthesized by controlling reaction conditions for high-performance Li-batteries. <i>RSC Advances</i> , 2013, 3, 13149.	1.7	13
4002	Enhancement of TiO <sub>2</sub> nanoparticle properties and efficiency of dye-sensitized solar cells using modifiers. <i>Applied Nanoscience (Switzerland)</i> , 2013, 3, 167-174.	1.6	25
4003	Tuning the Electronic Structure of Titanium Oxide Support to Enhance the Electrochemical Activity of Platinum Nanoparticles. <i>Nano Letters</i> , 2013, 13, 4469-4474.	4.5	72
4004	Growth and properties of Ti films formed by dc magnetron sputtering for TCO-free photo electrode applications. <i>Electronic Materials Letters</i> , 2013, 9, 527-530.	1.0	2
4005	Preparation of highly concentrated and stable conducting polymer solutions and their application in high-efficiency dye-sensitized solar cell. <i>Organic Electronics</i> , 2013, 14, 2369-2378.	1.4	28
4006	CdS and CdS/CdSe sensitized ZnO nanorod array solar cells prepared by a solution ions exchange process. <i>Materials Research Bulletin</i> , 2013, 48, 4261-4266.	2.7	15
4007	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1921-1932.	6.6	158

#	ARTICLE	IF	CITATIONS
4008	The influence of various deposition techniques on the photoelectrochemical properties of the titanium dioxide thin film. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 452-458.	1.1	12
4009	Novel quasi-cube TiO <sub>2</sub> nanoparticles as light-scattering layers for dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	9
4010	Nanofibrous TiO <sub>2</sub> improving performance of mesoporous TiO <sub>2</sub> electrode in dye-sensitized solar cell. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	12
4011	Morphology and growth of capped Ge/Si quantum dots. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	6
4012	Experimental determination of conduction and valence bands of semiconductor nanoparticles using Kelvin probe force microscopy. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	17
4013	Role of Steps in the Dissociative Adsorption of Water on Rutile TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 11011-11017.	2.9	61
4014	Enhancement Effects of Cobalt Phosphate Modification on Activity for Photoelectrochemical Water Oxidation of TiO <sub>2</sub> and Mechanism Insights. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4046-4052.	4.0	56
4015	Fluorine- $\pi$ -thiophene-substituted organic dyes for dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11909.	5.2	25
4016	Effectively Utilizing NIR Light Using Direct Electron Injection from Up-Conversion Nanoparticles to the TiO <sub>2</sub> Photoanode in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 5910-5915.	7.8	57
4017	Electrophoretically deposited TiO <sub>2</sub> compact layers using aqueous suspension for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14729.	1.3	26
4018	Visible-light photocatalytic, solar thermal and photoelectrochemical properties of aluminium-reduced black titania. <i>Energy and Environmental Science</i> , 2013, 6, 3007.	15.6	626
4019	Photofunctional Construct That Interfaces Molecular Cobalt-Based Catalysts for H <sub>2</sub> Production to a Visible-Light-Absorbing Semiconductor. <i>Journal of the American Chemical Society</i> , 2013, 135, 11861-11868.	6.6	134
4020	Nitrogen-doped graphene as low-cost counter electrode for high-efficiency dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 92, 269-275.	2.6	95
4021	Rapid synthesis of titania-silica nanoparticles photocatalyst by a modified sol-gel method for cyanide degradation and heavy metals removal. <i>Journal of Alloys and Compounds</i> , 2013, 551, 1-7.	2.8	83
4022	TiO <sub>2</sub> /TaON- and TiO <sub>2</sub> /BiOI-Based Solid-State Solar Cells. <i>Journal of Energy Engineering - ASCE</i> , 2013, 139, 338-342.	1.0	6
4023	Hybrid Carbon Nanotubes-TiO <sub>2</sub> Photoanodes for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14510-14517.	1.5	121
4024	Novel low-intensity phase-selective laser-induced breakdown spectroscopy of TiO <sub>2</sub> nanoparticle aerosols during flame synthesis. <i>Combustion and Flame</i> , 2013, 160, 725-733.	2.8	71
4025	Effect of Fe-incorporation on photovoltaic characteristics of nano-structured CdSe thin films. <i>Journal of Alloys and Compounds</i> , 2013, 552, 318-323.	2.8	16

#	ARTICLE	IF	CITATIONS
4026	STM tip-assisted single molecule chemistry. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12428.	1.3	26
4027	Influence of Au thickness on the performance of plasmonic enhanced hematite photoanodes. <i>RSC Advances</i> , 2013, 3, 17837.	1.7	4
4028	Photoelectrochemical Tandem Cells for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17879-17893.	1.5	487
4029	Limits to Doping of Wide Band Gap Semiconductors. <i>Chemistry of Materials</i> , 2013, 25, 2924-2926.	3.2	57
4030	A new terpyridine cobalt complex redox shuttle for dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2013, 406, 106-112.	1.2	21
4031	WO <sub>3</sub> reduced graphene oxide composites with enhanced charge transfer for photoelectrochemical conversion. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16138.	1.3	49
4032	Simple and rapid biosynthesis of stable silver nanoparticles using dried leaves of <i>Catharanthus roseus</i> . Linn. G. Donn and its anti microbial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 105, 194-198.	2.5	91
4033	Enhanced photoelectrocatalytic performance for degradation of diclofenac and mechanism with TiO <sub>2</sub> nano-particles decorated TiO <sub>2</sub> nano-tubes arrays photoelectrode. <i>Electrochimica Acta</i> , 2013, 108, 203-210.	2.6	38
4034	Functionalized phenyl bipyridine ancillary ligand as double recombination inhibitor in ruthenium complex for dye solar cells. <i>Dyes and Pigments</i> , 2013, 99, 850-856.	2.0	14
4035	Near-infrared absorbing unsymmetrical Zn(II) phthalocyanine for dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2013, 407, 289-296.	1.2	21
4036	Ultrasonic Preparation of Hierarchical Graphene Oxide/TiO <sub>2</sub> Composite Microspheres for Efficient Photocatalytic Hydrogen Production. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2779-2786.	1.7	32
4037	Enhanced photoelectrochemical properties of 100MeV Si <sup>8+</sup> ion irradiated barium titanate thin films. <i>Journal of Alloys and Compounds</i> , 2013, 561, 114-120.	2.8	25
4038	Broadband light absorption enhancement in dye-sensitized solar cells with Au-Ag alloy popcorn nanoparticles. <i>Scientific Reports</i> , 2013, 3, 2112.	1.6	87
4039	Surface modification of TiO <sub>2</sub> nanoparticles with AHAPS aminosilane: distinction between physisorption and chemisorption. <i>Adsorption</i> , 2013, 19, 1197-1209.	1.4	14
4040	Fabrication of a double layered photoanode consisting of SnO <sub>2</sub> nanofibers and nanoparticles for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 13804.	1.7	28
4041	A high efficiency dye-sensitized solar cell with a UV-cured polymer gel electrolyte and a nano-gel electrolyte double layer. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8529.	5.2	11
4042	Vertically-aligned carbon nanotube counter electrodes for dye-sensitized solar cells. <i>Solar Energy</i> , 2013, 88, 129-136.	2.9	66
4043	Band alignment of rutile and anatase TiO <sub>2</sub> . <i>Nature Materials</i> , 2013, 12, 798-801.	13.3	1,924

#	ARTICLE	IF	CITATIONS
4044	NIR-Responsive Photocatalytic Activity and Mechanism of NaYF <sub>4</sub> :Yb,Tm@TiO <sub>2</sub> Core-Shell Nanoparticles. ACS Catalysis, 2013, 3, 405-412.	5.5	352
4045	Fabrication of Three-Dimensionally Ordered Macroporous TiO <sub>2</sub> Films with Enhanced Photovoltaic Conversion Efficiency. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 839-845.	1.9	2
4046	Novel ruthenium sensitizer with multiple butadiene equivalent thienyls as conjugation on ancillary ligand for dye-sensitized solar cells. Organic Electronics, 2013, 14, 2243-2248.	1.4	18
4047	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	1.6	317
4048	Single-step synthesis of 3D nanostructured TiO <sub>2</sub> as a scattering layer for vertically aligned 1D nanorod photoanodes and their dye-sensitized solar cell properties. CrystEngComm, 2013, 15, 5660.	1.3	42
4049	An ultraviolet responsive hybrid solar cell based on titania/poly(3-hexylthiophene). Scientific Reports, 2013, 3, 1283.	1.6	59
4050	Design of Os <sup>II</sup> -based Sensitizers for Dye-Sensitized Solar Cells: Influence of Heterocyclic Ancillaries. ChemSusChem, 2013, 6, 1366-1375.	3.6	17
4051	Theoretical Understanding of Enhanced Photoelectrochemical Catalytic Activity of Sn-Doped Hematite: Anisotropic Catalysis and Effects of Morin Transition and Sn Doping. Journal of Physical Chemistry C, 2013, 117, 3779-3784.	1.5	51
4052	Impact of hydroxy and octyloxy substituents of phenothiazine based dyes on the photovoltaic performance. Dyes and Pigments, 2013, 99, 299-307.	2.0	33
4053	Tuning the Energy Levels of ZnO/ZnS Core/Shell Nanowires To Design an efficient Nanowire-Based Dye-Sensitized Solar Cell. Journal of Physical Chemistry C, 2013, 117, 15890-15900.	1.5	51
4054	Eco-friendly ferrite nanocomposite photoelectrode for improved solar hydrogen generation. RSC Advances, 2013, 3, 15217.	1.7	27
4055	Band positions and photoelectrochemical properties of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films by the ultrasonic spray pyrolysis method. Journal Physics D: Applied Physics, 2013, 46, 235108.	1.3	104
4056	Single-Layer Group-III Monochalcogenide Photocatalysts for Water Splitting. Chemistry of Materials, 2013, 25, 3232-3238.	3.2	675
4057	UV light assisted synthesis of ternary reduced graphene oxide hybrid materials and their photocatalytic performance. Dalton Transactions, 2013, 42, 12284.	1.6	15
4058	Enhanced photovoltaic performance of hybrid solar cell using highly oriented CdS/CdSe-modified TiO <sub>2</sub> nanorods. Electrochimica Acta, 2013, 105, 137-141.	2.6	37
4059	Utilizing Ancillary Ligands to Optimize the Photophysical Properties of 4<i>H</i>-imidazole Ruthenium Dyes. ChemPhysChem, 2013, 14, 2973-2983.	1.0	13
4060	Preparing core-shell structure of ZnO@TiO <sub>2</sub> nanowires through a simple dipping-rinse-hydrolyzation process as the photoanode for dye-sensitized solar cells. Nano Energy, 2013, 2, 609-621.	8.2	26
4061	Low Temperature Preparation Routes of Nanoporous Semi-Conducting Films for Flexible Dye-Sensitized Solar Cells. ACS Symposium Series, 2013, , 143-172.	0.5	1

#	ARTICLE	IF	CITATIONS
4062	Broadband light confinement using a hierarchically structured TiO <sub>2</sub> multi-layer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9707.	5.2	29
4063	Quantum chemical investigations of electron injection in triphenylamine-dye sensitized TiO <sub>2</sub> used in dye sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2013, 142, 238-247.	2.0	37
4064	Cobalt complexes as artificial hydrogenases for the reductive side of water splitting. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 958-973.	0.5	171
4065	Surfactant-assisted hydrothermal synthesis of titania nanoparticles for solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3189-3194.	1.1	21
4066	Direct Imaging of the Recombination/Reduction Sites in Porous TiO <sub>2</sub> Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2822-2828.	2.1	24
4067	Spontaneous electric fields in solid films: spontelectrics. <i>International Reviews in Physical Chemistry</i> , 2013, 32, 345-392.	0.9	40
4068	Hematite/NiO/Ni(OH) <sub>2</sub> heterostructure photoanodes with high electrocatalytic current density and charge storage capacity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12648.	1.3	34
4069	Photocatalytic Production of Renewable Hydrogen. , 2013, , 495-527.		0
4070	Innovative Photocatalysts for Solar Fuel Generation by CO <sub>2</sub> Reduction. , 2013, , 219-241.		2
4071	Nanocrystal Assembly of Hierarchical Porous Architecture for Photocatalysis. , 2013, , 417-441.		1
4072	Photocatalysts for Solar Hydrogen Conversion. , 2013, , 191-217.		2
4073	Current Development of Photocatalysts for Solar Energy Conversion. , 2013, , 279-304.		2
4074	Self-Ordered Titanium Dioxide Nanotube Arrays: Anodic Synthesis and Their Photo/Electro-Catalytic Applications. <i>Materials</i> , 2013, 6, 2892-2957.	1.3	92
4075	Mini review on photocatalysis of titanium dioxide nanoparticles and their solar applications. <i>Nano Energy</i> , 2013, 2, 1031-1045.	8.2	348
4076	Imbibition of polypyrrole into three-dimensional poly(hydroxyethyl methacrylate/glycerol) gel electrolyte for robust quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8055.	5.2	57
4077	Efficient solar water splitting by enhanced charge separation in a bismuth vanadate-silicon tandem photoelectrode. <i>Nature Communications</i> , 2013, 4, 2195.	5.8	1,137
4078	Synthesis and Characterization of D-π-A Type Organic Dyes Bearing Carbazole as a Donor Moiety (D-π-D) for Efficient Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5051-5063.	1.2	55
4079	Influence of the Aggregation of a Carbazole Thiophene Cyanoacrylate Sensitizer on Sensitized Photocurrents on ZnO Single Crystals. <i>Langmuir</i> , 2013, 29, 9362-9368.	1.6	16

#	ARTICLE	IF	CITATIONS
4080	An efficient thiolate/disulfide redox couple based dye-sensitized solar cell with a graphene modified mesoscopic carbon counter electrode. <i>Carbon</i> , 2013, 53, 11-18.	5.4	38
4081	<i>In Situ</i> Loading Transition Metal Oxide Clusters on TiO <sub>2</sub> Nanosheets As Co-catalysts for Exceptional High Photoactivity. <i>ACS Catalysis</i> , 2013, 3, 2052-2061.	5.5	151
4082	Ruthenium(II) and Osmium(II) Complexes Bearing Bipyridine and the N-Heterocyclic Carbene-Based C <sup>N</sup> C Pincer Ligand: An Experimental and Density Functional Theory Study. <i>Inorganic Chemistry</i> , 2013, 52, 9885-9896.	1.9	55
4083	A promising anchor group for efficient organic dye sensitized solar cells with iodine-free redox shuttles: a theoretical evaluation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14000.	5.2	62
4085	The potential of eutectic mixtures as environmentally friendly, solvent-free electrolytes for dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 6922.	1.7	18
4086	Theory of Photoinjection of Hot Plasmonic Carriers from Metal Nanostructures into Semiconductors and Surface Molecules. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16616-16631.	1.5	499
4087	High performance dye sensitized solar cells by adding titanate co-adsorbant. <i>RSC Advances</i> , 2013, 3, 20488.	1.7	2
4088	Water-splitting Catalysis and Solar Fuel Devices: Artificial Leaves on the Move. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10426-10437.	7.2	421
4089	Quantum chemical modeling of components of dye-sensitized solar cells. <i>Moscow University Chemistry Bulletin</i> , 2013, 68, 77-79.	0.2	2
4090	HFCVD grown graphene like carbon-nickel nanocomposite thin film as effective counter electrode for dye sensitized solar cells. <i>Materials Research Bulletin</i> , 2013, 48, 4538-4543.	2.7	9
4091	Synthesis of Pt@NH <sub>2</sub> -MIL-125(Ti) as a photocathode material for photoelectrochemical hydrogen production. <i>RSC Advances</i> , 2013, 3, 19820.	1.7	36
4092	Julolidine dyes with different acceptors and thiophene-conjugation bridge: Design, synthesis and their application in dye-sensitized solar cells. <i>Synthetic Metals</i> , 2013, 180, 9-15.	2.1	31
4093	Functionalized graphene/poly(3,4-ethylenedioxythiophene):polystyrenesulfonate as counter electrode catalyst for dye-sensitized solar cells. <i>Energy</i> , 2013, 54, 315-321.	4.5	94
4094	A microporous platinum counter electrode used in dye-sensitized solar cells. <i>Nano Energy</i> , 2013, 2, 622-627.	8.2	90
4095	Nanostructured CuO/SrTiO <sub>3</sub> bilayered thin films for photoelectrochemical water splitting. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2531-2538.	1.2	24
4096	Architectural influence of carbazole push-pull dyes on dye sensitized solar cells. <i>Dyes and Pigments</i> , 2013, 99, 787-797.	2.0	20
4097	Asymmetric Tribranched Dyes: An Intramolecular Cosensitization Approach for Dye-sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 6793-6801.	1.2	36
4098	Ionic current devices—Recent progress in the merging of electronic, microfluidic, and biomimetic structures. <i>Biomicrofluidics</i> , 2013, 7, 31501.	1.2	35

#	ARTICLE	IF	CITATIONS
4099	A novel hierarchical ZnO disordered/ordered bilayer nanostructured film for dye sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2013, 581, 610-615.	2.8	13
4100	Regenerable Photovoltaic Devices with a Hydrogel-Embedded Microvascular Network. <i>Scientific Reports</i> , 2013, 3, 2357.	1.6	28
4101	Carbon Nanohorns as Integrative Materials for Efficient Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2013, 25, 6513-6518.	11.1	46
4102	Monolithic all-solid-state dye-sensitized solar cells. <i>Frontiers of Optoelectronics</i> , 2013, 6, 359-372.	1.9	12
4103	Hydrothermal growth of ligand-passivated high-surface-area TiO <sub>2</sub> nanoparticles and dye-sensitized solar cell characteristics. <i>Scripta Materialia</i> , 2013, 68, 396-399.	2.6	11
4104	Dye-sensitized solar cell based on AZO/Ag/AZO multilayer transparent conductive oxide film. <i>Journal of Alloys and Compounds</i> , 2013, 556, 121-126.	2.8	31
4105	Ultrafast Interfacial Charge-Transfer Dynamics in a Donor-Acceptor Chromophore Sensitized TiO <sub>2</sub> Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4824-4835.	1.5	33
4106	Determination of Sensitizer Regeneration Efficiency in Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 8233-8242.	7.3	58
4107	Hydroxyethyl and ester co-functionalized imidazolium iodide for highly efficient solid-state dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 9446.	2.2	17
4108	Humidity effect on photocatalytic activity of TiO <sub>2</sub> and regeneration of deactivated photocatalysts. <i>Applied Surface Science</i> , 2013, 271, 164-170.	3.1	72
4109	Trap and Transfer. Two-Step Hole Injection Across the Sb <sub>2</sub> S <sub>3</sub> /CuSCN Interface in Solid-State Solar Cells. <i>ACS Nano</i> , 2013, 7, 7967-7974.	7.3	131
4110	Water oxidation catalysts based on abundant 1st row transition metals. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2607-2622.	9.5	367
4111	A Molecular Mechanism for the Water-Hydroxyl Balance during Wetting of TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 17078-17083.	1.5	22
4112	Pyrite nanorod arrays as an efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11828.	5.2	58
4113	Comparative optical study of colloidal anatase titania nanorods and atomically thin wires. <i>Nanoscale</i> , 2013, 5, 1465.	2.8	15
4114	Simple hydrothermal preparation of nanofibers from a natural ilmenite mineral. <i>Ceramics International</i> , 2013, 39, 2497-2502.	2.3	26
4115	Density functional study of mono-branched and di-branched di-anchoring triphenylamine cyanoacrylic dyes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 253, 62-71.	2.0	17
4116	A novel synthesis of CNTs/TiO <sub>2</sub> nanocomposites with enhanced performance as photoanode of solar cell. <i>Materials Letters</i> , 2013, 109, 240-242.	1.3	2

#	ARTICLE	IF	CITATIONS
4117	Transparent conducting oxide free dye sensitized solar cell using flexible stainless steel mesh. <i>Journal of Alloys and Compounds</i> , 2013, 578, 609-612.	2.8	9
4118	Layered Perovskite Sr <sub>2</sub> Ta <sub>2</sub> O <sub>7</sub> for Visible Light Photocatalysis: A First Principles Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5043-5050.	1.5	47
4119	Effects of controlled surface treatment on titanium dioxide electrode nanostructure for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 371-380.	1.1	7
4120	A composite electrode of TiO <sub>2</sub> nanotubes and nanoparticles synthesised by hydrothermal treatment for use in dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 11001.	1.7	11
4121	Highly Stable Photoelectrochemical Water Splitting and Hydrogen Generation Using a Double-Band InGaN/GaN Core/Shell Nanowire Photoanode. <i>Nano Letters</i> , 2013, 13, 4356-4361.	4.5	186
4122	Tailoring structural and electronic properties of RuO <sub>2</sub> nanotubes: a many-body approach and electronic transport. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14715.	1.3	23
4123	An efficient In <sub>0.30</sub> Ga <sub>0.70</sub> N photoelectrode by decreasing the surface recombination centres in a H <sub>2</sub> SO <sub>4</sub> aqueous solution. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 345103.	1.3	6
4124	Role of interfacial elasticity of microemulsions on the morphology of TiO <sub>2</sub> nanostructures: stiff templates versus flexible templates. <i>Colloid and Polymer Science</i> , 2013, 291, 835-844.	1.0	7
4125	A dye-sensitized solar cell based on PEDOT:PSS counter electrode. <i>Science Bulletin</i> , 2013, 58, 559-566.	1.7	36
4126	Molecular design of TPD-based organic A-D-A dyes for dye-sensitized solar cells. <i>Chemical Research in Chinese Universities</i> , 2013, 29, 355-360.	1.3	7
4127	Influence of cyclic versus acyclic oxygen-containing electron donor ancillary ligands on the photocurrent, photovoltage and photostability for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13679.	5.2	30
4128	A H <sub>2</sub> -evolving photocathode based on direct sensitization of MoS <sub>3</sub> with an organic photovoltaic cell. <i>Energy and Environmental Science</i> , 2013, 6, 2706.	15.6	83
4129	Raman Spectroscopic Investigation on TiO <sub>2</sub> N719 Dye Interfaces Using Ag@TiO <sub>2</sub> Nanoparticles and Potential Correlation Strategies. <i>ChemPhysChem</i> , 2013, 14, 2217-2224.	1.0	36
4130	Enhancing the activity of a SiC-TiO <sub>2</sub> composite catalyst for photo-stimulated catalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3898-3904.	3.8	58
4131	Photochemical Water Splitting Using Nanostructured Metal Oxides. , 2013, , 587-614.		3
4132	Theoretical studies on organoimido-substituted hexamolybdates dyes for dye-sensitized solar cells (DSSC). <i>Dyes and Pigments</i> , 2013, 99, 440-446.	2.0	74
4133	Tuning the electronic structures and related properties of Ruthenium-based dye sensitizers by ligands: A theoretical study and design. <i>Computational and Theoretical Chemistry</i> , 2013, 1017, 99-108.	1.1	15
4134	Connection style and spectroscopic properties: Theoretical understanding of the interface between N749 and TiO <sub>2</sub> in DSSCs. <i>Dyes and Pigments</i> , 2013, 99, 201-208.	2.0	17



#	ARTICLE	IF	CITATIONS
4135	Metal free sensitizer and catalyst for dye sensitized solar cells. Energy and Environmental Science, 2013, 6, 3439.	15.6	365
4136	Portraits of colloidal hybrid nanostructures: Controlled synthesis and potential applications. Colloids and Surfaces B: Biointerfaces, 2013, 103, 326-344.	2.5	24
4137	Electronic and optical properties of Cr and Cr <sup>N</sup> doped anatase TiO <sub>2</sub> from screened Coulomb hybrid calculations. Journal of Physics Condensed Matter, 2013, 25, 365502.	0.7	7
4138	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. Energy and Environmental Science, 2013, 6, 3467.	15.6	73
4139	Cyano or o-nitrophenyl? Which is the optimal electron-withdrawing group for the acrylic acid acceptor of D- $\pi$ -A sensitizers in DSSCs? A density functional evaluation. Journal of Molecular Modeling, 2013, 19, 1597-1604.	0.8	29
4140	Extending the limits of Bacillus for novel biotechnological applications. Biotechnology Advances, 2013, 31, 1543-1561.	6.0	212
4141	Flexible Transparent and Free-Standing Silicon Nanowires Paper. Nano Letters, 2013, 13, 4708-4714.	4.5	66
4142	Photoelectrochemical Water Splitting. SpringerBriefs in Energy, 2013, , .	0.2	329
4143	Prediction of (TiO <sub>2</sub> ) <sub>x</sub> (Cu <sub>2</sub> O) <sub>y</sub> alloys for efficient photoelectrochemical water splitting. Physical Chemistry Chemical Physics, 2013, 15, 1778-1781.	1.3	17
4144	Synthesis and characterization of novel series of Fe(II)-mixed ligand complexes involving 2,2'-bipyridyl ligand. Dyes and Pigments, 2013, 99, 1056-1064.	2.0	17
4145	Electrochemical fabrication of ZnO@CdSe core-shell nanorod arrays for efficient photoelectrochemical water splitting. Nanoscale, 2013, 5, 11118.	2.8	92
4146	Dye-sensitized solar cells based on hydroquinone/benzoquinone as bio-inspired redox couple with different counter electrodes. Physical Chemistry Chemical Physics, 2013, 15, 15146.	1.3	19
4147	Cationic-anionic mediated charge compensation on La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> for visible light photocatalysis. Physical Chemistry Chemical Physics, 2013, 15, 17150.	1.3	21
4148	Surface potentials of (001), (012), (113) hematite ( $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> ) crystal faces in aqueous solution. Physical Chemistry Chemical Physics, 2013, 15, 13911.	1.3	79
4149	A study of TiO <sub>2</sub> /carbon black composition as counter electrode materials for dye-sensitized solar cells. Nanoscale Research Letters, 2013, 8, 227.	3.1	50
4150	Annealing effect on Sb <sub>2</sub> S <sub>3</sub> -TiO <sub>2</sub> nanostructures for solar cell applications. Nanoscale Research Letters, 2013, 8, 89.	3.1	27
4151	Efficient PbS/CdS co-sensitized solar cells based on TiO <sub>2</sub> nanorod arrays. Nanoscale Research Letters, 2013, 8, 67.	3.1	43
4152	Review on Recent Progress on Sandwich Structure Hybrid Solar Cells. Energy Technology, 2013, 1, 382-391.	1.8	1

#	ARTICLE	IF	CITATIONS
4153	In situ measurement of dye adsorption on TiO <sub>2</sub> thin films for dye-sensitized solar cells. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1692-1697.	2.5	12
4154	One-step synthesis of crystalline anatase TiO <sub>2</sub> nanospindles and investigation on their photocatalytic performance. Materials Letters, 2013, 100, 198-200.	1.3	10
4155	Synthesis and characterization of dianchoring organic dyes containing 2,7-diaminofluorene donors as efficient sensitizers for dye-sensitized solar cells. Organic Electronics, 2013, 14, 3267-3276.	1.4	22
4156	Cu <sub>x</sub> Ga <sub>1-x</sub> Se <sub>2</sub> as an efficient photocathode for solar hydrogen generation. International Journal of Hydrogen Energy, 2013, 38, 15027-15035.	3.8	52
4157	Single-crystalline, wormlike hematite photoanodes for efficient solar water splitting. Scientific Reports, 2013, 3, 2681.	1.6	580
4158	Study of the efficiency improvement in power generation from Photovoltaic. , 2013, , .		4
4159	Dense TiO <sub>2</sub> films grown by sol-gel dip coating on glass, F-doped SnO <sub>2</sub> , and silicon substrates. Journal of Materials Research, 2013, 28, 385-393.	1.2	12
4160	Phenothiazine-based dyes with bilateral extension of $\pi$ -conjugation for efficient dye-sensitized solar cells. Dyes and Pigments, 2013, 96, 722-731.	2.0	82
4161	Adsorption and electrochemical properties of photoelectrodes depending on TiO <sub>2</sub> film thickness for dye-sensitized solar cells. Journal of Electroanalytical Chemistry, 2013, 708, 39-45.	1.9	15
4162	Facile Fabrication of TiO <sub>2</sub> /SrTiO <sub>3</sub> Composite Nanofibers by Electrospinning for High Efficient H <sub>2</sub> Generation. Journal of the American Ceramic Society, 2013, 96, 942-949.	1.9	46
4163	Between photocatalysis and photosynthesis: Synchrotron spectroscopy methods on molecules and materials for solar hydrogen generation. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 93-105.	0.8	18
4164	Anion-Doped Mixed Metal Oxide Nanostructures Derived from Layered Double Hydroxide as Visible Light Photocatalysts. Advanced Functional Materials, 2013, 23, 2348-2356.	7.8	86
4165	Surfactant free most probable TiO <sub>2</sub> nanostructures via hydrothermal and its dye sensitized solar cell properties. Scientific Reports, 2013, 3, 3004.	1.6	97
4166	Linear-scaling time-dependent density-functional theory in the linear response formalism. Journal of Chemical Physics, 2013, 139, 064104.	1.2	59
4167	Electronic and optical performances of Si and Fe-codoped TiO <sub>2</sub> nanoparticles: A photocatalyst for the degradation of methylene blue. Applied Catalysis B: Environmental, 2013, 142-143, 38-44.	10.8	24
4168	Characterization of polyaniline counter electrodes for dye-sensitized solar cells. Surface and Coatings Technology, 2013, 231, 171-175.	2.2	22
4169	Effect of Al <sup>3+</sup> on the growth of ZnO nanograin film and its application in dye-sensitized solar cells. Ceramics International, 2013, 39, 9637-9644.	2.3	18
4170	Wheel-shaped indium telluride nanoclusters co-crystallized with metal-phenanthroline complexes. Polyhedron, 2013, 52, 645-649.	1.0	8

#	ARTICLE	IF	CITATIONS
4171	First-principles study on strontium titanate for visible light photocatalysis. <i>Chemical Physics Letters</i> , 2013, 555, 141-144.	1.2	24
4172	Surface photovoltage measurements: A quick assessment of the photocatalytic activity?. <i>Catalysis Today</i> , 2013, 209, 215-220.	2.2	21
4173	Photophysical studies on Dâ€“â€“A dye-sensitized solar cells: Effects of ï€-bridge and hexyloxy side chains in donor moieties. <i>Organic Electronics</i> , 2013, 14, 1037-1044.	1.4	10
4175	Enhancement of photovoltaic performance in dye-sensitized solar cells fabricated with dendritic photosensitizer containing site-isolated chromophores. <i>Dyes and Pigments</i> , 2013, 99, 986-994.	2.0	18
4176	Chemical Solution Deposition of Functional Oxide Thin Films. , 2013, , .		139
4177	Two-step annealed CdS/CdSe co-sensitizers for quantum dot-sensitized solar cells. <i>Current Applied Physics</i> , 2013, 13, 1532-1536.	1.1	9
4178	Influence of Sodium Halides (NaF, NaCl, NaBr, NaI) on the Photocatalytic Performance of Hydrothermally Synthesized Hematite Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7937-7949.	4.0	23
4179	Single inorganic-organic hybrid photovoltaic nanorod. <i>Applied Physics Letters</i> , 2013, 103, 143101.	1.5	5
4180	Cobalt phosphate-modified barium-doped tantalum nitride nanorod photoanode with 1.5% solar energy conversion efficiency. <i>Nature Communications</i> , 2013, 4, 2566.	5.8	306
4181	Plasmon-enhanced photocurrent in quasi-solid-state dye-sensitized solar cells by the inclusion of gold/silica coreâ€“shell nanoparticles in a TiO <sub>2</sub> photoanode. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12627.	5.2	24
4182	Increased charge transfer of PVDF-HFP based electrolyte by addition of graphite nanofiber and its application in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2013, 287, 8-12.	3.1	27
4183	Effects of catalyst material and atomic layer deposited TiO <sub>2</sub> oxide thickness on the water oxidation performance of metalâ€“insulatorâ€“silicon anodes. <i>Energy and Environmental Science</i> , 2013, 6, 2487.	15.6	163
4184	Influence of conformation on the absorption spectra of flexible organic dyes used in dye-sensitized solar cells. <i>Computational and Theoretical Chemistry</i> , 2013, 1014, 29-36.	1.1	3
4185	Hybrid organic PVDFâ€“inorganic Mâ€“rGOâ€“TiO <sub>2</sub> (M = Ag, Pt) nanocomposites for multifunctional volatile organic compound sensing and photocatalytic degradationâ€“H <sub>2</sub> production. <i>Nanoscale</i> , 2013, 5, 11283.	2.8	67
4186	Efficient gel-state dye-sensitized solar cells adopting polymer gel electrolyte based on poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	33
4187	Mesoporous TiO <sub>2</sub> Single Crystals: Facile Shape-, Size-, and Phase-Controlled Growth and Efficient Photocatalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11249-11257.	4.0	116
4188	Ab initio design of GaN-based photocatalyst: ZnO-codoped GaN nanotubes. <i>Journal of Power Sources</i> , 2013, 232, 323-331.	4.0	22
4189	CdS/CdSe quantum dots co-sensitized solar cells with Cu <sub>2</sub> S counter electrode prepared by SILAR, spray pyrolysis and Znâ€“Cu alloy methods. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 271, 56-64.	2.0	58

#	ARTICLE	IF	CITATIONS
4190	Recent Advances in Phthalocyanine-Based Sensitizers for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 6475-6489.	1.2	211
4191	Combined Charge Carrier Transport and Photoelectrochemical Characterization of BiVO <sub>4</sub> Single Crystals: Intrinsic Behavior of a Complex Metal Oxide. <i>Journal of the American Chemical Society</i> , 2013, 135, 11389-11396.	6.6	435
4192	Plasmon-induced photonic and energy-transfer enhancement of solar water splitting by a hematite nanorod array. <i>Nature Communications</i> , 2013, 4, 2651.	5.8	427
4193	A high performance Pt-free counter electrode of nickel sulfide/multi-wall carbon nanotube/titanium used in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13885.	5.2	89
4194	Surfactant influence in the performance of titanium dioxide photoelectrodes for dye-sensitized solar cells. <i>Solar Energy</i> , 2013, 91, 263-272.	2.9	32
4195	Chemical and photochemical formation of gold nanoparticles supported on viologen-functionalized SBA-15. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 437, 120-126.	2.3	26
4196	Multi-band photoluminescence in TiO <sub>2</sub> nanoparticles-assembled films produced by femtosecond pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	36
4197	Comparative computational IR, Raman and phosphorescence study of Ru- and Rh-based complexes. <i>Molecular Physics</i> , 2013, 111, 1526-1538.	0.8	6
4198	Core-Shell Nanostructured Black-Rutile Titania as Excellent Catalyst for Hydrogen Production Enhanced by Sulfur Doping. <i>Journal of the American Chemical Society</i> , 2013, 135, 17831-17838.	6.6	425
4199	Morphological, structural and optical properties of Al-doped ZnO nanosheet arrays influenced by pulsed electromagnetic field. <i>Micro and Nano Letters</i> , 2013, 8, 119-122.	0.6	1
4200	Dispersive Electron-Transfer Kinetics from Single Molecules on TiO <sub>2</sub> Nanoparticle Films. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21075-21085.	1.5	26
4201	Enhanced charge transportation in a polypyrrole counter electrode via incorporation of reduced graphene oxide sheets for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 546-552.	1.3	84
4202	Bulky dendritic triarylamine-based organic dyes for efficient co-adsorbent-free dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2013, 237, 195-203.	4.0	49
4203	Boron-Doped Graphene: Scalable and Tunable p-Type Carrier Concentration Doping. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23251-23257.	1.5	108
4204	Studies of a supramolecular photoelectrochemical cell using magnesium tetraphenylporphyrin as photosensitizer. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013, 17, 733-741.	0.4	4
4205	The luminescence properties of Bi <sup>3+</sup> sensitized Gd <sub>2</sub> MoO <sub>6</sub> :RE <sup>3+</sup> (RE = Eu or Sm) phosphors for solar spectral conversion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 767-771.	2.0	48
4206	Photocathodic behavior of ferroelectric Pb(Zr,Ti)O <sub>3</sub> films decorated with silver nanoparticles. <i>Chemical Communications</i> , 2013, 49, 3769.	2.2	40
4207	Highly Ordered TiO <sub>2</sub> Nanotubes for Electrochemical Sensing of Hair Dye Basic Brown 17. <i>Electroanalysis</i> , 2013, 25, 2507-2514.	1.5	10

#	ARTICLE	IF	CITATIONS
4208	Electrospray Dense Suspensions of TiO <sub>2</sub> Nanoparticles for Dye Sensitized Solar Cells. <i>Aerosol Science and Technology</i> , 2013, 47, 1302-1309.	1.5	23
4209	A highly crystalline Nb <sub>3</sub> O <sub>7</sub> F nanostructured photoelectrode: fabrication and photosensitisation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6563.	5.2	29
4210	Effects of acid catalyst type on structural, morphological, and optoelectrical properties of spin-coated TiO <sub>2</sub> thin film. <i>Physica B: Condensed Matter</i> , 2013, 413, 40-46.	1.3	26
4211	Effects of RF and pulsed DC sputtered TiO <sub>2</sub> compact layer on the performance dye-sensitized solar cells. <i>Surface and Coatings Technology</i> , 2013, 231, 126-130.	2.2	24
4212	An Inorganic Chromophore Based on a Molecular Oxide Supported Metal Carbonyl Cluster: [P <sub>2</sub> W <sub>17</sub> O <sub>61</sub> {Re(CO) <sub>3</sub> } <sub>3</sub> {ORb(H <sub>2</sub> O)} <sub>3</sub> {(1/4)3-OH}] <sub>9</sub> . <i>Inorganic Chemistry</i> , 2013, 52, 13490-13495.	1.9	24
4213	Revealing the Relationship between Semiconductor Electronic Structure and Electron Transfer Dynamics at Metal Oxide-Chromophore Interfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25259-25268.	1.5	45
4214	Optical Absorption and Band Gap Reduction in (Fe <sub>1-x</sub> Cr <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> Solid Solutions: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25504-25512.	1.5	43
4215	Influence of Cationic Precursors on CdS Quantum-Dot-Sensitized Solar Cell Prepared by Successive Ionic Layer Adsorption and Reaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26948-26956.	1.5	76
4217	Deposition of TiO <sub>2</sub> Blocking Layers of Photovoltaic Cell Using RF Magnetron Sputtering Technology. <i>Energy Procedia</i> , 2013, 34, 582-588.	1.8	17
4218	Fabrication and Photoelectrochemical Characterization of Fe, Co, Ni and Cu-Doped TiO <sub>2</sub> Thin Films. <i>Materials Science Forum</i> , 2013, 764, 266-283.	0.3	8
4219	Soft processing of hierarchical oxide nanostructures for dye-sensitized solar cell applications. <i>Nano Energy</i> , 2013, 2, 1354-1372.	8.2	25
4220	Parameter studies of the synthesis of titanium dioxide nanoparticles: Effect on particle formation and size. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 74, 83-89.	1.8	14
4221	Monolithic quasi-solid-state dye-sensitized solar cells based on graphene-modified mesoscopic carbon-counter electrodes. <i>Journal of Nanophotonics</i> , 2013, 7, 073090.	0.4	25
4222	Chemically modified titanium oxide nanostructures for dye-sensitized solar cells. <i>Nano Energy</i> , 2013, 2, 1373-1382.	8.2	21
4223	CHAPTER 1. Computational Modeling of Photocatalytic Cells. <i>RSC Energy and Environment Series</i> , 2013, , 1-36.	0.2	1
4224	<i>Nanoenergy.</i> , 2013, , .		5
4225	Potassium-induced surface modification of Cu(In,Ga)Se <sub>2</sub> thin films for high-efficiency solar cells. <i>Nature Materials</i> , 2013, 12, 1107-1111.	13.3	1,161
4226	Electron Injection Dynamics from Photoexcited Porphyrin Dyes into SnO <sub>2</sub> and TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21662-21670.	1.5	54

#	ARTICLE	IF	CITATIONS
4227	A Facile Measurement of Heterogeneous Electron Transfer Kinetics. <i>Analytical Chemistry</i> , 2013, 85, 10920-10926.	3.2	6
4228	Enhanced Photovoltaic Performance of Semiconductor-Sensitized ZnO/CdS Coupled with Graphene Oxide as a Novel Photoactive Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11673-11682.	4.0	56
4229	Design and Synthesis of High Performance Multifunctional Ultrathin Hematite Nanoribbons. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11995-12004.	4.0	48
4230	Electron Transport Dynamics in TiO <sub>2</sub> Films Deposited on Ti Foils for Back-Illuminated Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11958-11964.	4.0	9
4231	Site-Dependent Free Energy Barrier for Proton Reduction on MoS <sub>2</sub> Edges. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21772-21777.	1.5	26
4232	Hierarchical Macroporous Zn <sub>2</sub> SnO <sub>4</sub> /ZnO Nanorod Composite Photoelectrodes for Efficient CdS/CdSe Quantum Dot Co-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11865-11871.	4.0	43
4233	High electrocatalytic activity of self-standing hollow NiCo <sub>2</sub> S <sub>4</sub> single crystalline nanorod arrays towards sulfide redox shuttles in quantum dot-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 11734.	2.2	154
4234	Spectroscopic Investigation of Photoinduced Charge-Transfer Processes in FTO/TiO <sub>2</sub> /N719 Photoanodes with and without Covalent Attachment through Silane-Based Linkers. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13513-13523.	1.1	30
4235	Electron Hopping through TiO <sub>2</sub> Powder: A Study by Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24189-24195.	1.5	37
4236	Transport Properties of Molecular Junctions. <i>Springer Tracts in Modern Physics</i> , 2013, , .	0.1	22
4237	Hydrogenated TiO <sub>2</sub> film for enhancing photovoltaic properties of solar cells and self-sensitized effect. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	31
4238	Synthesis and characterisation of thin-film TiO <sub>2</sub> dye-sensitised solar cell. <i>Ceramics International</i> , 2013, 39, 1519-1523.	2.3	20
4239	Syntheses and structural characterization of new heteroleptic 1,1'-bis(diphenylphosphino)ferrocene-dithio complexes of Ni, Pd and Pt: Their uses as sensitizers in TiO <sub>2</sub> dye sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , 2013, 745-746, 190-200.	0.8	17
4240	The Application of ZnO Nanoparticles Containing Polyoxometalates in Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1951-1959.	1.0	22
4241	Novel three-layer TiO <sub>2</sub> nanoparticle stacking architecture for efficient dye-sensitized solar cells. <i>Organic Electronics</i> , 2013, 14, 2866-2874.	1.4	19
4242	Two-dimensional nanosheets for photoelectrochemical water splitting: Possibilities and opportunities. <i>Nano Today</i> , 2013, 8, 598-618.	6.2	326
4243	Preparation and performance of organic-inorganic halide perovskites. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 4862-4867.	1.1	7
4244	Formation of anodic TiO <sub>2</sub> nanotube arrays with bimodal pore size distribution. <i>Electrochemistry Communications</i> , 2013, 31, 67-70.	2.3	12

#	ARTICLE	IF	CITATIONS
4245	Efficiency of Interfacial Electron Transfer from Zn-Porphyrin Dyes into TiO <sub>2</sub> Correlated to the Linker Single Molecule Conductance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24462-24470.	1.5	55
4246	Accelerated Electrochemical Decomposition of Li <sub>2</sub> O <sub>2</sub> under X-ray Illumination. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4045-4050.	2.1	11
4247	Facile Synthesis of Poly(3,4-ethylenedioxythiophene) Film via Solid-State Polymerization as High-Performance Pt-Free Counter Electrodes for Plastic Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8423-8429.	4.0	68
4248	Application of graphene-based nanostructures in dye-sensitized solar cells. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2643-2648.	0.7	26
4249	New Donor-Acceptor Type Triazatruxene Derivatives for Highly Efficient Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2013, 15, 6034-6037.	2.4	64
4250	Tuning Solvatochromism of Azo Dyes with Intramolecular Hydrogen Bonding in Solution and on Titanium Dioxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26316-26323.	1.5	35
4251	Direct Work Function Measurement by Gas Phase Photoelectron Spectroscopy and Its Application on PbS Nanoparticles. <i>Nano Letters</i> , 2013, 13, 6176-6182.	4.5	128
4252	Effect of electron withdrawing anchoring groups on the optoelectronic properties of pyrene sensitizers and their interaction with TiO <sub>2</sub> : A combined experimental and theoretical approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 271, 31-44.	2.0	30
4253	Carbon doped TiO <sub>2</sub> nanotubes photoanodes prepared by in-situ anodic oxidation of Ti-foil in acidic and organic medium with photocurrent enhancement. <i>Ceramics International</i> , 2013, 39, 3731-3739.	2.3	14
4254	Plasmonic nanoparticles enhanced dye-sensitized solar cells. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
4255	Novel dithieno[3,2-b:2',3'-d]pyrrole-based organic dyes with high molar extinction coefficient for dye-sensitized solar cells. <i>Organic Electronics</i> , 2013, 14, 2071-2081.	1.4	58
4256	Electronic structure study of N, O related defects in GaP for photoelectrochemical applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8425.	5.2	4
4257	A fast dye sucking method for dye-sensitized solar cell fabrication. , 2013, , .		0
4258	Effect of variation of precursor concentration on structural, microstructural, optical and gas sensing properties of nanocrystalline TiO <sub>2</sub> thin films prepared by spray pyrolysis techniques. <i>Bulletin of Materials Science</i> , 2013, 36, 1153-1160.	0.8	8
4259	Current density enhancement in ZnO/CdSe photoelectrochemical cells in the presence of a charge separating SnO <sub>2</sub> nanoparticles interfacing-layer. <i>Dalton Transactions</i> , 2013, 42, 13065.	1.6	14
4260	Multilayer Assembly for Solar Energy Conversion. <i>Structure and Bonding</i> , 2013, , 55-99.	1.0	1
4261	Novel three-dimensional TiO <sub>2</sub> nanomesh synthesized by a one-pot hydrothermal method for application in dye sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 23389.	1.7	11
4262	Dye-sensitized solar cells with high-performance polyaniline/multi-wall carbon nanotube counter electrodes electropolymerized by a pulse potentiostatic technique. <i>Journal of Power Sources</i> , 2013, 233, 320-325.	4.0	83

#	ARTICLE	IF	CITATIONS
4263	Molten-Salt-Assisted Self-Assembly (MASA) Synthesis of Mesoporous Metal Titanate/Titania, Metal Sulfide/Titania, and Metal Selenide/Titania Thin Films. <i>Advanced Functional Materials</i> , 2013, 23, 4002-4010.	7.8	36
4264	Efficient dye-sensitized solar cells based on cosensitized metal free organic dyes with complementary absorption spectra. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	15
4265	Strong upconversion luminescence in LiYMo <sub>2</sub> O <sub>8</sub> :Er, Yb towards efficiency enhancement of dye-sensitized solar cells. <i>Optical Materials</i> , 2013, 35, 2338-2342.	1.7	29
4266	In Situ Synchrotron X-Ray Techniques for Real-Time Probing of Colloidal Nanoparticle Synthesis. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 399-419.	1.2	65
4267	Three-dimensional ordered macroporous carbon as counter electrodes in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2013, 539, 122-126.	0.8	20
4268	From 1D Chain to 3D Network: A New Family of Inorganic-Organic Hybrid Semiconductors MO <sub>3</sub> (L) <sub>x</sub> (M = Mo, W; L = Organic Linker) Built on Perovskite-like Structure Modules. <i>Journal of the American Chemical Society</i> , 2013, 135, 17401-17407.	6.6	47
4269	Amorphous Si Thin Film Based Photocathodes with High Photovoltage for Efficient Hydrogen Production. <i>Nano Letters</i> , 2013, 13, 5615-5618.	4.5	151
4270	Synergistic assembly of nanoparticle aggregates and texture nanosheets into hierarchical TiO <sub>2</sub> core-shell structures for enhanced light harvesting in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6175.	5.2	9
4271	ZnO nanoneedle/H <sub>2</sub> O solid-liquid heterojunction-based self-powered ultraviolet detector. <i>Nanoscale Research Letters</i> , 2013, 8, 415.	3.1	55
4272	Use of co-spray pyrolysis for synthesizing nitrogen-doped TiO <sub>2</sub> films. <i>Bulletin of Materials Science</i> , 2013, 36, 827-831.	0.8	2
4273	In situ growth of CuInS <sub>2</sub> nanocrystals on nanoporous TiO <sub>2</sub> film for constructing inorganic/organic heterojunction solar cells. <i>Nanoscale Research Letters</i> , 2013, 8, 354.	3.1	4
4274	Synthesis and photovoltaic performance of dihydrodibenzoazepine-based sensitizers with additional lateral anchor. <i>Dyes and Pigments</i> , 2013, 99, 1072-1081.	2.0	13
4275	Self-assembling behaviour of Pt nanoparticles onto surface of TiO <sub>2</sub> and their resulting photocatalytic activity. <i>Bulletin of Materials Science</i> , 2013, 36, 945-951.	0.8	9
4276	Post-annealing of CdS/ZnS-assembled TiO <sub>2</sub> films for photoelectrochemical solar cells. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2209-2214.	0.3	1
4277	Linear dichroism in ALD layers of TiO <sub>2</sub> . <i>Environmental Earth Sciences</i> , 2013, 70, 3785-3795.	1.3	9
4278	Compressibility of porous TiO <sub>2</sub> nanoparticle coating on paperboard. <i>Nanoscale Research Letters</i> , 2013, 8, 444.	3.1	10
4279	Electric field assisted aerosol assisted chemical vapour deposition of nanostructured metal oxide thin films. <i>Thin Solid Films</i> , 2013, 544, 452-456.	0.8	16
4280	Fabrication and photocatalysis of TiO <sub>2</sub> -graphene sandwich nanosheets with smooth surface and controlled thickness. <i>Chemical Engineering Journal</i> , 2013, 229, 569-576.	6.6	34



#	ARTICLE	IF	CITATIONS
4281	Conducting polymer and titanium carbide-based nanocomposites as efficient counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 105, 275-281.	2.6	34
4282	Highly Transparent Carbon Counter Electrode Prepared via an in Situ Carbonization Method for Bifacial Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7432-7438.	4.0	67
4283	Efficiency Enhancement of Dye-Sensitized Solar Cells by the Addition of an Oxidizing Agent to the TiO <sub>2</sub> Paste. <i>ChemSusChem</i> , 2013, 6, 2117-2123.	3.6	19
4284	Density Functional Theory (DFT) Study of Coumarin-based Dyes Adsorbed on TiO <sub>2</sub> Nanoclusters—Applications to Dye-Sensitized Solar Cells. <i>Materials</i> , 2013, 6, 2372-2392.	1.3	74
4285	Charge Transfer in CdSe Nanocrystal Complexes with an Electroactive Polymer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18870-18884.	1.5	17
4286	Shuttling Photoelectrochemical Electron Transport in Tricomponent CdS/rGO/TiO <sub>2</sub> Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20406-20414.	1.5	55
4287	Incorporation of Nonmetal Impurities at the AnataseTiO <sub>2</sub> (001) (1Å–4) Surface. <i>Physical Review Letters</i> , 2013, 110, 016101.	2.9	21
4288	Remarkable effects of primary amide substitution in the sensitizer: an efficient route to enhance the photocurrent density of the solar cell. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8716.	5.2	8
4289	On the engineering part of solar hydrogen production from water splitting: Photoreactor design. <i>Chemical Engineering Science</i> , 2013, 104, 125-146.	1.9	87
4290	Photoreduction of carbon dioxide in the presence of H <sub>2</sub> , H <sub>2</sub> O and CH <sub>4</sub> over TiO <sub>2</sub> and ZnO photocatalysts. <i>Solar Energy</i> , 2013, 97, 186-194.	2.9	52
4291	Study of the effects of UV-exposure on dye-sensitized solar cells. , 2013, , .		3
4292	Magnetically separable Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @TiO <sub>2</sub> -Ag microspheres with well-designed nanostructure and enhanced photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2013, 262, 404-411.	6.5	132
4293	Thiocyanate-free ruthenium(II) cyclometalated complexes containing uncommon thiazole and benzothiazole chromophores for dye-sensitized solar cells. <i>Journal of Organometallic Chemistry</i> , 2013, 748, 75-83.	0.8	25
4294	Nb-doped TiO <sub>2</sub> nanoparticles for organic dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 16380.	1.7	75
4295	Grafting of manganese phthalocyanine on nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2048-2054.	0.8	12
4296	Synthesis of TiO <sub>2</sub> Nanostructure by DC Reactive Magnetron Sputtering and Hydrothermal Technique. <i>Advanced Materials Research</i> , 0, 634-638, 2311-2313.	0.3	0
4297	Graphene: Synthesis, Transfer, and Characterization for Dye-Sensitized Solar Cells Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14160-14168.	1.8	38
4298	Substitution of Aromatics by Amines at Room Temperature with Negative Energy of Activation: Amino <i>per</i> -Arylenes as Metal-Free Components for Dye-Sensitized Solar Cells. <i>Journal of Organic Chemistry</i> , 2013, 78, 9883-9891.	1.7	28

#	ARTICLE	IF	CITATIONS
4299	High Conversion Efficiency of Dye-Sensitized Solar Cells Based on Coral-like TiO <sub>2</sub> Nanostructured Films: Synthesis and Physical Characterization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14837-14846.	1.8	29
4300	A review of PV/T technologies: Effects of control parameters. <i>International Journal of Heat and Mass Transfer</i> , 2013, 64, 483-500.	2.5	108
4301	Investigations on the influence of surfactant in morphology and optical properties of zinc oxide nanopowders for dye-sensitized solar cells applications. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1095-1104.	1.9	14
4302	Formation of double-layered TiO <sub>2</sub> structures with selectively-positioned molecular dyes for efficient flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 111, 261-267.	2.6	14
4303	How Light-Harvesting Semiconductors Can Alter the Bias of Reversible Electrocatalysts in Favor of H <sub>2</sub> Production and CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2013, 135, 15026-15032.	6.6	77
4304	Tailor-Made Hole-Conducting Coadsorbents for Highly Efficient Organic Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2013, 19, 15545-15555.	1.7	20
4305	Facile synthesis of Fe <sub>3</sub> O <sub>4</sub> @mesoporous TiO <sub>2</sub> microspheres for selective enrichment of phosphopeptides for phosphoproteomics analysis. <i>Talanta</i> , 2013, 105, 20-27.	2.9	44
4306	Recent molecular engineering of room temperature ionic liquid electrolytes for mesoscopic dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 23521.	1.7	18
4307	A Simple Photocell To Demonstrate Solar Energy Using Benign Household Ingredients. <i>Journal of Chemical Education</i> , 2013, 90, 1358-1361.	1.1	14
4308	Surface modification of anatase nanoparticles with fused ring salicylate-type ligands (3-hydroxy-2-naphthoic acids): a combined DFT and experimental study of optical properties. <i>Nanoscale</i> , 2013, 5, 7601.	2.8	46
4309	Ultrafast electron and energy transfer in dye-sensitized iron oxide and oxyhydroxide nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17303.	1.3	16
4310	Mass production of titanium oxide (TiO <sub>2</sub> ) nanosheets using a soft, solution process. <i>RSC Advances</i> , 2013, 3, 21343.	1.7	1
4311	Efficiency enhancement of TiO <sub>2</sub> nanodendrite array electrodes in CuInS <sub>2</sub> quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 111, 755-761.	2.6	30
4312	Three-dimensional ZnO/Si broom-like nanowire heterostructures as photoelectrochemical anodes for solar energy conversion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2561-2568.	0.8	9
4313	Effect of calcination temperature on structural and photocatalyst properties of nanofibers prepared from low-cost natural ilmenite mineral by simple hydrothermal method. <i>Materials Research Bulletin</i> , 2013, 48, 3211-3217.	2.7	19
4314	DFT/TD-DFT studies on structural and spectroscopic properties of metalloporphyrin complexes: A design of ruthenium porphyrin photosensitizer. <i>Computational and Theoretical Chemistry</i> , 2013, 1019, 94-100.	1.1	11
4315	Research Progress of Quantum Dot Solar Cell. <i>Applied Mechanics and Materials</i> , 2013, 320, 693-697.	0.2	0
4316	Improved performance of dye sensitized ZnO nanorod solar cells prepared using TiO <sub>2</sub> seed layer. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 420-427.	1.1	5

#	ARTICLE	IF	CITATIONS
4317	High Efficiency Cu(In,Ga)Se <sub>2</sub> Flexible Solar Cells Fabricated by Roll-to-Roll Metallic Precursor Co-sputtering Method. Japanese Journal of Applied Physics, 2013, 52, 092302.	0.8	14
4318	Preparation and photocatalytic activity of fluoroalkyl end-capped vinyltrimethoxysilane oligomer/anatase titanium oxide nanocomposite-encapsulated low molecular weight aromatic compounds. Colloid and Polymer Science, 2013, 291, 2947-2957.	1.0	6
4319	Plastic based dye-sensitized solar cells using Co9S8 acicular nanotube arrays as the counter electrode. Journal of Materials Chemistry A, 2013, 1, 13759.	5.2	44
4320	Si:WO <sub>3</sub> heterostructure for Z-scheme water splitting: an ab initio study. Journal of Materials Chemistry A, 2013, 1, 1078-1085.	5.2	32
4321	Energy and electron transfer processes in polymeric nanoparticles. Photochemical and Photobiological Sciences, 2013, 12, 2146-2159.	1.6	5
4322	4,4'-Unsymmetrically substituted-2,2'-bipyridines: novel bidentate ligands on ruthenium(ii) [3 + 2 + 1] mixed ligand complexes for efficient sensitization of nanocrystalline TiO <sub>2</sub> in dye solar cells. RSC Advances, 2013, 3, 26035.	1.7	9
4323	Phosphorus stimulated unidirectional growth of TiO <sub>2</sub> nanostructures. Journal of Materials Chemistry A, 2013, 1, 6091.	5.2	2
4324	One-step waferscale synthesis of 3-D ZnO nanosuperstructures by designed catalysts for substantial improvement of solar water oxidation efficiency. Journal of Materials Chemistry A, 2013, 1, 8111.	5.2	18
4325	Copper-indium-selenide quantum dot-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 20517.	1.3	69
4326	Ta <sub>3</sub> N <sub>5</sub> Nanowire Bundles as Visible-Light-Responsive Photoanodes. Chemistry - an Asian Journal, 2013, 8, 2354-2357.	1.7	17
4327	First-principles thermodynamic screening approach to photo-catalytic water splitting with co-catalysts. Journal of Chemical Physics, 2013, 139, 044710.	1.2	18
4328	Photoanode of nanostructured TiO <sub>2</sub> prepared by ultrasonic irradiation assisted of sol-gel with P-25 for dye-sensitized Solar Cells. , 2013, , .		3
4329	Computational identification of single-layer CdO for electronic and optical applications. Applied Physics Letters, 2013, 103, .	1.5	52
4330	Room-temperature Synthesis of High Surface Area Anatase TiO <sub>2</sub> Exhibiting a Complete Lithium Insertion Solid Solution. Particle and Particle Systems Characterization, 2013, 30, 1093-1104.	1.2	18
4331	Computational investigation of the adsorption and reactions of SiH <sub>4</sub> ( =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Chemistry, 2013, 113, 1696-1708.	1.0	4
4332	Study of electrical field distribution and growth of gradient-arrayed TiO <sub>2</sub> nanotubes by electrochemical anodization. , 2013, , .		2
4333	Dye Sensitized Solar Cell: A Summary. Materials Science Forum, 0, 771, 1-24.	0.3	16
4334	Computational design of concomitant type-I and type-II porphyrin sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 18471.	1.3	44

#	ARTICLE	IF	CITATIONS
4335	Topotactic conversion route to ultrafine crystalline TiO <sub>2</sub> nanotubes with optimizable electrochemical performance. <i>RSC Advances</i> , 2013, 3, 6531.	1.7	13
4336	Preparation and visible light induced photocatalytic activity of C-NaTaO <sub>3</sub> and C-NaTaO <sub>3</sub> @Cl-TiO <sub>2</sub> composite. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20633.	1.3	46
4337	Syntheses, photophysical properties, and reactivities of novel bichromophoric Pd complexes composed of Ru(II)-polypyridyl and naphthyl moieties. <i>Dalton Transactions</i> , 2013, 42, 6989.	1.6	26
4338	A transparent Ti <sup>4+</sup> doped hematite photoanode protectively grown by a facile hydrothermal method. <i>CrystEngComm</i> , 2013, 15, 2386.	1.3	42
4339	Effect of Nanograss and Annealing Temperature on TiO <sub>2</sub> Nanotubes Based Dye Sensitized Solar Cells. <i>Materials Science Forum</i> , 0, 771, 103-113.	0.3	8
4340	A semiconductor/mixed ion and electron conductor heterojunction for elevated-temperature water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15459.	1.3	18
4341	Direct observation of charge separation on Au localized surface plasmons. <i>Energy and Environmental Science</i> , 2013, 6, 3584.	15.6	70
4342	In situ grown vertically oriented CuInS <sub>2</sub> nanosheets and their high catalytic activity as counter electrodes in dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 2028.	2.2	59
4343	High energy electron beam irradiated TiO <sub>2</sub> photoanodes for improved water splitting. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13567.	5.2	29
4344	Influence of hydroxyl groups on the adsorption of HCHO on TiO <sub>2</sub> -B(100) surface by first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3866.	1.3	7
4345	Computational study of porphyrin-based dyes with better performance. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15434.	1.3	14
4346	Gas sensing properties of self-assembled ZnO nanotube bundles. <i>RSC Advances</i> , 2013, 3, 16619.	1.7	27
4347	Metal-phenanthroline fused Ti <sub>17</sub> clusters, a single molecular source for sensitized photoconductive films. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9862.	5.2	71
4348	Vertically aligned anatase TiO <sub>2</sub> nanotubes on transparent conducting substrates using polycarbonate membranes. <i>RSC Advances</i> , 2013, 3, 13681.	1.7	8
4349	Hydrogen-treated commercial WO <sub>3</sub> as an efficient electrocatalyst for triiodide reduction in dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 5945.	2.2	83
4350	Si quantum dot-assisted synthesis of mesoporous black TiO <sub>2</sub> nanocrystals with high photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4162.	5.2	8
4351	Mechanism of protonation induced changes in Raman spectra of a trisheteroleptic ruthenium complex revealed by DFT calculations. <i>RSC Advances</i> , 2013, 3, 5597.	1.7	7
4352	Synthesis and photocatalytic hydrogen production of a novel photocatalyst LaCO <sub>3</sub> OH. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6629.	5.2	61

#	ARTICLE	IF	CITATIONS
4353	Spectroscopy and Dynamics of Phosphonate-Derivatized Ruthenium Complexes on TiO <sub>2</sub> . Journal of Physical Chemistry C, 2013, 117, 812-824.	1.5	43
4354	Construction of Hierarchically Structured TiO <sub>2</sub> Nanotube Arrays for Efficient Dye-Sensitized Solar Cells. ECS Transactions, 2013, 58, 11-19.	0.3	0
4355	Dual reaction channels for photocatalytic oxidation of phenylmethanol on anatase. Physical Chemistry Chemical Physics, 2013, 15, 1082-1087.	1.3	11
4356	Synthesis, spectroscopic, electrochemical and computational studies of rhenium(i) dicarbonyl complexes based on meridionally-coordinated 2,2',6',6'-terpyridine. Dalton Transactions, 2013, 42, 12440.	1.6	28
4357	Detection of non-absorbing charge dynamics via refractive index change in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 5975.	1.3	20
4358	Synthesis of mesoporous single crystal rutile TiO <sub>2</sub> with improved photocatalytic and photoelectrochemical activities. Chemical Communications, 2013, 49, 11770.	2.2	55
4359	Unusual particle-size-induced promoter-to-poison transition of ZrN in counter electrodes for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 14350.	5.2	70
4360	Confined crystallization of anatase TiO <sub>2</sub> nanotubes and their implications on transport properties. Journal of Materials Chemistry A, 2013, 1, 14080.	5.2	26
4361	Hydrothermal fabrication of hierarchically macroporous Zn <sub>2</sub> SnO <sub>4</sub> for highly efficient dye-sensitized solar cells. Nanoscale, 2013, 5, 5940.	2.8	65
4362	Carbon nanotube solar cells. , 2013, , 241-269.		13
4363	Enhanced photoelectrocatalytic performance of SnO <sub>2</sub> /TiO <sub>2</sub> rutile composite films. Journal of Materials Chemistry A, 2013, 1, 10727.	5.2	108
4364	Coupled analysis of steady-state and dynamic characteristics of dye-sensitized solar cells for determination of conduction band movement and recombination parameters. Physical Chemistry Chemical Physics, 2013, 15, 299-306.	1.3	14
4365	Self-powered ultraviolet photodetector based on a single ZnO tetrapod/PEDOT:PSS heterostructure. Semiconductor Science and Technology, 2013, 28, 105023.	1.0	25
4366	Study of band-structure, optical properties and native defects in A <sub>2</sub> B <sub>2</sub> O <sub>7</sub> (A = Cu or Tl) ETQq1 1 0.784314 rgBT /Oyerlock 10 065003.	1.0	49
4367	Synthesis, crystal structure, magnetic, DSS cell, lifetime measurement, electrochemical, catecholase activity, and antimicrobial studies of mono and hetero binuclear cryptates. Journal of the Iranian Chemical Society, 2013, 10, 63-76.	1.2	3
4368	Comparison of ZnO and TiO <sub>2</sub> nanowires for photoanode of dye-sensitized solar cells. Journal of Alloys and Compounds, 2013, 546, 307-313.	2.8	44
4369	Synthesis of square-like anatase TiO <sub>2</sub> nanocrystals based on TiOF <sub>2</sub> quantum dots. Journal of Alloys and Compounds, 2013, 550, 475-478.	2.8	8
4370	Recent advances in the photocatalytic conversion of carbon dioxide to fuels with water and/or hydrogen using solar energy and beyond. Coordination Chemistry Reviews, 2013, 257, 171-186.	9.5	582

#	ARTICLE	IF	CITATIONS
4371	A graphene-multi-walled carbon nanotube hybrid supported on fluorinated tin oxide as a counter electrode of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2013, 222, 518-525.	4.0	71
4372	Single-crystalline rutile TiO <sub>2</sub> nanowires for improved lithium ion intercalation properties. <i>Journal of Power Sources</i> , 2013, 222, 225-229.	4.0	49
4373	Fabrication of Pd/TiO <sub>2</sub> -multiwall carbon nanotubes catalyst and investigation of its electrocatalytic activity for formic acid oxidation. <i>Journal of Power Sources</i> , 2013, 222, 510-517.	4.0	21
4374	Enhanced conversion efficiency of dye-sensitized solar cells using Sm <sub>2</sub> O <sub>3</sub> -modified TiO <sub>2</sub> nanotubes. <i>Journal of Power Sources</i> , 2013, 223, 254-258.	4.0	30
4375	How to design more efficient organic dyes for dye-sensitized solar cells? Adding more sp <sup>2</sup> -hybridized nitrogen in the triphenylamine donor. <i>Journal of Power Sources</i> , 2013, 223, 86-93.	4.0	91
4376	Improved performance of dye-sensitized solar cells by trace amount Cr-doped TiO <sub>2</sub> photoelectrodes. <i>Journal of Power Sources</i> , 2013, 224, 168-173.	4.0	72
4377	Facile fabrication of dye-sensitized solar cells utilizing carbon nanotubes grown over 2D hexagonal bimetallic ordered mesoporous materials. <i>Journal of Power Sources</i> , 2013, 225, 364-373.	4.0	13
4378	A novel TiO <sub>2</sub> nanowires/nanoparticles composite photoanode with SrO shell coating for high performance dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2013, 226, 8-15.	4.0	48
4379	Ligand-Based Charge-Transfer Luminescence in Ionic Cyclometalated Iridium(III) Complexes Bearing a Pyrene-Functionalized Bipyridine Ligand: A Joint Theoretical and Experimental Study. <i>Inorganic Chemistry</i> , 2013, 52, 885-897.	1.9	56
4380	Bandgap-Graded CdS <sub>x</sub> Se <sub>1-x</sub> Nanowires for High-Performance Field-Effect Transistors and Solar Cells. <i>Advanced Materials</i> , 2013, 25, 1109-1113.	11.1	75
4381	Enhancing in the performance of dye-sensitized solar cells by the incorporation of functionalized multi-walled carbon nanotubes into TiO <sub>2</sub> films: The role of MWCNT addition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 251, 78-84.	2.0	36
4382	Adsorption characteristics of gardenia yellow as natural photosensitizer for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2013, 96, 595-601.	2.0	60
4383	Novel pyrene-based donor-acceptor organic dyes for solar cell application. <i>Organic Electronics</i> , 2013, 14, 445-450.	1.4	41
4384	Electronic Origin of the Surface Reactivity of Transition-Metal-Doped TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , 2013, 117, 460-465.	1.5	87
4385	Photoelectrochemical cells for solar hydrogen production: current state of promising photoelectrodes, methods to improve their properties, and outlook. <i>Energy and Environmental Science</i> , 2013, 6, 347-370.	15.6	969
4386	Measurements and evaluation of dye-sensitized solar cell performance. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013, 14, 1-12.	5.6	36
4387	Nanoclay Gelation Approach toward Improved Dye-Sensitized Solar Cell Efficiencies: An Investigation of Charge Transport and Shift in the TiO <sub>2</sub> Conduction Band. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 444-450.	4.0	49
4388	A DFT study of the hematite surface state in the presence of H <sub>2</sub> , H <sub>2</sub> O and O <sub>2</sub> . <i>Surface Science</i> , 2013, 610, 7-15.	0.8	44

#	ARTICLE	IF	CITATIONS
4389	Improved performance of dye-sensitized solar cells with TiO <sub>2</sub> nanocrystal/nanowires double-layered films as photoelectrode. <i>RSC Advances</i> , 2013, 3, 3304.	1.7	4
4390	Nanostructured metal chalcogenides: synthesis, modification, and applications in energy conversion and storage devices. <i>Chemical Society Reviews</i> , 2013, 42, 2986.	18.7	1,393
4391	Formation energy and photoelectrochemical properties of BiV <sub>4</sub> O <sub>13</sub> after doping at Bi <sup>3+</sup> or V <sup>5+</sup> sites with higher valence metal ions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1006-1013.	1.3	138
4392	Modelling Janus Nanoparticles. <i>Nanostructure Science and Technology</i> , 2013, , 243-273.	0.1	2
4393	Galvanic Exchange on Reduced Graphene Oxide: Designing a Multifunctional Two-Dimensional Catalyst Assembly. <i>Journal of Physical Chemistry C</i> , 2013, 117, 571-577.	1.5	33
4394	Theoretical Study of Sensitizer Candidates for Dye-Sensitized Solar Cells: Peripheral Substituted Zinc Porphyrin-Phthalocyanine Complexes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 430-438.	1.1	50
4395	Rutile microtubes assembly from nanostructures obtained by ultra-short laser ablation of titanium in liquid. <i>Applied Surface Science</i> , 2013, 268, 571-578.	3.1	26
4396	High performance platinum-free counter electrode of molybdenum sulfide-carbon used in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1495-1501.	5.2	185
4397	A sulfur-assisted strategy to decorate MWCNTs with highly dispersed Pt nanoparticles for counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1982-1986.	5.2	36
4398	ZnO nanowire/nanoparticles composite films for the photoanodes of quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 88, 35-43.	2.6	40
4399	Kinetics and mechanism of glycerol photo-oxidation and photo-reforming reactions in aqueous TiO <sub>2</sub> and Pt/TiO <sub>2</sub> suspensions. <i>Catalysis Today</i> , 2013, 209, 91-98.	2.2	119
4400	Electrocatalytic carbonaceous materials for counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3202-3215.	5.2	59
4401	Superior photoelectrodes for solid-state dye-sensitized solar cells using amphiphilic TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2013, 1, 1228-1238.	5.2	30
4402	Improved conversion efficiency of dye-sensitized solar cells by using novel complex nanostructured TiO <sub>2</sub> electrodes. <i>Science China Technological Sciences</i> , 2013, 56, 115-119.	2.0	4
4403	A PEDOT-reinforced exfoliated graphite composite as a Pt- and TCO-free flexible counter electrode for polymer electrolyte dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1048-1054.	5.2	59
4404	Theoretical Approaches to Excited-State-Related Phenomena in Oxide Surfaces. <i>Chemical Reviews</i> , 2013, 113, 4456-4495.	23.0	80
4405	Resonant light trapping in ultrathin films for water splitting. <i>Nature Materials</i> , 2013, 12, 158-164.	13.3	309
4406	A facile low temperature synthesis of TiO <sub>2</sub> nanorods for high efficiency dye sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 111-122.	1.1	49

#	ARTICLE	IF	CITATIONS
4407	A novel route for synthesis, characterization of molybdenum diselenide thin films and their photovoltaic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 438-442.	1.1	10
4408	Cu(ii)/Cu(0) electrocatalyzed CO <sub>2</sub> and H <sub>2</sub> O splitting. <i>Energy and Environmental Science</i> , 2013, 6, 813.	15.6	76
4409	Iron complex redox system as a mediator for a dye-sensitized solar cell. <i>Russian Journal of Inorganic Chemistry</i> , 2013, 58, 62-66.	0.3	2
4410	{001} facets dominated anatase TiO <sub>2</sub> : Morphology, formation/etching mechanisms and performance. <i>Science China Chemistry</i> , 2013, 56, 402-417.	4.2	24
4411	Resonant optical absorption and defect control in Ta <sub>3</sub> N <sub>5</sub> photoanodes. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	58
4413	Highly Efficient p-Type Dye-Sensitized Solar Cells based on Tris(1,2-diaminoethane)Cobalt(II)/(III) Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 602-605.	7.2	177
4414	A Facile One-Pot Synthesis of Layered Protonated Titanate Nanosheets Loaded with Silver Nanoparticles with Enhanced Visible-Light Photocatalytic Performance. <i>Chemistry - an Asian Journal</i> , 2013, 8, 204-211.	1.7	22
4415	Nanostructured materials for energy applications. <i>Microelectronic Engineering</i> , 2013, 108, 84-85.	1.1	8
4416	Micro-Raman mapping on an anatase TiO <sub>2</sub> single crystal with a large percentage of reactive (001) facets. <i>Vibrational Spectroscopy</i> , 2013, 68, 279-284.	1.2	17
4417	Influence of spatial arrangements of ĩ€-spacer and acceptor of phenothiazine based dyes on the performance of dye-sensitized solar cells. <i>Organic Electronics</i> , 2013, 14, 2662-2672.	1.4	33
4418	Novel nanostructure zinc zirconate, zinc oxide or zirconium oxide pastes coated on fluorine doped tin oxide thin film as photoelectrochemical working electrodes for dye-sensitized solar cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 197-202.	2.0	36
4419	Glutathione-assisted hydrothermal synthesis of CdS-decorated TiO <sub>2</sub> nanorod arrays for quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 113, 661-667.	2.6	27
4420	Highly dispersed mesoporous TiO <sub>2</sub> spheres via acid treatment and its application for dye-sensitized solar cells. <i>Powder Technology</i> , 2013, 243, 130-138.	2.1	17
4421	Construction of N, S codoped TiO <sub>2</sub> NCs decorated TiO <sub>2</sub> nano-tube array photoelectrode and its enhanced visible light photocatalytic mechanism. <i>Electrochimica Acta</i> , 2013, 103, 134-142.	2.6	72
4422	Triphenylamine-based organic dyes with julolidine as the secondary electron donor for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2013, 243, 131-137.	4.0	48
4423	Enhanced performance of dye-sensitized solar cells via the incorporation of an internal layer consisting of three-dimensional shuttlelike up-converter and ZnO nanocrystalline aggregates. <i>Journal of Power Sources</i> , 2013, 243, 588-593.	4.0	16
4424	Retarded hydrolysis-condensing reactivity of tetrabutyl titanate by acetylacetone and the application in dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2013, 48, 4351-4356.	2.7	8
4425	Preparation of composite light-scattering layer for dye sensitized solar cells. <i>Thin Solid Films</i> , 2013, 529, 15-18.	0.8	16



#	ARTICLE	IF	CITATIONS
4426	Effect of gas ambient and varying RF sputtering power for bandgap narrowing of mixed (ZnO:GaN) thin films for solar driven hydrogen production. <i>Journal of Power Sources</i> , 2013, 232, 74-78.	4.0	13
4427	The influence of surface treatment on dye-sensitized solar cells based on TiO <sub>2</sub> nanofibers. <i>Materials Letters</i> , 2013, 97, 74-77.	1.3	5
4428	Benzimidazole derivative vs. different phases of TiO <sub>2</sub> -physico-chemical approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 114, 303-308.	2.0	9
4429	Design of solar cell materials via soft X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 2-11.	0.8	15
4430	Enhancement of the efficiency of dye-sensitized solar cells with highly ordered Pt-decorated nanostructured silicon nanowires based counter electrodes. <i>Electrochimica Acta</i> , 2013, 96, 61-65.	2.6	18
4431	Photoanode characteristics of multi-layer composite BiVO <sub>4</sub> thin film in a concentrated carbonate electrolyte solution for water splitting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 258, 51-60.	2.0	38
4432	Combustion chemistry of Ti(OC <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> in premixed flat burner-stabilized H <sub>2</sub> /O <sub>2</sub> /Ar flame at 1 atm. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1143-1149.	2.4	30
4433	Fluorescence enhancing and quenching of TiO <sub>2</sub> by benzimidazole. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 207-211.	4.0	27
4434	Promotion of charge transport in low-temperature fabricated TiO <sub>2</sub> electrodes by curing-induced compression stress. <i>Electrochimica Acta</i> , 2013, 100, 85-92.	2.6	9
4435	Comparison between positive and negative constant current stress on dye-sensitized solar cells. <i>Microelectronics Reliability</i> , 2013, 53, 1804-1808.	0.9	4
4436	Photocatalytic degradation of Eriochrome Black T dye using well-crystalline anatase TiO <sub>2</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , 2013, 581, 392-397.	2.8	123
4437	Electrochemical synthesis of photosensitive nano-nest like CdSe <sub>0.6</sub> Te <sub>0.4</sub> thin films. <i>Applied Surface Science</i> , 2013, 282, 561-565.	3.1	36
4439	Influence of orbital contributions to the valence band alignment of Bi <sub>2</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , 2013, 114, 114301.	1.1	53
4440	Starburst triarylamine based dyes bearing a 3,4-ethylenedioxythiophene linker for efficient dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11909.	1.3	26
4441	Improvement of Thiolate/Disulfide Mediated Dye-Sensitized Solar Cells through Supramolecular Lithium Cation Assembling of Crown Ether. <i>Scientific Reports</i> , 2013, 3, 2413.	1.6	8
4442	Attempt to Improve the Performance of Pyrrole-Containing Dyes in Dye Sensitized Solar Cells by Adjusting Isolation Groups. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12469-12477.	4.0	45
4443	Effects of the number of chromophores and the bulkiness of a nonconjugated spacer in a dye molecule on the performance of dye-sensitized solar cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 420, 22-29.	2.3	13
4444	Photoelectrochemical behavior of mixed ZnO and GaN (ZnO:GaN) thin films prepared by sputtering technique. <i>Applied Surface Science</i> , 2013, 270, 718-721.	3.1	4

#	ARTICLE	IF	CITATIONS
4445	Recent advances in multistep solution nanosynthesis of nanostructured three-dimensional complexes of semiconductive materials. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 273-285.	1.8	11
4446	Improving photovoltaic performance of dye-sensitized solar cell by downshift luminescence and p-doping effect of Gd <sub>2</sub> O <sub>3</sub> :Sm <sup>3+</sup> . <i>Journal of Luminescence</i> , 2013, 134, 59-62.	1.5	36
4447	Novel ITO/arc-TiO <sub>2</sub> antireflective conductive substrate for transmittance enhanced properties in dye-sensitized solar cells. <i>Microelectronic Engineering</i> , 2013, 108, 99-105.	1.1	15
4448	Preparation of CdS NCs decorated TiO <sub>2</sub> nano-tubes arrays photoelectrode and its enhanced photoelectrocatalytic performance and mechanism. <i>Electrochimica Acta</i> , 2013, 105, 535-541.	2.6	42
4449	Synthesis and visible-light-driven photocatalytic activity of one-dimensional CdS/Fe <sub>2</sub> O <sub>3</sub> . <i>Superlattices and Microstructures</i> , 2013, 54, 146-154.	1.4	14
4450	Nano-structured calcium silicate hydrate and doping of soggy sand electrolytes. <i>Renewable Energy</i> , 2013, 59, 167-171.	4.3	2
4451	The structural, optical, magnetic and photocatalytic properties of transition metal ions doped TiO <sub>2</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , 2013, 581, 71-78.	2.8	89
4452	A scalable process for the synthesis of (E)-pterostilbene involving aqueous Wittig olefination chemistry. <i>Tetrahedron Letters</i> , 2013, 54, 6303-6306.	0.7	17
4453	Triplex-functional corolla-like TiO <sub>2</sub> nanorod aggregates as light-scattering layer for dye-sensitized solar cells. <i>Materials Letters</i> , 2013, 98, 30-33.	1.3	13
4454	Theoretical investigations of metal-free dyes for solar cells: Effects of electron donor and acceptor groups on sensitizers. <i>Journal of Power Sources</i> , 2013, 242, 464-471.	4.0	20
4455	Comparative study of photocatalytic performance on different TiO <sub>2</sub> nano-tubes arrays. <i>Journal of Alloys and Compounds</i> , 2013, 566, 120-124.	2.8	32
4456	Formation of spherical TiO <sub>2</sub> nanorod aggregates with multiple functions for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2013, 555, 68-73.	2.8	13
4457	Soft solution fluorine-free synthesis of anatase nanoparticles with tailored morphology. <i>Ceramics International</i> , 2013, 39, 1195-1202.	2.3	21
4458	Effect of Enhanced Pyrolysis Platinized Processes on the Performance of Counter Electrodes. <i>Rare Metal Materials and Engineering</i> , 2013, 42, 1130-1133.	0.8	0
4459	Reactive oxygen species at the oxide/water interface: Formation mechanisms and implications for prebiotic chemistry and the origin of life. <i>Earth and Planetary Science Letters</i> , 2013, 363, 156-167.	1.8	50
4460	The use of sputter deposited TiN thin film as a surface conducting layer on the counter electrode of flexible plastic dye-sensitized solar cells. <i>Surface and Coatings Technology</i> , 2013, 231, 140-143.	2.2	10
4461	Effect of iodine concentration on the photovoltaic properties of dye sensitized solar cells for various I <sub>2</sub> /LiI ratios. <i>Electrochimica Acta</i> , 2013, 87, 92-96.	2.6	32
4462	Photovoltaic performance of ruthenium complex dye associated with number and position of carboxyl groups on bipyridine ligands. <i>Materials Chemistry and Physics</i> , 2013, 142, 420-427.	2.0	5

#	ARTICLE	IF	CITATIONS
4463	Effect of amorphous fluorinated coatings on photocatalytic properties of anodized titanium surfaces. <i>Thin Solid Films</i> , 2013, 545, 210-216.	0.8	12
4464	Correlation between Hydrophilicity and Surface Aggregation in Anodized TiO <sub>2</sub> Nanotube Arrays. <i>Physics Procedia</i> , 2013, 48, 220-227.	1.2	9
4465	First-principles study of Sc-doping effect on the stability, electronic structure and photocatalytic properties of Sr <sub>2</sub> TiO <sub>4</sub> . <i>Thin Solid Films</i> , 2013, 542, 276-280.	0.8	9
4466	Quantum efficiency modeling and system scaling-up analysis of water splitting with Cd <sub>1-x</sub> Zn <sub>x</sub> S solid-solution photocatalyst. <i>Chemical Engineering Science</i> , 2013, 97, 235-255.	1.9	31
4467	Effects of preparing conditions on the nanostructures electrodeposited from the Zn(NO <sub>3</sub> ) <sub>2</sub> electrolyte containing KCl. <i>Thin Solid Films</i> , 2013, 534, 205-213.	0.8	16
4468	Fabrication of noble-metal-free Cd <sub>0.5</sub> Zn <sub>0.5</sub> /NiS hybrid photocatalyst for efficient solar hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11268-11277.	3.8	73
4469	Photoelectrochemical properties of the CT1 dye: A DFT study. <i>Journal of Molecular Structure</i> , 2013, 1046, 116-123.	1.8	19
4470	Enhancing the performance of free-standing TiO <sub>2</sub> nanotube arrays based dye-sensitized solar cells via ultraprecise control of the nanotube wall thickness. <i>Journal of Power Sources</i> , 2013, 240, 503-509.	4.0	28
4471	Surface decorated Cd <sub>x</sub> Zn <sub>1-x</sub> S cluster with CdS quantum dot as sensitizer for highly photocatalytic efficiency. <i>Applied Surface Science</i> , 2013, 285, 912-917.	3.1	12
4472	Thermal stability and phase transformation of TiO <sub>2</sub> nanowires at various temperatures. <i>Microelectronic Engineering</i> , 2013, 108, 134-137.	1.1	14
4473	Synthesis of LaVO <sub>4</sub> : Dy <sup>3+</sup> luminescent nanostructure and optimization of its performance as down-converter in dye-sensitized solar cells. <i>Journal of Luminescence</i> , 2013, 135, 66-73.	1.5	52
4474	Determination of refractive index for absorbing spheres. <i>Optik</i> , 2013, 124, 5254-5258.	1.4	4
4475	Formation of crystalline TiO <sub>2</sub> by anodic oxidation of titanium. <i>Progress in Natural Science: Materials International</i> , 2013, 23, 294-301.	1.8	57
4476	Quantum dot-sensitized solar cells employing Pt/C <sub>60</sub> counter electrode provide an efficiency exceeding 2%. <i>Science China Chemistry</i> , 2013, 56, 93-100.	4.2	5
4477	Application of nanotechnologies in the energy sector: A brief and short review. <i>Frontiers in Energy</i> , 2013, 7, 6-18.	1.2	25
4478	Enhancement of Dye-Sensitized Photocurrents by Gold Nanoparticles: Effects of Plasmon Coupling. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5901-5907.	1.5	81
4479	Silicon-Naphthalo/Phthalocyanine-Hybrid Sensitizer for Efficient Red Response in Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2013, 15, 784-787.	2.4	67
4480	Molecular Design of Porphyrins for Dye-Sensitized Solar Cells: A DFT/TDDFT Study. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 524-530.	2.1	123

#	ARTICLE	IF	CITATIONS
4481	Hierarchical TiO <sub>2</sub> microspheres comprised of anatase nanospindles for improved electron transport in dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 324-330.	2.8	68
4482	Anatase TiO <sub>2</sub> microspheres with reactive {001} facets for improved photocatalytic activity. <i>RSC Advances</i> , 2013, 3, 1222-1226.	1.7	32
4483	From natural to artificial photosynthesis. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120984.	1.5	293
4484	Synthesis of Mesoporous SiO <sub>2</sub> @TiO <sub>2</sub> Core/Shell Nanospheres with Enhanced Photocatalytic Properties. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 306-310.	1.2	39
4485	Random nanowires of nickel doped TiO <sub>2</sub> with high surface area and electron mobility for high efficiency dye-sensitized solar cells. <i>Dalton Transactions</i> , 2013, 42, 1024-1032.	1.6	45
4486	An autonomous photosynthetic device in which all charge carriers derive from surface plasmons. <i>Nature Nanotechnology</i> , 2013, 8, 247-251.	15.6	1,050
4487	Synthesis of metal-free organic dyes containing tris(dodecyloxy)phenyl and dithienothiophenyl units and a study of their mesomorphic and photovoltaic properties. <i>Tetrahedron</i> , 2013, 69, 2124-2130.	1.0	6
4488	Monolithic quasi-solid-state dye-sensitized solar cells based on iodine-free polymer gel electrolyte. <i>Journal of Power Sources</i> , 2013, 235, 243-250.	4.0	28
4489	Cyclic Thiourea/Urea Functionalized Triphenylamine-Based Dyes for High-Performance Dye-Sensitized Solar Cells. <i>Organic Letters</i> , 2013, 15, 1456-1459.	2.4	55
4490	Transient mid-IR study of electron dynamics in TiO <sub>2</sub> conduction band. <i>Analyst</i> , 2013, 138, 1966.	1.7	19
4491	Theoretical design of core modified (oxa and thia) porphyrin based organic dyes with bridging thiophene linkers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4358.	5.2	28
4492	Recent Progress in the Synthesis of Spherical Titania Nanostructures and Their Applications. <i>Advanced Functional Materials</i> , 2013, 23, 1356-1374.	7.8	195
4493	Photophysical properties of azaboradibenzo[6]helicene derivatives. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2354.	2.7	27
4494	The fabrication and characterization of TiO <sub>2</sub> nanospheres with high visible light photocatalytic activity by direct carbonization of block copolymer templates. <i>New Journal of Chemistry</i> , 2013, 37, 1115.	1.4	6
4495	Visible-Light-Active Elemental Photocatalysts. <i>ChemPhysChem</i> , 2013, 14, 885-892.	1.0	93
4496	Ordered Mesoporous Cobalt Oxide as Highly Efficient Oxygen Evolution Catalyst. <i>Journal of the American Chemical Society</i> , 2013, 135, 4516-4521.	6.6	378
4497	Photocatalytic WO <sub>3</sub> and TiO <sub>2</sub> Films on Brass. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 26-32.	1.1	7
4498	Ruthenium complex dye with designed ligand capable of chelating triiodide anion for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3463.	5.2	16

#	ARTICLE	IF	CITATIONS
4499	Visible Light Driven Water Splitting in a Molecular Device with Unprecedentedly High Photocurrent Density. <i>Journal of the American Chemical Society</i> , 2013, 135, 4219-4222.	6.6	330
4500	Enhancement of Photovoltaic Performance of Dye-Sensitized Solar Cells by Modifying Tin Oxide Nanorods with Titanium Oxide Layer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4345-4350.	1.5	54
4501	Photoelectrochemical and Photovoltaic Properties of $\text{Cu}_2\text{O}$ Homo Junction Films and Their Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4619-4624.	1.5	138
4502	Dry plasma reduction to synthesize supported platinum nanoparticles for flexible dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4436.	5.2	106
4503	Photoelectrochemical properties of $\text{LaTiO}_2\text{N}$ electrodes prepared by particle transfer for sunlight-driven water splitting. <i>Chemical Science</i> , 2013, 4, 1120.	3.7	258
4504	Heterostructured $\text{Ag}_3\text{PO}_4/\text{AgBr}/\text{Ag}$ plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible light. <i>Nanoscale</i> , 2013, 5, 3315.	2.8	163
4505	Photocatalytic and radiocatalytic nanomaterials for the degradation of organic species. <i>Radiation Physics and Chemistry</i> , 2013, 84, 51-58.	1.4	16
4506	Optical Properties of Nanocomposites. , 2013, , 485-529.		0
4507	Template-free synthesis of $\text{Ta}_3\text{N}_5$ nanorod arrays for efficient photoelectrochemical water splitting. <i>Chemical Communications</i> , 2013, 49, 3019.	2.2	115
4508	Quasi-solid-state dye-sensitized solar cell from polyaniline integrated poly(hexamethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5326.	5.2	66
4509	Recent progress in biomedical applications of titanium dioxide. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4844.	1.3	417
4510	Structurally and Electronically Designed $\text{TiO}_2/\text{N}$ Nanofibers for Lithium Rechargeable Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 691-696.	4.0	63
4511	Visible Light Photocatalysis with $\text{c-WO}_3/\text{WO}_3-\text{H}_2\text{O}$ Nanoheterostructures In Situ Formed in Mesoporous Polycarbosilane-Siloxane Polymer. <i>Journal of the American Chemical Society</i> , 2013, 135, 4467-4475.	6.6	150
4512	Quantum dot nanoscale heterostructures for solar energy conversion. <i>Chemical Society Reviews</i> , 2013, 42, 2963-2985.	18.7	204
4513	Synthesis of unsymmetrical carboxyphthalocyanines by palladium-catalyzed hydroxycarbonylation of iodo-substituted precursors. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2237.	1.5	19
4514	Molecular-Level Insights into Photocatalysis from Scanning Probe Microscopy Studies on $\text{TiO}_2(110)$ . <i>Chemical Reviews</i> , 2013, 113, 4428-4455.	23.0	224
4515	Nanohybridization of Low-Dimensional Nanomaterials: Synthesis, Classification, and Application. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2013, 38, 1-56.	6.8	20
4516	$\text{SnO}_2/\text{CdS}$ nanowire-quantum dots heterostructures: tailoring optical properties of $\text{SnO}_2$ for enhanced photodetection and photocatalysis. <i>Nanoscale</i> , 2013, 5, 3022.	2.8	69

#	ARTICLE	IF	CITATIONS
4517	A Noble-Metal-Free Hydrogen Evolution Catalyst Grafted to Visible Light-Absorbing Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 568-572.	2.1	81
4518	Formation of size-tunable dandelion-like hierarchical rutile titania nanospheres for dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 559-565.	1.7	22
4519	Preparation and Utilization of Polystyrene Nanocomposites Based on TiO <sub>2</sub> Nanowires. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 228-235.	1.9	22
4520	Enhanced performance of dye-sensitized solar cells using gold nanoparticles modified fluorine tin oxide electrodes. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 024005.	1.3	31
4521	Aqueous electrolyte based dye-sensitized solar cells using organic sensitizers. <i>New Journal of Chemistry</i> , 2013, 37, 329-336.	1.4	19
4522	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. <i>Energy and Environmental Science</i> , 2013, 6, 1362.	15.6	355
4523	Hole-transport functionalized copper(i) dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4500.	1.3	60
4524	Mesoporous TiO <sub>2</sub> single crystals delivering enhanced mobility and optoelectronic device performance. <i>Nature</i> , 2013, 495, 215-219.	13.7	751
4525	Formation of an electron hole doped film in the Fe <sub>2</sub> O <sub>3</sub> photoanode upon electrochemical oxidation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1443-1451.	1.3	40
4526	Synthesis, characterization and performance of Cd <sub>1-x</sub> In <sub>x</sub> Te compound for solar cell applications. <i>Journal of Alloys and Compounds</i> , 2013, 563, 39-43.	2.8	22
4527	Silane: A new linker for chromophores in dye-sensitized solar cells. <i>Polyhedron</i> , 2013, 52, 719-732.	1.0	28
4528	Quantum coherence controls the charge separation in a prototypical artificial light-harvesting system. <i>Nature Communications</i> , 2013, 4, 1602.	5.8	239
4529	Role of Adsorption Structures of Zn-Porphyrin on TiO <sub>2</sub> in Dye-Sensitized Solar Cells Studied by Sum Frequency Generation Vibrational Spectroscopy and Ultrafast Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6066-6080.	1.5	137
4530	The power of EPR techniques in revealing active sites in heterogeneous photocatalysis: The case of anion doped TiO <sub>2</sub> . <i>Catalysis Today</i> , 2013, 206, 2-11.	2.2	48
4531	Optical and microstructural properties of ZnO/TiO <sub>2</sub> nanolaminates prepared by atomic layer deposition. <i>Nanoscale Research Letters</i> , 2013, 8, 107.	3.1	32
4532	A counter electrode of multi-wall carbon nanotubes decorated with tungsten sulfide used in dye-sensitized solar cells. <i>Carbon</i> , 2013, 55, 1-9.	5.4	131
4533	Efficient ZnO-based counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6622.	5.2	90
4534	NiS <sub>2</sub> /Reduced Graphene Oxide Nanocomposites for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6561-6566.	1.5	198

#	ARTICLE	IF	CITATIONS
4535	Controlling the microstructure and properties of titania nanopowders for high efficiency dye sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 89, 469-478.	2.6	82
4536	Solution-Processed, Antimony-Doped Tin Oxide Colloid Films Enable High-Performance TiO <sub>2</sub> Photoanodes for Water Splitting. <i>Nano Letters</i> , 2013, 13, 1481-1488.	4.5	79
4537	Enhanced photoelectrochemical performance of composite photovoltaic cells of Li <sup>+</sup> @C60-sulphonated porphyrin supramolecular nanoclusters. <i>Chemical Communications</i> , 2013, 49, 4474.	2.2	45
4538	Enhanced photoelectrochemical performance of WO <sub>3</sub> /Ti photoanode due to in situ formation of a thin interfacial composite layer. <i>Applied Surface Science</i> , 2013, 270, 267-271.	3.1	15
4539	Organic/inorganic hybrid sensors: A review. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 467-481.	4.0	246
4540	Synthesis and characterization of $\beta$ -pyrrolic functionalized porphyrins as sensitizers for dye-sensitized solar cells. <i>Tetrahedron Letters</i> , 2013, 54, 2435-2439.	0.7	19
4541	Enhanced light scattering and photovoltaic performance for dye-sensitized solar cells by embedding submicron SiO <sub>2</sub> /TiO <sub>2</sub> core/shell particles in photoanode. <i>Ceramics International</i> , 2013, 39, 5407-5413.	2.3	43
4542	New Dinuclear Ruthenium Complexes: Structure and Oxidative Catalysis. <i>Inorganic Chemistry</i> , 2013, 52, 4335-4345.	1.9	24
4543	Inherent electronic trap states in TiO <sub>2</sub> nanocrystals: effect of saturation and sintering. <i>Energy and Environmental Science</i> , 2013, 6, 1221.	15.6	76
4544	BaSnO <sub>3</sub> Perovskite Nanoparticles for High Efficiency Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 449-454.	3.6	78
4545	Supramolecular Interactions of Chenodeoxycholic Acid Increase the Efficiency of Dye-Sensitized Solar Cells Based on a Cobalt Electrolyte. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3874-3887.	1.5	82
4546	Hydrothermally synthesized titania nanotubes as a promising electron transport medium in dye sensitized solar cells exhibiting a record efficiency of 7.6% for 1-D based devices. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5377.	5.2	43
4547	A novel carbon nanotube/polymer composite film for counter electrodes of dye-sensitized solar cells. <i>Polymer Chemistry</i> , 2013, 4, 1680.	1.9	25
4548	A p-type Cr-doped TiO <sub>2</sub> photo-electrode for photo-reduction. <i>Chemical Communications</i> , 2013, 49, 3440.	2.2	46
4549	Synthesis, Photo-, and Electrochemistry of Ruthenium Bis(bipyridine) Complexes Comprising a <i>N</i> -heterocyclic Carbene Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 5395-5402.	1.9	106
4550	Controlled Preparation of Uniform TiO <sub>2</sub> -Catalyzed Silver Nanoparticle Films for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6861-6871.	1.5	34
4551	Construction of hierarchical titanium dioxide nanomaterials by tuning the structure of polyvinylpyrrolidone-titanium butoxide complexes from 2- to 3-dimensional. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4993.	5.2	25
4552	Control of the size and shape of TiO <sub>2</sub> nanoparticles in restricted media. <i>Nanotechnology</i> , 2013, 24, 195601.	1.3	27

#	ARTICLE	IF	CITATIONS
4553	Surface modification of TiO <sub>2</sub> photocatalyst for environmental applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2013, 15, 1-20.	5.6	858
4554	High-efficient dye-sensitized solar cell based on highly conducting and thermally stable PEDOT:PSS/glass counter electrode. Organic Electronics, 2013, 14, 1769-1776.	1.4	31
4555	Facile synthesis of a bulky BTPA donor group suitable for cobalt electrolyte based dye sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 5535.	5.2	58
4556	Clean Energy. Interface Science and Technology, 2013, 19, 279-383.	1.6	12
4557	Synthesis and Characterization of 2Dâ€œDâ€œCâ€œAâ€œT Type Organic Dyes Bearing Bis(3,6-diâ€œtert-butylcarbazolâ€œ-9-ylphenyl)aniline as Donor Moiety for Dyeâ€œSensitized Solar Cells. European Journal of Organic Chemistry, 2013, 2013, 2608-2620.	1.2	40
4558	Defective TiO <sub>2</sub> with oxygen vacancies: synthesis, properties and photocatalytic applications. Nanoscale, 2013, 5, 3601.	2.8	1,727
4559	Hybrid materials based on lanthanide organic complexes: a review. Chemical Society Reviews, 2013, 42, 387-410.	18.7	674
4560	Electronic structure of acetonitrile adsorbed on the anatase TiO <sub>2</sub> (101) surface. Chemical Physics Letters, 2013, 556, 225-229.	1.2	11
4561	Graphene Quantum Dots as a Green Sensitizer to Functionalize ZnO Nanowire Arrays on Fâ€œDoped SnO <sub>2</sub> Glass for Enhanced Photoelectrochemical Water Splitting. Advanced Energy Materials, 2013, 3, 997-1003.	10.2	189
4562	Nanomaterials for Solar Energy Conversion: Dye-Sensitized Solar Cells Based on Ruthenium (II) Tris-Heteroleptic Compounds or Natural Dyes. , 2013, , 49-80.		4
4563	Improving the photovoltaic performance of cadmium sulfide quantum dots-sensitized solar cell by graphene/titania photoanode. Electrochimica Acta, 2013, 96, 110-116.	2.6	52
4564	Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. Energy and Environmental Science, 2013, 6, 1582.	15.6	146
4565	Carbon-Layer-Protected Cuprous Oxide Nanowire Arrays for Efficient Water Reduction. ACS Nano, 2013, 7, 1709-1717.	7.3	380
4566	Stabilizing inorganic photoelectrodes for efficient solar-to-chemical energy conversion. Energy and Environmental Science, 2013, 6, 1633.	15.6	32
4567	Rational screening low-cost counter electrodes for dye-sensitized solar cells. Nature Communications, 2013, 4, 1583.	5.8	365
4568	Organized long titanium dioxide nanofibers/nanotubes with controlled morphology using a solâ€œgel combined STEP technique. New Journal of Chemistry, 2013, 37, 571.	1.4	3
4569	Dye-Sensitization-Induced Visible-Light Reduction of Graphene Oxide for the Enhanced TiO <sub>2</sub> Photocatalytic Performance. ACS Applied Materials & Interfaces, 2013, 5, 2924-2929.	4.0	139
4570	Fine size-regulation of nanocrystalline anatase-TiO <sub>2</sub> via solâ€œgel synthesis and subsequent phase transformation by calcination. New Journal of Chemistry, 2013, 37, 1378.	1.4	9



#	ARTICLE	IF	CITATIONS
4571	Photoinduced polymerization: An innovative, powerful and environmentally friendly technique for the preparation of polymer electrolytes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013, 16, 1-21.	5.6	102
4572	Metal-organic frameworks as platforms for clean energy. <i>Energy and Environmental Science</i> , 2013, 6, 1656.	15.6	858
4573	Preparation, characterization and photocatalytic activity of CuBi <sub>2</sub> O <sub>4</sub> /NaTaO <sub>3</sub> coupled photocatalysts. <i>Journal of Alloys and Compounds</i> , 2013, 559, 116-122.	2.8	72
4574	Atomic layer deposition of TiO <sub>2</sub> interfacial layer for enhancing performance of quantum dot and dye co-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 024004.	1.3	14
4575	Enhancing the Performance of Solid-State Dye-Sensitized Solar Cells Using a Mesoporous Interfacial Titania Layer with a Bragg Stack. <i>Advanced Functional Materials</i> , 2013, 23, 2193-2200.	7.8	30
4576	Quantum dot-sensitized solar cells—perspective and recent developments: A review of Cd chalcogenide quantum dots as sensitizers. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 148-167.	8.2	328
4577	Quantum Confinement Controls Photocatalysis: A Free Energy Analysis for Photocatalytic Proton Reduction at CdSe Nanocrystals. <i>ACS Nano</i> , 2013, 7, 4316-4325.	7.3	234
4578	Effect of the chemical modifications of thiophene-based N3 dyes on the performance of dye-sensitized solar cells: A density functional theory study. <i>Computational and Theoretical Chemistry</i> , 2013, 1015, 8-14.	1.1	21
4579	Evaluating the Critical Thickness of TiO <sub>2</sub> Layer on Insulating Mesoporous Templates for Efficient Current Collection in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 2775-2781.	7.8	56
4580	Low-Temperature Crystalline Titanium Dioxide by Atomic Layer Deposition for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3487-3493.	4.0	70
4581	Chemical Regulation of Carbon Quantum Dots from Synthesis to Photocatalytic Activity. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1035-1041.	1.7	152
4582	Designed Synthesis of SiO <sub>2</sub> /TiO <sub>2</sub> Core/Shell Structure As Light Scattering Material for Highly Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4815-4820.	4.0	182
4583	Natural dye-sensitized solar cells with Titania nanoparticles. , 2013, , .		1
4584	Dye Sensitized Solar Cells for Economically Viable Photovoltaic Systems. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1682-1693.	2.1	146
4585	The design and realization of a large-area flexible nanofiber-based mat for pollutant degradation: an application in photocatalysis. <i>Nanoscale</i> , 2013, 5, 5036.	2.8	44
4586	Growth of carbon nanotubes over transition metal loaded on Co-SBA-15 and its application for high performance dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5070.	5.2	26
4587	Quantum chemical study of the donor-bridge-acceptor triphenylamine based sensitizers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 60-66.	2.0	73
4588	Facile Synthesis of High-Crystallinity Graphitic Carbon/Fe <sub>3</sub> C Nanocomposites As Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3663-3670.	4.0	127

#	ARTICLE	IF	CITATIONS
4589	High Aspect Ratio Dye-Sensitized Solar Cells Based on Robust, Fast-Growing TiO <sub>2</sub> Nanotubes. Chemistry - A European Journal, 2013, 19, 2966-2970.	1.7	38
4590	Porphyrim sensitizers with $\pi$ -extended pull units for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 8409.	1.3	38
4591	Rapid one-pot propargylamine synthesis by plasmon mediated catalysis with gold nanoparticles on ZnO under ambient conditions. Chemical Communications, 2013, 49, 1732.	2.2	79
4592	Efficient Light Harvesting with Micropatterned 3D Pyramidal Photoanodes in Dye-Sensitized Solar Cells. Advanced Materials, 2013, 25, 3111-3116.	11.1	65
4593	Surface-specific interaction by structure-match confined pure high-energy facet of unstable TiO <sub>2</sub> (B) polymorph. Scientific Reports, 2013, 3, 1411.	1.6	51
4594	Hierarchically porous hybrids of polyaniline nanoparticles anchored on reduced graphene oxide sheets as counter electrodes for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 2762.	5.2	64
4595	Application of TiO <sub>2</sub> -RuO <sub>2</sub> /Ti electrodes modified with transition metal oxides in photoelectrochemical degradation of H-acid - synergetic effect. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 257, 5-10.	2.0	8
4596	Three-dimensional CdS nanostructure for photoelectrochemical sensor. Sensors and Actuators B: Chemical, 2013, 182, 461-466.	4.0	27
4597	Recent advances in alternative cathode materials for iodine-free dye-sensitized solar cells. Energy and Environmental Science, 2013, 6, 2003.	15.6	135
4598	(Oxy)nitrides with d <sup>0</sup> -electronic configuration as photocatalysts and photoanodes that operate under a wide range of visible light for overall water splitting. Physical Chemistry Chemical Physics, 2013, 15, 10537.	1.3	97
4599	A self-powered UV photodetector based on TiO <sub>2</sub> nanorod arrays. Nanoscale Research Letters, 2013, 8, 188.	3.1	169
4600	Ordered Macroporous BiVO <sub>4</sub> Architectures with Controllable Dual Porosity for Efficient Solar Water Splitting. Angewandte Chemie - International Edition, 2013, 52, 8579-8583.	7.2	179
4601	Visible-Light-Responsive $\beta$ -Rhomboidal Boron Photocatalysts. Angewandte Chemie - International Edition, 2013, 52, 6242-6245.	7.2	99
4602	Preparation of novel hetero-nanostructures and high efficient visible light-active photocatalyst using incorporation of CNT as an electron-transfer channel into the support TiO <sub>2</sub> and PbS. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 748-757.	2.7	51
4603	One-step synthesis of nano-scaled tungsten oxides and carbides for dye-sensitized solar cells as counter electrode catalysts. Journal of Materials Chemistry A, 2013, 1, 7519.	5.2	63
4604	High efficiency photoelectrochemical water splitting and hydrogen generation using GaN nanowire photoelectrode. Nanotechnology, 2013, 24, 175401.	1.3	84
4605	Low-cost SnS <sub>x</sub> counter electrodes for dye-sensitized solar cells. Chemical Communications, 2013, 49, 5793.	2.2	115
4606	First-Principles Modeling of Mixed Halide Organometal Perovskites for Photovoltaic Applications. Journal of Physical Chemistry C, 2013, 117, 13902-13913.	1.5	861

#	ARTICLE	IF	CITATIONS
4607	Enhanced Light Harvesting with a Reflective Luminescent Down-Shifting Layer for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5397-5402.	4.0	44
4608	Anatase TiO <sub>2</sub> nanocrystals enclosed by well-defined crystal facets and their application in dye-sensitized solar cell. <i>CrystEngComm</i> , 2013, 15, 516-523.	1.3	35
4609	Wideband dye-sensitized solar cells employing a phosphine-coordinated ruthenium sensitizer. <i>Nature Photonics</i> , 2013, 7, 535-539.	15.6	200
4610	Characterization and Application of Ru <sup>2+</sup> Complex with Square-Planar Quadridentate Ligand Containing Arylamines for Dye-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 01AD07.	0.8	2
4611	High-Performance Förster Resonance Energy Transfer (FRET)-Based Dye-Sensitized Solar Cells: Rational Design of Quantum Dots for Wide Solar Spectrum Utilization. <i>Chemistry - A European Journal</i> , 2013, 19, 10280-10286.	1.7	36
4612	TiO <sub>2</sub> nanocrystals shell layer on highly conducting indium tin oxide nanowire for photovoltaic devices. <i>Nanoscale</i> , 2013, 5, 3520.	2.8	12
4613	Comparative study on electronic structures and optical properties of indoline and triphenylamine dye sensitizers for solar cells. <i>Journal of Molecular Modeling</i> , 2013, 19, 1553-1563.	0.8	27
4614	New panchromatic dyes comprising benzothiadiazole units within a donor-acceptor-conjugated spacer. <i>Synthesis and photophysical properties. Tetrahedron</i> , 2013, 69, 2167-2174.	1.0	12
4615	Design of visible-light photocatalysts by coupling of narrow bandgap semiconductors and TiO <sub>2</sub> : effect of their relative energy band positions on the photocatalytic efficiency. <i>Catalysis Science and Technology</i> , 2013, 3, 1822.	2.1	192
4616	Charge carrier trapping, recombination and transfer in hematite (α-Fe <sub>2</sub> O <sub>3</sub> ) water splitting photoanodes. <i>Chemical Science</i> , 2013, 4, 2724.	3.7	419
4617	Light intensity effects on photocatalytic water splitting with a titania catalyst. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6938-6947.	3.8	38
4618	Pulse electrodeposition of CoS on MWCNT/Ti as a high performance counter electrode for a Pt-free dye-sensitized solar cell. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1289-1295.	5.2	95
4619	Structural, electronic and optical properties of silver delafossite oxides: A first-principles study with hybrid functional. <i>Physica B: Condensed Matter</i> , 2013, 422, 20-27.	1.3	12
4620	Surface-Engineered Growth of AgIn <sub>5</sub> S <sub>8</sub> Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3530-3540.	4.0	15
4621	Effect of organic dyes on the performance of ZnO based dye-sensitized solar cells. <i>Applied Solar Energy (English Translation of Geliotekhnika)</i> , 2013, 49, 40-45.	0.2	22
4622	Hierarchical ZnO architectures consisting of nanorods and nanosheets prepared via a solution route for photovoltaic enhancement in dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 2910.	1.7	50
4623	Hydrothermally Grown Upright-Standing Nanoporous Nanosheets of Iodine-Doped ZnO (ZnO:I) Nanocrystallites for a High-Efficiency Dye-Sensitized Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3075-3084.	4.0	34
4624	Surfactant-assisted nanocrystal filling of TiO <sub>2</sub> nanotube arrays for dye-sensitized solar cells with improved performance. <i>Journal of Power Sources</i> , 2013, 236, 10-16.	4.0	27

#	ARTICLE	IF	CITATIONS
4625	A novel strategy for surface treatment on hematite photoanode for efficient water oxidation. <i>Chemical Science</i> , 2013, 4, 164-169.	3.7	148
4626	A Fully Integrated Nanosystem of Semiconductor Nanowires for Direct Solar Water Splitting. <i>Nano Letters</i> , 2013, 13, 2989-2992.	4.5	506
4627	Hierarchical porous TiO <sub>2</sub> thin films by soft and dual templating. <i>Thin Solid Films</i> , 2013, 539, 188-193.	0.8	15
4629	Screening of thiophene-substituted metalloporphyrins (Zn, Ni, Fe, Ti) for use in dye-sensitized solar cells DFT and TD-DFT study. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	7
4630	Earth-Abundant Cobalt Pyrite (CoS <sub>2</sub> ) Thin Film on Glass as a Robust, High-Performance Counter Electrode for Quantum Dot-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1843-1849.	2.1	197
4631	Porphyrin-Sensitized Solar Cells: Effect of Carboxyl Anchor Group Orientation on the Cell Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5314-5323.	4.0	136
4632	Surface Morphology-Dependent Photoelectrochemical Properties of One-Dimensional Si Nanostructure Arrays Prepared by Chemical Etching. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4769-4776.	4.0	34
4633	Hydroxamate Anchors for Improved Photoconversion in Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2013, 52, 6752-6764.	1.9	102
4634	On the properties of binary rutile MO <sub>2</sub> compounds, M = Ir, Ru, Sn, and Ti: A DFT study. <i>Journal of Chemical Physics</i> , 2013, 138, 194706.	1.2	50
4635	ReaxFF Reactive Force Field Study of the Dissociation of Water on Titania Surfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10558-10572.	1.5	109
4636	Electronic and optical properties of the triphenylamine-based organic dye sensitized TiO <sub>2</sub> semiconductor: insight from first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13844.	1.3	32
4637	Hole Scavenging by Organic Adsorbates on the TiO <sub>2</sub> Surface: A DFT Model Study. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1901-1906.	2.1	93
4638	A double layered TiO <sub>2</sub> photoanode consisting of hierarchical flowers and nanoparticles for high-efficiency dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 4362.	2.8	91
4639	Determining the Conductivities of the Two Charge Transport Phases in Solid-State Dye-Sensitized Solar Cells by Impedance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10980-10989.	1.5	8
4640	Effect of bulk doping and surface-trapped states on water splitting with hematite photoanodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5908.	5.2	39
4641	Template-Free Synthesis of Nanostructured Cd <sub>x</sub> Zn <sub>1-x</sub> S with Tunable Band Structure for H <sub>2</sub> Production and Organic Dye Degradation Using Solar Light. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6664-6672.	4.6	75
4642	A novel TCO- and Pt-free counter electrode for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1724-1730.	5.2	53
4643	Highly Efficient and Stable Cadmium Chalcogenide Quantum Dot/ZnO Nanowires for Photoelectrochemical Hydrogen Generation. <i>Chemistry of Materials</i> , 2013, 25, 184-189.	3.2	106

#	ARTICLE	IF	CITATIONS
4644	Dual-Functional Upconverter-Doped TiO <sub>2</sub> Hollow Shells for Light Scattering and Near-Infrared Sunlight Harvesting in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2013, 3, 704-707.	10.2	29
4645	X-ray absorption investigation of titanium oxynitride nanoparticles obtained from laser pyrolysis. <i>Chemical Physics</i> , 2013, 418, 47-56.	0.9	8
4646	Preparation and characterization of Pt/carbon counter electrodes for dye-sensitized solar cells. <i>Materials Letters</i> , 2013, 94, 15-18.	1.3	17
4647	Facile post-growth doping of nanostructured hematite photoanodes for enhanced photoelectrochemical water oxidation. <i>Energy and Environmental Science</i> , 2013, 6, 500-512.	15.6	220
4648	Infiltration of E7 Liquid Crystal in a Nanoparticle-Based Multilayer Photonic Crystal: Fabrication and Electro-optical Characterization. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 572, 31-39.	0.4	13
4649	Tailoring n-ZnO/p-Si Branched Nanowire Heterostructures for Selective Photoelectrochemical Water Oxidation or Reduction. <i>Nano Letters</i> , 2013, 13, 3017-3022.	4.5	141
4650	Combined experimental and DFT computational study of the organic photosensitizer based on dithiophene combined with bis-dimethylfluoreneaniline. <i>Synthetic Metals</i> , 2013, 166, 45-51.	2.1	2
4651	Dependence on the structure and surface polarity of ZnS photocatalytic activities of water splitting: first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9531.	1.3	23
4652	Platinum/graphene hybrid film as a counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 92, 64-70.	2.6	79
4653	Influences of the electron donor groups on the properties of thiophene-pyrrole-thiophene and tert-butyl based new ruthenium II bipyridyl sensitizers for DSSCs and DFT studies. <i>Synthetic Metals</i> , 2013, 174, 24-32.	2.1	13
4654	Effect of tertiary amines on the synthesis and photovoltaic properties of TiO <sub>2</sub> nanoparticles in dye sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 102, 274-281.	2.6	35
4655	A poly(3-hexylthiophene) modified CdS@TiO <sub>2</sub> shell-core nanorod array solar cell. <i>RSC Advances</i> , 2013, 3, 1541-1546.	1.7	14
4656	Self-modulated band gap in boron nitride nanoribbons and hydrogenated sheets. <i>Nanoscale</i> , 2013, 5, 6381.	2.8	53
4657	Cr doped titania microtubes and microrods synthesized by a vapor-solid method. <i>CrystEngComm</i> , 2013, 15, 5490.	1.3	14
4658	TiO <sub>2</sub> nanotubes, nanochannels and mesosponge: Self-organized formation and applications. <i>Nano Today</i> , 2013, 8, 235-264.	6.2	324
4659	Searching for the Formation of Ti-B Bonds in B-Doped TiO <sub>2</sub> Rutile. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13163-13172.	1.5	25
4660	Nonstoichiometric rutile TiO <sub>2</sub> photoelectrodes for improved photoelectrochemical water splitting. <i>Chemical Communications</i> , 2013, 49, 6191.	2.2	56
4661	Quasi-solid-state dye-sensitized solar cells assembled with polymeric ionic liquid and poly(3,4-ethylenedioxythiophene) counter electrode. <i>Electrochemistry Communications</i> , 2013, 34, 1-4.	2.3	34

#	ARTICLE	IF	CITATIONS
4662	Interfacial Charge-Transfer Loss in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2734-2739.	1.5	14
4663	Dye-Sensitized Photoelectrochemical Cells. , 2013, , 385-441.		2
4664	Effect of C content and calcination temperature on the photocatalytic activity of C-doped TiO <sub>2</sub> catalyst. <i>Separation and Purification Technology</i> , 2013, 116, 114-123.	3.9	122
4665	Anisotropic photoelectric film assembled from mesoporous silica (MS)@CuO@FeS <sub>2</sub> composite microspheres for improving photoelectric conversion. <i>Journal of Colloid and Interface Science</i> , 2013, 402, 50-57.	5.0	3
4666	Photoelectrochemical cells based on nanocrystalline TiO <sub>2</sub> synthesized by high temperature hydrolysis of ammonium dihydroxodilactatotitanate(IV). <i>Russian Journal of Electrochemistry</i> , 2013, 49, 423-427.	0.3	1
4667	Size effect of synthetic saponite-clay in quasi-solid electrolyte for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 9-14.	3.0	24
4668	Synthesis of high visible light active carbon doped TiO <sub>2</sub> photocatalyst by a facile calcination assisted solvothermal method. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 450-457.	10.8	190
4669	Degradation of Cyanoacrylic Acid-Based Organic Sensitizers in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 1270-1275.	3.6	56
4670	Organic Sensitizers Featuring a Planar Indeno[1,2- <i>b</i> ]thiophene for Efficient Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 1425-1431.	3.6	21
4671	Synthesis and characterization of organic dyes containing 2,7-disubstituted carbazole $\pi$ -linker. <i>Tetrahedron Letters</i> , 2013, 54, 3985-3989.	0.7	33
4672	Complexes with Redox-Active Ligands: Synthesis, Structure, and Electrochemical and Photophysical Behavior of the Ru(II) Complex with TTF-Annulated Phenanthroline. <i>Inorganic Chemistry</i> , 2013, 52, 8040-8052.	1.9	23
4673	Ab-initio study of free standing TiO <sub>2</sub> clusters: Stability and magnetism. <i>Journal of Applied Physics</i> , 2013, 113, 17B526.	1.1	23
4674	TiO <sub>2</sub> -Au composite for efficient UV photocatalytic reduction of Cr(VI). <i>Desalination and Water Treatment</i> , 2013, 51, 3889-3895.	1.0	8
4675	Dye-sensitized solar cells based on trench structured TiO <sub>2</sub> nanotubes in Ti substrate. <i>Current Applied Physics</i> , 2013, 13, 795-798.	1.1	13
4676	Effects of Transition Metal Doping on the Growth and Properties of Rutile TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1941-1947.	1.5	43
4677	$\hat{\rho}$ Self-Consistent Field Method for Natural Anthocyanidin Dyes. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3181-3188.	2.3	19
4679	Graphene-Ionic liquid electrolytes for dye sensitised solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8379.	5.2	47
4680	Optically transparent counter electrode for dye-sensitized solar cells based on cobalt sulfide nanosheet arrays. <i>Electrochimica Acta</i> , 2013, 107, 66-70.	2.6	34

#	ARTICLE	IF	CITATIONS
4681	Structural effect of carbazole-based coadsorbents on the photovoltaic performance of organic dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9114.	5.2	42
4682	Thickness-dependent photocatalytic performance of nanocrystalline TiO <sub>2</sub> thin films prepared by sol-gel spin coating. <i>Applied Surface Science</i> , 2013, 280, 737-744.	3.1	73
4683	Fast Electron Transport and High Surface Area: Potential Application of Porous Anatase Single Crystals in Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7933-7935.	7.2	41
4684	Tuning the Electronic Structure of Graphite Oxide through Ammonia Treatment for Photocatalytic Generation of H <sub>2</sub> and O <sub>2</sub> from Water Splitting. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6516-6524.	1.5	151
4685	High nuclearity Co polyoxometalate based artificial photosynthesis for solar hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9954-9960.	3.8	20
4686	Nanostructural dependence of hydrogen production in silicon photocathodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5414.	5.2	55
4687	Understanding electronic and optical properties of anatase TiO <sub>2</sub> photocatalysts co-doped with nitrogen and transition metals. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9549.	1.3	93
4688	Process systems opportunities in power generation, storage and distribution. <i>Computers and Chemical Engineering</i> , 2013, 51, 86-95.	2.0	40
4689	Ag/TiO <sub>2</sub> nanofiber heterostructures: Highly enhanced photocatalysts under visible light. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	37
4690	N-Doped Graphene Nanoplatelets as Superior Metal-Free Counter Electrodes for Organic Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2013, 7, 5243-5250.	7.3	238
4691	Surface passivation and band engineering: a way toward high efficiency graphene-planar Si solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8567.	5.2	123
4692	FeS <sub>2</sub> Nanocrystal Ink as a Catalytic Electrode for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6694-6698.	7.2	227
4693	Role of photoexcited electrons in hydrogen evolution from platinum co-catalysts loaded on anatase TiO <sub>2</sub> : a first-principles study. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6664.	5.2	21
4694	Switching and charging of a ruthenium dye on Ag(111). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10326.	1.3	12
4695	Photocatalysis on supported gold and silver nanoparticles under ultraviolet and visible light irradiation. <i>Green Chemistry</i> , 2013, 15, 1814.	4.6	562
4696	The importance of silica morphology in silica-titania composites with dye sensitized solar functionality. <i>Thin Solid Films</i> , 2013, 537, 80-84.	0.8	8
4697	Facile synthesis of carbon-coated hematite nanostructures for solar water splitting. <i>Energy and Environmental Science</i> , 2013, 6, 1965.	15.6	111
4698	Mixed photoelectrode based on spherical TiO <sub>2</sub> nanorod aggregates for dye-sensitized solar cells with high short-circuit photocurrent density. <i>RSC Advances</i> , 2013, 3, 8474.	1.7	14

#	ARTICLE	IF	CITATIONS
4699	Structure of Clean and Adsorbate-Covered Single-Crystal Rutile TiO <sub>2</sub> Surfaces. <i>Chemical Reviews</i> , 2013, 113, 3887-3948.	23.0	289
4700	Formation Mechanism of TiO <sub>2</sub> Nanotubes and Their Applications in Photoelectrochemical Water Splitting and Supercapacitors. <i>Langmuir</i> , 2013, 29, 5911-5919.	1.6	156
4701	Photosystem I (PSI)/Photosystem II (PSII)-Based Photo-Bioelectrochemical Cells Revealing Directional Generation of Photocurrents. <i>Small</i> , 2013, 9, 2970-2978.	5.2	95
4702	Exploiting Nanocarbons in Dye-Sensitized Solar Cells. <i>Topics in Current Chemistry</i> , 2013, 348, 53-93.	4.0	29
4703	A novel compact DPP dye with enhanced light harvesting and charge transfer properties for highly efficient DSCs. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4858.	5.2	47
4704	Electronic structure, photocatalytic properties and phonon dispersions of X-doped (X = N, B and Pt) rutile TiO <sub>2</sub> from density functional theory. <i>Solid State Sciences</i> , 2013, 22, 8-15.	1.5	12
4705	Molecular Engineering of Organic Sensitizers with Planar Bridging Units for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2013, 19, 9442-9446.	1.7	26
4706	1,4-Hydroquinone is a Hydrogen Reservoir for Fuel Cells and Recyclable via Photocatalytic Water Splitting. <i>Open Journal of Physical Chemistry</i> , 2013, 03, 97-102.	0.1	41
4707	Molecular engineering of organic sensitizers for highly efficient gel-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8226.	5.2	19
4708	Non-vacuum processed next generation thin film photovoltaics: Towards marketable efficiency and production of CZTS based solar cells. <i>Solar Energy</i> , 2013, 94, 37-70.	2.9	125
4709	Self-Assembly of Soft Matter. <i>Springer Theses</i> , 2013, , 1-17.	0.0	0
4710	Structure-Function Interplay in Dye-Sensitized Solar Cells. <i>Springer Theses</i> , 2013, , 33-50.	0.0	0
4711	Long afterglow SrAl <sub>2</sub> O <sub>4</sub> :Eu,Dy phosphors for CdS quantum dot-sensitized solar cells with enhanced photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6388.	5.2	53
4712	Enhanced photocatalytic properties of titania-graphene nanocomposites: a density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6025.	1.3	72
4713	A simple low-cost synthesis of brookite TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Research</i> , 2013, 28, 348-353.	1.2	7
4714	Toward an Understanding of the Hydrogenation Reaction of MO <sub>2</sub> Gas-Phase Clusters (M = Tj ETQq1 1 0.784314,rgBT /Ov	1.1	12
4715	Synthesis and characterization of simple trans-AB-porphyrins for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2013, 37, 1134.	1.4	11
4716	Effect of different compositions of ethylene carbonate and propylene carbonate containing iodide/triiodide redox electrolyte on the photovoltaic performance of DSSC. <i>Ionics</i> , 2013, 19, 1649-1653.	1.2	27



#	ARTICLE	IF	CITATIONS
4717	Platinum nanoparticle/self-doping polyaniline composite-based counter electrodes for dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	20
4718	Nanophotocatalysts via microwave-assisted solution-phase synthesis for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8299.	5.2	107
4719	Si/PEDOT hybrid core/shell nanowire arrays as photoelectrodes for photoelectrochemical water-splitting. <i>Nanoscale</i> , 2013, 5, 5257.	2.8	48
4720	P-type CoO nanowire arrays and their application in quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 1217-1221.	1.7	30
4721	Sensitization of p-GaP with CdSe Quantum Dots: Light-Stimulated Hole Injection. <i>Journal of the American Chemical Society</i> , 2013, 135, 9275-9278.	6.6	32
4722	Bi <sub>2</sub> MoO <sub>6</sub> microstructures: controllable synthesis, growth mechanism, and visible-light-driven photocatalytic activities. <i>CrystEngComm</i> , 2013, 15, 498-508.	1.3	83
4723	Electronic structure of Fe- vs. Ru-based dye molecules. <i>Journal of Chemical Physics</i> , 2013, 138, 044709.	1.2	13
4724	Solvothermal growth of high surface area mesoporous anatase TiO <sub>2</sub> nanospheres and investigation of dye-sensitized solar cell properties. <i>Journal of Power Sources</i> , 2013, 242, 803-810.	4.0	35
4725	Protoporphyrin IX on TiO <sub>2</sub> electrode: A spectroscopic and photovoltaic investigation. <i>Dyes and Pigments</i> , 2013, 96, 196-203.	2.0	15
4726	A new method for production of titanium dioxide pigment. <i>Hydrometallurgy</i> , 2013, 131-132, 107-113.	1.8	120
4727	TiO <sub>2</sub> nanorods via one-step electrospinning technique: A novel nanomatrix for mouse myoblasts adhesion and propagation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 101, 424-429.	2.5	27
4728	Triazoloisoquinoline-based dual functional dyestuff for dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2013, 48, 146-150.	2.7	3
4729	Cu-doping ZnO/ZnS nanorods serve as the photoanode to enhance photocurrent and conversion efficiency. <i>Microelectronic Engineering</i> , 2013, 103, 12-16.	1.1	38
4730	Surface passivation: The effects of CDCA co-adsorbent and dye bath solvent on the durability of dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 108, 70-77.	3.0	33
4731	Efficiency enhancement of dye-sensitized solar cells (DSSCs) using ligand exchanged CuInS <sub>2</sub> NCs as counter electrode materials. <i>RSC Advances</i> , 2013, 3, 14731.	1.7	18
4732	PVA-based gel polymer electrolytes doped with (CH <sub>3</sub> ) <sub>4</sub> N <sup>+</sup> I <sup>-</sup> /KI for application in dye-sensitized solar cells. , 2013, , .		7
4733	Chemical Dynamics of the First Proton-Coupled Electron Transfer of Water Oxidation on TiO <sub>2</sub> Anatase. <i>Journal of the American Chemical Society</i> , 2013, 135, 18774-18777.	6.6	147
4734	Facet-Dependent Catalytic Activity of Platinum Nanocrystals for Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2013, 3, 1836.	1.6	146

#	ARTICLE	IF	CITATIONS
4735	Open-Circuit Voltage Enhancement on the Basis of Polymer Gel Electrolyte for a Highly Stable Dye-Sensitized Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7886-7892.	4.0	35
4736	Biopolymer-Activated Graphitic Carbon Nitride towards a Sustainable Photocathode Material. <i>Scientific Reports</i> , 2013, 3, 2163.	1.6	116
4737	Relaxations of the surface photovoltage effect on the atomically controlled semiconductor surfaces studied by time-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2013, 88, .	1.1	25
4738	Wurtzite copper-zinc-tin sulfide as a superior counter electrode material for dye-sensitized solar cells. <i>Nanoscale Research Letters</i> , 2013, 8, 464.	3.1	42
4739	Phase Transformation and Charge Transfer in Heavily Iron Ion Doped Titanium Oxide and Oxynitride Nanocolloids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15287-15294.	1.5	10
4740	Dual functions of YF <sub>3</sub> :Eu <sup>3+</sup> for improving photovoltaic performance of dye-sensitized solar cells. <i>Scientific Reports</i> , 2013, 3, 2058.	1.6	80
4741	Electrical and Photoelectrochemical Properties of WO <sub>3</sub> /Si Tandem Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6949-6957.	1.5	78
4742	Hierarchical ZnO aggregates assembled by orderly aligned nanorods for dye-sensitized solar cells. <i>CrystEngComm</i> , 2013, 15, 1210.	1.3	45
4743	Tuning the Surface Structure of Nitrogen-Doped TiO <sub>2</sub> Nanofibres—An Effective Method to Enhance Photocatalytic Activities of Visible-Light-Driven Green Synthesis and Degradation. <i>Chemistry - A European Journal</i> , 2013, 19, 5731-5741.	1.7	31
4744	Photodegradation of para-nitrophenol catalyzed by Fe <sub>2</sub> O <sub>3</sub> /FeS nanocomposite. <i>Desalination and Water Treatment</i> , 2013, 51, 4744-4749.	1.0	7
4745	Nanoscale heterostructures for photoelectrochemical water splitting and photodegradation of pollutants. <i>Nanomaterials and Energy</i> , 2013, 2, 158-178.	0.1	17
4746	Stable Protein Device Platform Based on Pyridine Dicarboxylic Acid-Bound Cubic-Nanostructured Mesoporous Titania Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6873-6878.	4.0	7
4747	Mixed Solvents Assisted Flame Spray Pyrolysis Synthesis of TiO <sub>2</sub> Hierarchically Porous Hollow Spheres for Dye-Sensitized Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 11029-11035.	1.8	32
4748	Extending the limits of natural photosynthesis and implications for technical light harvesting. <i>Journal of Porphyrins and Phthalocyanines</i> , 2013, 17, 1-15.	0.4	84
4749	Constructing inverse opal structured hematite photoanodes via electrochemical process and their application to photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11717.	1.3	38
4750	Degradation study of dye-sensitized solar cells by electrochemical impedance and FTIR spectroscopy. , 2013, , .		8
4751	Modeling opto-electronic properties of a dye molecule in proximity of a semiconductor nanoparticle. <i>Journal of Chemical Physics</i> , 2013, 139, 024105.	1.2	16
4752	Enhanced performance of low-cost dye-sensitized solar cells with pulse-electropolymerized polyaniline counter electrodes. <i>Electrochimica Acta</i> , 2013, 90, 468-474.	2.6	65

#	ARTICLE	IF	CITATIONS
4753	Photo-driven autonomous hydrogen generation system based on hierarchically shelled ZnO nanostructures. <i>Applied Physics Letters</i> , 2013, 103, 223903.	1.5	4
4754	Dye-Sensitized Solar Cell Studies of a Donor-Appended Bis(2,9-dimethyl-1,10-phenanthroline) Cu(I) Dye Paired with a Cobalt-Based Mediator. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3853-3864.	1.5	54
4755	Iodine vapor doped polyaniline nanoparticles counter electrodes for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2013, 174, 6-13.	2.1	46
4756	Dye-sensitized solar cells enhanced by optical absorption, mediated by TiO <sub>2</sub> nanofibers and plasmonics Ag nanoparticles. <i>Electrochimica Acta</i> , 2013, 112, 458-464.	2.6	34
4757	Thickness-dependent molecular arrangement and topography of ultrathin ionic liquid films on a silica surface. <i>Chemical Communications</i> , 2013, 49, 7803.	2.2	34
4758	Photoelectrochemical Properties of Nanomultiple CaFe <sub>2</sub> O <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> Junction Photoelectrodes. <i>Langmuir</i> , 2013, 29, 3116-3124.	1.6	69
4759	Ta <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2</sub> Electrocatalyst Supports Exhibit Exceptional Electrochemical Stability. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1207-F1215.	1.3	42
4760	Laser applications in nanotechnology: nanofabrication using laser ablation and laser nanolithography. <i>Physics-Uspexhi</i> , 2013, 56, 643-682.	0.8	74
4761	Structural properties of rutile TiO <sub>2</sub> bombarded with Er ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 313, 50-53.	0.6	2
4762	A Novel TiO <sub>2</sub> Tape for Fabricating Dye-Sensitized Solar Cells on Universal Conductive Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 13000-13005.	4.0	6
4763	What Limits Photoconductance in Anatase TiO <sub>2</sub> Nanostructures? A Real and Imaginary Microwave Conductance Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8032-8040.	1.5	43
4764	Ink-jet-printed (ZnO) <sup>1-x</sup> (TiO <sub>2</sub> ) <sup>x</sup> composite films for solar cell applications. <i>Journal of Materials Research</i> , 2013, 28, 502-506.	1.2	9
4766	Efficiency Improvement of DSSC Photoanode by Scandium Doping of Mesoporous Titania Beads. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25276-25289.	1.5	69
4767	Hydrogenated TiO <sub>2</sub> Nanocrystals: A Novel Microwave Absorbing Material. <i>Advanced Materials</i> , 2013, 25, 6905-6910.	11.1	507
4768	Role of the Anchored Groups in the Bonding and Self-Organization of Macrocycles: Carboxylic versus Pyrrole Groups. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7661-7668.	1.5	8
4769	Organic dye-sensitized sponge-like TiO <sub>2</sub> photoanode for dye-sensitized solar cells. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120314.	1.6	7
4770	Effect of Geometric Nanostructures on the Absorption Edges of 1-D and 2-D TiO <sub>2</sub> Fabricated by Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3549-3555.	4.0	16
4771	ROS-dependent anticandidal activity of zinc oxide nanoparticles synthesized by using egg albumen as a biotemplate. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2013, 4, 035015.	0.7	93

#	ARTICLE	IF	CITATIONS
4772	Carbon nanotube and graphite oxide surfaces modified with polyethylene oxide for dye-sensitized solar cells. <i>Journal of Polymer Research</i> , 2013, 20, 1.	1.2	16
4773	One-Dimensional $TiO_2$ Nanorods as Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-11.	11.1	124
4774	Investigation of porosity and heterojunction effects of a mesoporous hematite electrode on photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9775.	1.3	38
4775	Integration of Photoswitchable Proteins, Photosynthetic Reaction Centers and Semiconductor/Biomolecule Hybrids with Electrode Supports for Optobioelectronic Applications. <i>Advanced Materials</i> , 2013, 25, 349-377.	11.1	124
4776	Vertically Aligned $Ta_3N_5$ Nanorod Arrays for Solar-Driven Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2013, 25, 125-131.	11.1	363
4777	A transparent and stable polypyrrole counter electrode for dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2013, 221, 78-83.	4.0	136
4778	Semiconductors for Photoelectrochemical Hydrogen Generation. , 2013, , 201-232.		0
4779	Flexible solid-state electrochromic devices based on amorphous $WO_3$ thin films. , 2013, , .		0
4780	Novel Catalysts for Water Splitting and Green Chemistry Applications. <i>Science Progress</i> , 2013, 96, 309-316.	1.0	4
4781	Secure & Efficient DSSC with Nano-clay Electrolyte. , 2013, , .		0
4782	Effect of polymer morphology on P3HT-based solid-state dye sensitized solar cells: an ultrafast spectroscopic investigation. <i>Optics Express</i> , 2013, 21, A469.	1.7	17
4783	Theoretical study on aggregation of organic dyes on $TiO_2$ surface in dye-sensitized solar cells. , 2013, , .		0
4784	Enhancement of photoelectrochemical properties of $TiO_2$ nanotube loaded with gold nanoparticles. , 2013, , .		0
4785	Interaction of $TiO_2$ with water: Photoelectron spectroscopy and density functional calculations. <i>Journal of Chemical Physics</i> , 2013, 139, 184303.	1.2	6
4786	Micro and Extended-Nano Fluidics and Optics for Chemical and Bioanalytical Technology. <i>Nano-optics and Nanophotonics</i> , 2013, , 121-164.	0.2	3
4787	A methylene bridged bisimidazolium iodide based low-volatility electrolyte for efficient dye-sensitized solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 043121.	0.8	1
4788	Photovoltaic Performance of $ZnO$ Nanorod and $ZnO/CdO$ Nanocomposite Layers in Dye-Sensitized Solar Cells (DSSCs). <i>International Journal of Photoenergy</i> , 2013, 2013, 1-6.	1.4	15
4789	$TiO_2$ Nanotube Array as Efficient Transparent Photoanode in Dye-Sensitized Solar Cell with High Electron Lifetime. <i>Acta Physica Polonica A</i> , 2013, 123, 376-379.	0.2	6

#	ARTICLE	IF	CITATIONS
4790	Influences of Stacking Architectures of TiO <sub>2</sub> Nanoparticle Layers on Characteristics of Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2013, 2013, 1-12.	1.5	3
4791	Cu(OH) <sub>2</sub> /N-TiO <sub>2</sub> Compound Heterojunction Photocatalyst: Preparation, Characterization and Photocatalytic Properties. Advanced Materials Research, 0, 652-654, 774-778.	0.3	1
4792	Effect of In <sub>2</sub> S <sub>3</sub> Buffer Layer in TiO <sub>2</sub> /In <sub>2</sub> S <sub>3</sub> /CuInS <sub>2</sub> Structure. Advanced Materials Research, 2013, 702, 123-127.	0.3	0
4793	Synthesis and Gas Sensing Properties of Palladium Doped Titanium Dioxide Nanoparticles. Advanced Materials Research, 0, 716, 74-77.	0.3	0
4794	Influence of Particle Size of TiO <sub>2</sub> Powder on the Energy Conversion Efficiency of a Dye-Sensitized Solar Cell. Advanced Materials Research, 0, 650, 39-43.	0.3	0
4795	Ultradurable Dye-Sensitized Solar Cells under 120°C Using Cross-Linkage Dye and Ionic-Liquid Electrolyte. International Journal of Photoenergy, 2013, 2013, 1-9.	1.4	5
4796	The Influence of the Ammonolysis Temperature on the Photocatalytic Activity of <i>Î</i> <sup>2</sup> -TaON. International Journal of Photoenergy, 2013, 2013, 1-8.	1.4	2
4797	Array fabrication and photoelectrochemical properties of Sn-doped vertically oriented hematite nanorods for solar cells. Journal of Renewable and Sustainable Energy, 2013, 5, 021416.	0.8	4
4798	Enhanced Solar Photoelectrochemical Conversion Efficiency of ZnO:Cu Electrodes for Water-Splitting Application. International Journal of Photoenergy, 2013, 2013, 1-9.	1.4	40
4799	Optimization of black dye-sensitized solar cells by numerical simulation. Journal of Renewable and Sustainable Energy, 2013, 5, 041818.	0.8	1
4800	Dye-Sensitized Solar Cells with Optimal Gel Electrolyte Using the Taguchi Design Method. International Journal of Photoenergy, 2013, 2013, 1-5.	1.4	7
4801	The Role of the Conjugate Bridge in Electronic Structures and Related Properties of Tetrahydroquinoline for Dye Sensitized Solar Cells. International Journal of Molecular Sciences, 2013, 14, 5461-5481.	1.8	66
4802	Understanding the Electronic Structures and Absorption Properties of Porphyrin Sensitizers YD2 and YD2-o-C8 for Dye-Sensitized Solar Cells. International Journal of Molecular Sciences, 2013, 14, 20171-20188.	1.8	54
4803	Electrophoretic Deposition of Titania Thin Films: Influence of Deposition Time on Microstructural and Optical Properties of the Coatings. Advanced Materials Research, 0, 829, 917-921.	0.3	0
4804	Photocatalytic Hydrogen Production. Materials Science Forum, 0, 764, 151-168.	0.3	2
4805	Self-cleaning tiles and glasses for eco-efficient buildings. , 2013, , 327-342.		3
4806	Electrophoretic Deposition of TiO <sub>2</sub> Films on Metal Mesh for Dye-Sensitized Solar Cells. Advanced Materials Research, 2013, 712-715, 329-332.	0.3	0
4807	Investigation of Solar Photoelectrochemical Hydrogen Generation Ability of Ferrites for Energy Production. Materials Science Forum, 2013, 764, 97-115.	0.3	3

#	ARTICLE	IF	CITATIONS
4808	Synthesis of Titania Nanowires From Local Synthetic Rutiles. Materials Science Forum, 0, 756, 31-36.	0.3	0
4809	Low-temperature-sintered Dye-sensitized Solar Cell Using Surface Treatment of TiO <sub>2</sub> Photoelectrode with Ultraviolet Light. Chemistry Letters, 2013, 42, 624-626.	0.7	11
4810	Effect of Cu(Cr <sub>0.2</sub> Al <sub>0.8</sub> ) <sub>2</sub> O <sub>4</sub> /TiO <sub>2</sub> Composite Film Electrodes on DSSC Photoelectric Properties. Applied Mechanics and Materials, 2013, 275-277, 1683-1687.	0.2	0
4811	Synthesis and Characterization of Luminescent TiO <sub>2</sub> /Polymer Nanocomposites. Advanced Materials Research, 0, 873, 492-495.	0.3	0
4812	Monolithic quasi-solid-state dye-sensitized solar cells based on graphene modified mesoscopic carbon counter electrodes. , 2013, , .		0
4813	Nanocrystalline Functional Oxide Materials. , 2013, , 517-552.		1
4814	Labeling interacting configurations through an analysis of excitation dynamics in a resonant photoemission experiment: the case of rutile TiO <sub>2</sub> . Journal of Physics Condensed Matter, 2013, 25, 075502.	0.7	11
4815	TEM Study of Rutile-Phase TiO <sub>2</sub> Nanosheets. Advanced Materials Research, 0, 850-851, 156-159.	0.3	0
4816	Microwave-Assisted Hydrothermal Synthesis of TiO <sub>2</sub> Mesoporous Beads Having C and/or N Doping for Use in High Efficiency All-Plastic Flexible Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2013, 160, H160-H165.	1.3	16
4817	Structural and Optical Properties of Pulse Laser Deposited TiO <sub>2</sub> Thin Films. Key Engineering Materials, 0, 537, 224-228.	0.4	1
4818	CuZnSnSe Thin Film Electrodes Prepared by Vacuum Evaporation: Enhancement of Surface Morphology and Photoelectrochemical Characteristics by Argon Gas. Materials Science Forum, 2013, 756, 273-280.	0.3	12
4819	The Optimization of InP/ZnS core/shell Nanocrystals and TiO <sub>2</sub> Nanotubes for Quantum Dot Sensitized Solar Cells. Materials Research Society Symposia Proceedings, 2013, 1578, 1.	0.1	0
4820	Seebeck Coefficient of Nanolayer Growth of Anatase TiO <sub>2-x</sub> /Al-foil by Atomic Layer Deposition. Materials Research Society Symposia Proceedings, 2013, 1494, 271-275.	0.1	0
4821	Preparation and Photoelectrocatalytic Performance of TiO <sub>2</sub> Nano-Tubes Arrays Electrode. Advanced Materials Research, 2013, 661, 11-15.	0.3	2
4822	Development of metal tungstate alloys for photoelectrochemical water splitting. Proceedings of SPIE, 2013, , .	0.8	1
4823	Surface Sites of Nanomaterials: Investigation of Local Structures by In Situ IR Spectroscopy. Springer Proceedings in Physics, 2013, , 145-163.	0.1	3
4824	TiO <sub>2</sub> nanocrystals coated rutile nanorod microspheres as the scattering layers for dye-sensitized solar cells. Proceedings of SPIE, 2013, , .	0.8	1
4825	Monolithic all-solid-state dye-sensitized solar cells. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
4826	Improvement of Si Adhesion and Reduction of Electron Recombination for Si Quantum Dot-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 01AD05.	0.8	12
4827	Preparation of High Performance Pt Counter Electrodes on Conductive Plastic Substrate for Flexible Dye-Sensitized Solar Cells. Key Engineering Materials, 2013, 544, 101-104.	0.4	1
4828	The structure of water on rutile TiO <sub>2</sub> (110) for applications in solar hydrogen production: towards a predictive model using hybrid-exchange density functional theory. Materials Research Society Symposia Proceedings, 2013, 1542, 1.	0.1	0
4829	Large Pore Nanocrystalline TiO <sub>2</sub> Films for Quasi-Solid State Dye-Sensitized Solar Cells. Advanced Materials Research, 2013, 662, 177-181.	0.3	1
4830	Electronic Structure Calculations in Molecules. Springer Tracts in Modern Physics, 2013, , 183-230.	0.1	0
4831	Highly controlled crystallite size and crystallinity of pure and iron-doped anatase-TiO <sub>2</sub> nanocrystals by continuous flow supercritical synthesis. Journal of Materials Research, 2013, 28, 333-339.	1.2	33
4832	TiO <sub>2</sub> -polyheptazine hybrid photoanodes: Effect of cocatalysts and external bias on visible light-driven water splitting. Journal of Materials Research, 2013, 28, 411-417.	1.2	17
4833	Simulation of Particle Synthesis by Premixed Laminar Stagnation Flames. Materials Research Society Symposia Proceedings, 2013, 1506, 1.	0.1	2
4834	Simulating Constant Current STM Images of the Rutile TiO <sub>2</sub> (110) Surface for Applications in Solar Water Splitting. Materials Research Society Symposia Proceedings, 2013, 1494, 339-344.	0.1	3
4835	Orientation domains in the intermediate product Na <sub>3</sub> TiOF <sub>5</sub> during the synthesis of anatase TiO <sub>2</sub> nanosheets with exposed reactive {001} facets. Journal of Applied Crystallography, 2013, 46, 1741-1748.	1.9	7
4836	Improving the Spectral Response of Black Dye by Cosensitization with a Simple Indoline Based Dye in Dye-Sensitized Solar Cell. Journal of Chemistry, 2013, 2013, 1-5.	0.9	10
4837	Combined Catalysis and Optical Screening for High Throughput Discovery of Solar Fuels Catalysts. Journal of the Electrochemical Society, 2013, 160, F337-F342.	1.3	50
4838	The Effects of Malonic Acid Derivatives and Acetic Acid Derivatives as Coadsorbents on the Photovoltaic Performance of Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2013, 2013, 1-6.	1.4	3
4839	Kinetics Study of Photocatalytic Activity of Flame-Made Unloaded and Fe-Loaded CeO <sub>2</sub> Nanoparticles. International Journal of Photoenergy, 2013, 2013, 1-9.	1.4	26
4840	Bridging the Fields of Solar Cell and Battery Research to Develop High-Performance Anodes for Photoelectrochemical Cells and Metal Ion Batteries. Challenges, 2013, 4, 116-135.	0.9	6
4841	The Influence of TiO <sub>2</sub> Photoanode Morphology for Scattering Enhanced Properties of Dye-Sensitized Solar Cell. Advanced Materials Research, 2013, 667, 425-434.	0.3	3
4842	Mechanism of Current Transport for a Photoelectrochemical Cells of ITO/Cu <sub>2</sub> O/PVC/LiClO <sub>4</sub> /Graphite. Advanced Materials Research, 2013, 795, 568-572.	0.3	0
4843	Effect of Photoelectrode with Phosphor-Containing TiO <sub>2</sub> Layer for Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 11NM03.	0.8	1

#	ARTICLE	IF	CITATIONS
4844	Computing UV/vis spectra from the adiabatic and vertical Franck-Condon schemes with the use of Cartesian and internal coordinates. <i>Journal of Chemical Physics</i> , 2013, 139, 234108.	1.2	40
4845	Intrinsic Nitrogen-doped CVD-grown TiO <sub>2</sub> Thin Films from Al-coordinated Ti Precursors for Photoelectrochemical Applications. <i>Chemical Vapor Deposition</i> , 2013, 19, 45-52.	1.4	32
4846	First resonance energy transfer in poly(methyl methacrylates) copolymers bearing donor-acceptor 1,3-thiazole dyes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4765-4773.	2.5	6
4847	Photoconductive ZnO films with embedded quantum dot or ruthenium dye sensitizers. <i>APL Materials</i> , 2013, 1, .	2.2	4
4848	Research Update: Doping ZnO and TiO <sub>2</sub> for solar cells. <i>APL Materials</i> , 2013, 1, .	2.2	96
4849	Electrostatic drift effects on near-surface defect distribution in TiO <sub>2</sub> . <i>Applied Physics Letters</i> , 2013, 103, 141601.	1.5	19
4850	Dynamics of hydrogen sensing with Pt/TiO <sub>2</sub> Schottky diodes. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	27
4851	Iridium and Rhodium Complexes within a Macroreticular Acidic Resin: A Heterogeneous Photocatalyst for Visible-light Driven H <sub>2</sub> Production without an Electron Mediator. <i>Chemistry - an Asian Journal</i> , 2013, 8, 3207-3213.	1.7	19
4853	A Highly Conjugated Benzimidazole Carbene-based Ruthenium Sensitizer for Dye-sensitized Solar Cells. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2196-2203.	1.7	9
4854	Synthesis and Characterization of Titania Nanoparticles Functionalized With Hyperbranched Polymer Via Self-Condensing Vinyl Polymerization. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2013, 43, 1034-1039.	0.6	5
4855	Investigation on the Photovoltaic Performance of ZnO Nanoarrays Prepared by Chemical Bath Deposition and Hydrothermal Method. <i>Applied Mechanics and Materials</i> , 2013, 395-396, 170-173.	0.2	0
4856	Lithium Reaction to Improve the Rate Performance of Nanoporous Anatase TiO <sub>2</sub> Anodes. <i>Energy Technology</i> , 2013, 1, 668-674.	1.8	30
4857	Investigation of the photoelectrochemical effect in optoelectrodes and potential uses for implantable electrode characterization. , 2013, 2013, 3032-5.		18
4858	Copper quantum dots on TiO <sub>2</sub> : A high-performance, low-cost, and nontoxic photovoltaic material. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 021413.	0.8	6
4859	Study of the Conductivity Mechanism of Non-Illuminated TiO <sub>2</sub> Electrodes Modified with Bipyridine- and Terpyridine-Ru(II) Complexes. <i>Journal of the Electrochemical Society</i> , 2013, 160, H836-H840.	1.3	2
4860	Exploring the local structure of Fe in Co <sub>3</sub> FeO <sub>4</sub> electrode by XAFS. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012059.	0.3	0
4861	Electrochemically gated organic photovoltaic with tunable carbon nanotube cathodes. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	6
4862	Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Application in TiO <sub>2</sub> Solar Cell as Dye. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, Q95-Q98.	0.9	30



#	ARTICLE	IF	CITATIONS
4863	Improvement on the Electron Transfer of Dye-Sensitized Solar Cell Using Vanadium Doped TiO <sub>2</sub> . Japanese Journal of Applied Physics, 2013, 52, 11NM02.	0.8	11
4864	CHAPTER 4. Tandem Photoelectrochemical Cells for Water Splitting. RSC Energy and Environment Series, 0, , 83-108.	0.2	12
4865	Influence of TiCl <sub>4</sub> Treatment on Structure and Performance of Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 075002.	0.8	27
4866	The Polarity Effect on the Photoelectrochemical Properties of Ga- and N-Face Free-Standing GaN Substrate. Japanese Journal of Applied Physics, 2013, 52, 08JN26.	0.8	4
4867	Effect of Valeric Acid as a Co-adsorbate on the Performance of Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2013, 586, 9-15.	0.4	3
4870	Narrow-bandwidth solar upconversion: Case studies of existing systems and generalized fundamental limits. Journal of Applied Physics, 2013, 113, .	1.1	73
4871	Bis(4-(4-pyridyl)-2,6-terpyridine)ruthenium(ii) complexes and their N-alkylated derivatives in catalytic light-driven water oxidation. RSC Advances, 2013, 3, 20647.	1.7	18
4872	Preparation of Smooth Surface TiO <sub>2</sub> Photoanode for High Energy Conversion Efficiency in Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2013, 2013, 1-8.	1.5	18
4873	STABLE STRUCTURES AND CHARACTERISTIC VIBRATIONAL SPECTRA OF Ti <sub>n</sub> O <sub>m</sub> (n = 2 <sup>4</sup> ; m = 1 <sup>2n</sup> ) CLUSTERS. Journal of Theoretical and Computational Chemistry, 2013, 12, 1250094.	1.8	5
4874	Novel Photoelectrochemical Biosensors for Cholesterol Biosensing by Photonic Wiring of Cholesterol Oxidase. Journal of Macromolecular Science - Pure and Applied Chemistry, 2013, 50, 1182-1193.	1.2	8
4875	Study the effect of TiO <sub>2</sub> ; annealing and TiCl <sub>4</sub> treatment on the performance of dye-sensitized solar cells. , 2013, , .		1
4876	Synthesis of Cobalt-Based Catalyst Supported on TiO <sub>2</sub> Nanotubes and its Fischer-Tropsch Reaction. Integrated Ferroelectrics, 2013, 147, 59-66.	0.3	7
4877	Superhydrophobic Carbon Nanotube Electrode Produces a Near-Symmetrical Alternating Current from Photosynthetic Protein-Based Photoelectrochemical Cells. Advanced Functional Materials, 2013, 23, 5556-5563.	7.8	31
4878	Nanosilver-Decorated TiO <sub>2</sub> Nanofibers Coated with a SiO <sub>2</sub> Layer for Enhanced Light Scattering and Localized Surface Plasmons in Dye-Sensitized Solar Cells. Chemistry - A European Journal, 2013, 19, 13120-13126.	1.7	17
4879	Quantum Chemical Designing of Efficient TC4-Based Sensitizers by Modification of Auxiliary Donor and $\pi$ -Spacer. Bulletin of the Chemical Society of Japan, 2013, 86, 1272-1281.	2.0	30
4880	Working principles of solar and other energy conversion cells. Nanomaterials and Energy, 2013, 2, 3-10.	0.1	9
4881	Introduction to Production of Valuable Compounds from Biomass and Waste Valorization Using Nanomaterials. , 2013, , 13-18.		2
4883	Harnessing sunlight by photocatalysis: a sustainable pathway for renewable fuels and clean water. Nanomaterials and Energy, 2013, 2, 114-116.	0.1	2

#	ARTICLE	IF	CITATIONS
4884	Etching damage and its recovery by soft X-ray irradiation observed in soft X-ray absorption spectra of TiO <sub>2</sub> thin film. <i>Journal of Applied Physics</i> , 2013, 113, 126101.	1.1	2
4886	Vibrational spectroscopic studies on pure and metal-covered metal oxide surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1204-1221.	0.7	19
4887	Nanostructured Alkaline-Cation-Containing MnO <sub>2</sub> for Photocatalytic Water Oxidation. <i>Advanced Functional Materials</i> , 2013, 23, 878-884.	7.8	82
4889	Visible-Light Photocatalytic Conversion of Carbon Monoxide to Methane by Nickel(II) Oxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12983-12987.	7.2	49
4890	<i>In vitro</i> Photo-Oxidation of Pyruvate to Acetyl: A Main Source for the Formation of Acetyl Coenzyme A in the Citric Acid Cycle to Perform Biochemical Reactions. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 671-676.	0.8	1
4891	Crystallization of Tungsten Trioxide Having Small Mesopores: Highly Efficient Photoanode for Visible-Light-Driven Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12606-12609.	7.2	70
4894	SYNTHESIS AND PHOTSENSITIVE PERFORMANCE OF NANOSTRUCTURED ZnO/DYE HYBRID FILM FOR ENERGY CONVERSION. <i>International Journal of Modern Physics Conference Series</i> , 2013, 22, 18-23.	0.7	1
4895	Local structure of Mo-doped TiO <sub>2</sub> photocatalysts investigated by X-ray absorption fine structure. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012090.	0.3	4
4896	PHOTOELECTROCHEMICAL WATER SPLITTING USING BILAYERED ZnO/SrTiO <sub>3</sub> PHOTOELECTRODES. <i>International Journal of Modern Physics Conference Series</i> , 2013, 22, 545-551.	0.7	4
4897	Incorporation of Thiadiazole Derivatives as $\pi$ -Spacer to Construct Efficient Metal-free Organic Dye Sensitizers for Dye-sensitized Solar Cells: A Theoretical Study. <i>Communications in Computational Chemistry</i> , 2013, 1, 152-170.	1.0	41
4898	Harnessing Sun's Energy with Quantum Dots Based Next Generation Solar Cell. <i>Nanomaterials</i> , 2013, 3, 22-47.	1.9	46
4899	An overview of molecular acceptors for organic solar cells. <i>EPJ Photovoltaics</i> , 2013, 4, 40401.	0.8	56
4901	Fabrication of Dye-sensitized Solar Cells Using Electrostatic Inkjet Printing. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 383-385.	0.1	6
4902	Near-field effects and energy transfer in hybrid metal-oxide nanostructures. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 306-317.	1.5	5
4903	Photoelectrochemical and Raman characterization of In <sub>2</sub> O <sub>3</sub> mesoporous films sensitized by CdS nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 255-261.	1.5	11
4904	High-Efficiency Photochemical Water Splitting of CdZnS/CdZnSe Nanostructures. <i>Journal of Materials</i> , 2013, 2013, 1-7.	0.1	3
4905	Ordered Porous Nanomaterials: The Merit of Small. <i>ISRN Nanotechnology</i> , 2013, 2013, 1-29.	1.3	11
4906	DFT Study of Binding and Electron Transfer from a Metal-Free Dye with Carboxyl, Hydroxyl, and Sulfonic Anchors to a Titanium Dioxide Nanocluster. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-15.	1.4	23

#	ARTICLE	IF	CITATIONS
4907	An Investigation of Nanocrystalline and Electrochemically Grown Cu <sub>2</sub> ZnSnS <sub>4</sub> Thin Film Using Redox Couples of Different Band Offset. Journal of Spectroscopy, 2013, 2013, 1-9.	0.6	5
4911	Photoelectrochemical Studies on CdS/Poly Ethyl-Aniline Interfaces. International Journal of Chemistry, 2013, 5, .	0.3	1
4912	Revisiting Sulphide Mineral (Bio) Processing: A Few Priorities and Directions. Journal of Powder Metallurgy and Mining, 2013, 02, .	0.2	0
4913	The CdS/CdSe/ZnS Photoanode Cosensitized Solar Cells Based on Pt, CuS, <b>Cu</b><sub>2</sub></b></sub><b>S</b>, and PbS Counter Electrodes. Advances in OptoElectronics, 2014, 2014, 1-9.	0.6	19
4914	Light Harvesting Proteins for Solar Fuel Generation in Bioengineered Photoelectrochemical Cells. Current Protein and Peptide Science, 2014, 15, 374-384.	0.7	40
4915	Photocatalysis for Renewable Energy Production Using PhotoFuelCells. Molecules, 2014, 19, 19732-19750.	1.7	46
4916	DFT study of binding and electron transfer from colorless aromatic pollutants to a TiO <sub>2</sub> nanocluster: Application to photocatalytic degradation under visible light irradiation. Beilstein Journal of Nanotechnology, 2014, 5, 1016-1030.	1.5	14
4917	Growth and characterization of CNTâ€“TiO<sub>2</sub> heterostructures. Beilstein Journal of Nanotechnology, 2014, 5, 946-955.	1.5	25
4918	Electric Fieldâ€“Assisted Chemical Vapor Deposition for Nanostructured Thin Films. , 2014, , 171-190.		3
4919	Physical and Mechanical Properties of Nylon 6/ Titanium Dioxide Micro and Nano-Composite Multifilament Yarns. Journal of Engineered Fibers and Fabrics, 2014, 9, 155892501400900.	0.5	1
4923	Two-dimensional spectroscopic observation of a pulse-modulated induction thermal plasma torch for nanopowder synthesis. Journal of Physics: Conference Series, 2014, 550, 012026.	0.3	12
4925	Modulation of physical and photocatalytic properties of (Cr, N) codoped TiO <sub>2</sub> nanorods using soft solution processing. Journal of Applied Physics, 2014, 115, 144305.	1.1	23
4926	Well-dispersed Pt nanocrystals on the heterostructured TiO <sub>2</sub> /SnO <sub>2</sub> nanofibers and the enhanced photocatalytic properties. Applied Surface Science, 2014, 319, 21-28.	3.1	43
4927	Impact of lattice mismatch and stoichiometry on the structure and bandgap of (Fe,Cr)<sub>2</sub><sub>3</sub>epitaxial thin films. Journal of Physics Condensed Matter, 2014, 26, 135005.	0.7	29
4929	Characterization of Nanoâ€“titania Modified CdS /Polysulfide Electrolyte Interface by Utilizing Motti&Schottky and Electrochemical Impedance Spectroscopy. Electroanalysis, 2014, 26, 2403-2407.	1.5	12
4930	Geâ€“Mediated Modification in Ta<sub>3</sub>N<sub>5</sub> Photoelectrodes with Enhanced Charge Transport for Solar Water Splitting. Chemistry - A European Journal, 2014, 20, 16384-16390.	1.7	38
4931	HIGH-FREQUENCY MAGNETOCAPACITANCE EFFECT IN ORGANIC SPIN VALVE WITH A 3,4,9,10-PERYLENE-TERACARBOXYLIC-DIANHYDRIDE SPACER. Spin, 2014, 04, 1440015.	0.6	4
4932	Photovoltaic performance of multi-wall carbon nanotube/PEDOT:PSS composite on the counter electrode of a dye-sensitized solar cell. Japanese Journal of Applied Physics, 2014, 53, 08NJ02.	0.8	6

#	ARTICLE	IF	CITATIONS
4933	Emerging photon technologies for chemical dynamics. Faraday Discussions, 2014, 171, 11-40.	1.6	20
4934	EFFECT OF SUBSTITUENTS IN THE IMIDAZOLIUM RING ON THE PERFORMANCE OF SOLID-STATE DYE-SENSITIZED SOLAR CELLS. Nano, 2014, 09, 1440006.	0.5	13
4935	Second Generation Nitrogen Doped Titania Nanoparticles: A Comprehensive Electronic and Microstructural Picture. Chinese Journal of Chemistry, 2014, 32, 1195-1213.	2.6	20
4936	Photoelectrochemical Water Splitting and Hydrogen Generation Using InGaN/GaN Nanowire Arrays. , 2014, , .		2
4937	Sandwiched Nanostructured NiO/ZnO Nanowires@Fe <sub>2</sub> O <sub>3</sub> Film Photoanode with a Synergistic Effect and p-n Junction for Efficient Photoelectrochemical Water Splitting. ChemElectroChem, 2014, 1, 2089-2097.	1.7	19
4938	Evidence for the intrinsic nature of band-gap states electrochemically observed on atomically flat TiO <sub>2</sub> (110) surfaces. Physical Chemistry Chemical Physics, 2014, 16, 24784-24789.	1.3	16
4939	CdS x Se <sub>1-x</sub> alloyed quantum dots-sensitized solar cells based on different architectures of anodic oxidation TiO <sub>2</sub> film. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	5
4940	The adsorption of $\gamma$ -cyanoacrylic acid on anatase TiO <sub>2</sub> (101) and (001) surfaces: A density functional theory study. Journal of Chemical Physics, 2014, 141, 234705.	1.2	22
4941	Surface modification of dye-sensitized solid-state solar cells by atmospheric-pressure plasma jet. Japanese Journal of Applied Physics, 2014, 53, 11RF02.	0.8	5
4942	A strategy of enhancing the photoactivity of TiO <sub>2</sub> containing nonmetal and transition metal dopants. Chinese Physics B, 2014, 23, 027305.	0.7	4
4943	Preparation of highly luminescent CdSe quantum dots by reverse micelles. Japanese Journal of Applied Physics, 2014, 53, 08ME03.	0.8	0
4944	Ferromagnetism in Gd doped ZnO nanowires: A first principles study. Journal of Applied Physics, 2014, 116, .	1.1	48
4945	Aggregation control of organic sensitizers for panchromatic dye co-sensitized solar cells. Japanese Journal of Applied Physics, 2014, 53, 08NC04.	0.8	7
4946	The influence of polarity of electrodeposited Cu <sub>2</sub> O thin films on the photoelectrochemical performance. Japanese Journal of Applied Physics, 2014, 53, 08NJ01.	0.8	3
4948	Photocatalytic activity of titanium dioxide modified by Fe <sub>2</sub> O <sub>3</sub> nanoparticles. Applied Surface Science, 2014, 319, 173-180.	3.1	40
4949	Introductory lecture: Systems materials engineering approach for solar-to-chemical conversion. Faraday Discussions, 2014, 176, 9-16.	1.6	0
4951	Improved photoelectric conversion efficiency from titanium oxide-coupled tin oxide nanoparticles formed in flame. Journal of Power Sources, 2014, 268, 922-927.	4.0	18
4952	Unique and facile solvothermal synthesis of mesoporous WO <sub>3</sub> using a solid precursor and a surfactant template as a photoanode for visible-light-driven water oxidation. Nanoscale Research Letters, 2014, 9, 542.	3.1	9

#	ARTICLE	IF	CITATIONS
4955	ZnO Thin Film Prepared by Two-Step Electrodeposition Method for Dye-Sensitized Solar Cell. Materials Science Forum, 2014, 809-810, 665-671.	0.3	0
4956	ZnO/TiO <sub>2</sub> composite photoanodes for efficient dye-sensitized solar cells. Functional Materials Letters, 2014, 07, 1450039.	0.7	4
4957	Development of low-temperature sintering technique for plastic dye-sensitized solar cells. , 2014, , .		0
4958	Template assisted growth of microporous structures of CdSe <sub>x</sub> Te <sub>1-x</sub> and thin film photocurrent studies. Materials Research Express, 2014, 1, 035037.	0.8	2
4959	A Ruthenium-Based Light-Harvesting Antenna Bearing an Anthracene Moiety in Dye-Sensitized Solar Cells. Asian Journal of Organic Chemistry, 2014, 3, 953-962.	1.3	11
4961	The Effect of Phosphor-TiO <sub>2</sub> Layer on the Performance of Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2014, 600, 47-55.	0.4	10
4962	Fabrication, Characterization, and Optimization of CdS and CdSe Quantum Dot-Sensitized Solar Cells with Quantum Dots Prepared by Successive Ionic Layer Adsorption and Reaction. International Journal of Photoenergy, 2014, 2014, 1-14.	1.4	25
4963	Fragmentation of disordered titanium monoxide of stoichiometric composition TiO. Russian Chemical Bulletin, 2014, 63, 2729-2732.	0.4	12
4964	Introduction to Organic Solar Cells. , 2014, , 1-18.		3
4965	TiCl <sub>4</sub> Pretreatment and Electrodeposition Time Investigations of ZnO Photoelectrodes Preparation for Dye Sensitized Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-6.	1.4	1
4966	Preparation of Ni Doped ZnO-TiO <sub>2</sub> Composites and Their Enhanced Photocatalytic Activity. International Journal of Photoenergy, 2014, 2014, 1-8.	1.4	9
4967	Review of Polymer, Dye-Sensitized, and Hybrid Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-12.	1.4	8
4968	Numerical Procedure for Optimizing Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	6
4969	Structural and Spectral Properties of 1,2-dihydroxy-9,10-anthraquinone Dye Sensitizer for Solar Cell Applications. Acta Physica Polonica A, 2014, 126, 833-840.	0.2	15
4970	Enhancing Performance of Dye-Sensitized Solar Cell Influenced by Phosphor ZnGa <sub>2</sub> O <sub>4</sub> . Molecular Crystals and Liquid Crystals, 2014, 598, 40-46.	0.4	1
4971	Characterization and Performance Evaluation of Dye Sensitized Solar Cell Using Nanostructured TiO <sub>2</sub> Electrode. International Journal of Photoenergy, 2014, 2014, 1-6.	1.4	5
4972	Solution Processed Silver Nanoparticles in Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2014, 2014, 1-11.	1.5	16
4973	Sol-Gel Synthesized Semiconductor Oxides in Photocatalytic Degradation of Phenol. , 2014, 2014, 1-7.		3

#	ARTICLE	IF	CITATIONS
4974	ZnTe Semiconductor-Polymer Gel Compositated Electrolyte for Conversion of Solar Energy. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	15
4975	Cu-Doped-CdS/In-Doped-CdS Cosensitized Quantum Dot Solar Cells. Journal of Nanomaterials, 2014, 2014, 1-8.	1.5	15
4976	Electrodeposition Combination with Hydrothermal Preparation of ZnO Films and Their Application in Dye-Sensitized Solar Cell. Journal of Chemistry, 2014, 2014, 1-5.	0.9	0
4977	Hematite nanostructures for high efficient solar water splitting. , 2014, , .		4
4978	Photoelectrochemical performance of DSSC with monodisperse and polydisperse ZnO SPs. , 2014, , .		5
4979	Synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles by solution based solid state reaction process and its application in dye sensitized solar cell as counter electrode. , 2014, , .		1
4980	THz photoconductivity in light-emitting surface-oxidized Si nanocrystals: the role of large particles. New Journal of Physics, 2014, 16, 093013.	1.2	19
4981	ZnO nanocactus loaded with gold nanoparticles for dye sensitized solar cells. , 2014, , .		3
4982	Conjugated polymer-based broadband terahertz wave modulator. Optics Letters, 2014, 39, 6110.	1.7	61
4983	Chemistry of Sensitizers for Dye-sensitized Solar Cells. RSC Energy and Environment Series, 2014, , 186-241.	0.2	3
4984	Theoretical Studies on Metalloporphyrinâ€“Polyoxometalates Hybrid Complexes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 29623-29628.	1.5	23
4985	Kinetic model for electric-field induced point defect redistribution near semiconductor surfaces. Applied Physics Letters, 2014, 105, .	1.5	13
4986	Effects of Ag-ion implantation on the performance of DSSCs with a tri-layer TiO <sub>2</sub> film. RSC Advances, 2014, 4, 56318-56322.	1.7	17
4987	In Situ Generation of Electron Acceptor for Photoelectrochemical Biosensing via Hemin-Mediated Catalytic Reaction. Analytical Chemistry, 2014, 86, 12362-12368.	3.2	79
4988	pH Dependent Behavior and Effects of Photoinduced Surface States during Water Photooxidation at TiO <sub>2</sub> /Solution Interface: Studied by Capacitance Measurements. Journal of the Electrochemical Society, 2014, 161, H144-H153.	1.3	10
4989	Effective Solid Electrolyte Based on Benzothiazolium for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 22088-22095.	4.0	14
4990	Photoelectrochemical water splitting and hydrogen generation by a spontaneously formed InGaN nanowall network. Applied Physics Letters, 2014, 104, .	1.5	27
4991	Origin of the Increased Photocatalytic Performance of TiO <sub>2</sub> Nanocrystal Composed of Pure Core and Heavily Nitrogen-Doped Shell: A Theoretical Study. ACS Applied Materials & Interfaces, 2014, 6, 22815-22822.	4.0	25

#	ARTICLE	IF	CITATIONS
4992	Theoretical approach for optical response in electrochemical systems: Application to electrode potential dependence of surface-enhanced Raman scattering. <i>Journal of Chemical Physics</i> , 2014, 141, 124124.	1.2	5
4993	Size Quantization Effects on Interfacial Electron Transfer Dynamics in Ru(II)-Polypyridyl Complex Sensitized ZnO QDs. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28898-28905.	1.5	8
4994	Spontaneous emission of Bloch oscillation radiation under the competing influences of microcavity enhancement and inhomogeneous interface degradation. <i>Journal of Applied Physics</i> , 2014, 115, 054307.	1.1	1
4995	CO ( $\alpha_3$ ) quenching at a metal surface: Evidence of an electron transfer mediated mechanism. <i>Journal of Chemical Physics</i> , 2014, 141, 044712.	1.2	8
4996	Band gap engineering of TiO <sub>2</sub> through hydrogenation. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	39
4997	The effects of fabrication temperature on current-voltage characteristics and energy efficiencies of quantum dot sensitized ZnOH-GO hybrid solar cells. <i>Journal of Applied Physics</i> , 2014, 116, 173102.	1.1	0
4998	First-Principles Study on the Surface Energies of Rutile TiO <sub>2</sub> (110) vs (011)-2Å <sup>-1</sup> Surfaces. <i>Advanced Materials Research</i> , 0, 937, 113-117.	0.3	0
4999	Quantitative Analysis and Visualized Evidence for High Charge Separation Efficiency in a Solid-Liquid Bulk Heterojunction. <i>Advanced Energy Materials</i> , 2014, 4, 1301785.	10.2	88
5000	Structural, spectroscopic aspects, and electronic properties of (TiO <sub>2</sub> ) <sub>n</sub> clusters: A study based on the use of natural algorithms in association with quantum chemical methods. <i>Journal of Computational Chemistry</i> , 2014, 35, 51-61.	1.5	35
5001	Preparation of Nanoporous Ti/TiO <sub>2</sub> Layers Deposition by RF-magnetron Sputtering/Sol-Gel Combustion Procedure for Dye-sensitized Solar Cell. <i>Energy Procedia</i> , 2014, 56, 219-227.	1.8	0
5003	Titania nanobundle networks as dye-sensitized solar cell photoanodes. <i>Nanoscale</i> , 2014, 6, 3704-3711.	2.8	34
5004	Effect of TiO <sub>2</sub> microbead pore size on the performance of DSSCs with a cobalt based electrolyte. <i>Nanoscale</i> , 2014, 6, 13787-13794.	2.8	19
5005	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO <sub>2</sub> on Porous CuInS <sub>2</sub> Photocathodes Prepared by an Electrodeposition-Sulfurization Method. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11808-11812.	7.2	181
5006	Modeling time-coincident ultrafast electron transfer and solvation processes at molecule-semiconductor interfaces. <i>Journal of Chemical Physics</i> , 2014, 140, 234109.	1.2	5
5007	Simultaneous description of conductance and thermopower in single-molecule junctions from many-body ab initio calculations. <i>Physical Review B</i> , 2014, 90, .	1.1	5
5008	Photoelectrochemical and photosensing behaviors of hydrothermally grown ZnO nanorods. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	57
5009	The Virtue of Defects: Stable Bromine Production by Catalytic Oxidation of Hydrogen Bromide on Titanium Oxide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8628-8633.	7.2	38
5010	Electrolyte/photoanode engineered performance of TiO <sub>2</sub> based dye sensitised solar cells. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	8

#	ARTICLE	IF	CITATIONS
5011	Au <sub>2</sub> S <sub>3</sub> /CdS Nanorods by Cation Exchange: Mechanistic Insights into the Competition Between Cation Exchange and Metal Ion Reduction. <i>Small</i> , 2014, 10, 3895-3900.	5.2	16
5013	Pt-Ni Alloy Nanoparticles as Superior Counter Electrodes for Dye-Sensitized Solar Cells: Experimental and Theoretical Understanding. <i>Advanced Materials</i> , 2014, 26, 8101-8106.	11.1	149
5014	Bi <sub>2</sub> S <sub>3</sub> Liquid-Junction Semiconductor-Sensitized SnO <sub>2</sub> Solar Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, H1-H5.	1.3	53
5015	Photoactive Electrodes Incorporating Electrosprayed Bacterial Reaction Centers. <i>Advanced Functional Materials</i> , 2014, 24, 4789-4794.	7.8	32
5016	Facile and simple fabrication of an efficient nanoporous WO <sub>3</sub> photoanode for visible-light-driven water splitting. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20736-20743.	3.8	30
5017	Hybrid model of atmospheric pressure Ar/O <sub>2</sub> /TiCl <sub>4</sub> radio-frequency capacitive discharge for TiO <sub>2</sub> deposition. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	4
5018	Nanowires for Photovoltaics and Artificial Photosynthesis. <i>RSC Smart Materials</i> , 2014, , 277-311.	0.1	2
5019	Surface-enhanced Raman spectroscopy toward application in plasmonic photocatalysis on metal nanostructures. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 21, 54-80.	5.6	94
5020	Significant Reduction in NiO Band Gap Upon Formation of Li <sub>x</sub> Ni <sub>1-x</sub> O alloys: Applications To Solar Energy Conversion. <i>ChemSusChem</i> , 2014, 7, 195-201.	3.6	56
5021	Nickel-nitride-coated nickel foam as a counter electrode for dye-sensitized solar cells. <i>Surface and Coatings Technology</i> , 2014, 259, 560-569.	2.2	40
5022	Synthesis and characterization of pure and Li <sup>+</sup> activated Alq <sub>3</sub> complexes for green and blue organic light emitting diodes and display devices. <i>Luminescence</i> , 2014, 29, 433-439.	1.5	9
5024	Dye-sensitized solar cells based on porous conjugated polymer counter electrodes. <i>Thin Solid Films</i> , 2014, 573, 112-116.	0.8	19
5025	Highly Conductive CdS Inverse Opals for Photochemical Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 707-715.	7.8	34
5026	Optically Transparent FTO-Free Cathode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22343-22350.	4.0	18
5027	Fe(III) doped and grafted PbTiO <sub>3</sub> film photocathode with enhanced photoactivity for hydrogen production. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	17
5028	Structure and photochemistry of a bio-inspired model for photocatalytic H <sub>2</sub> O splitting: Improved calculations of the Sobolewski and Domcke's Chlorophyll-Imidazole-Benzoquinone model complex. <i>Molecular Physics</i> , 2014, 112, 863-867.	0.8	2
5029	Introduction and Techno-economic Background. <i>RSC Energy and Environment Series</i> , 2014, , 1-26.	0.2	0
5030	3C-SiC nanocrystals/TiO <sub>2</sub> nanotube heterostructures with enhanced photocatalytic performance. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	11



#	ARTICLE	IF	CITATIONS
5031	Multifunctional TiO <sub>2</sub> Microflowers with Nanopetals as Scattering Layer for Enhanced Quasi-Solid-State Dye-Sensitized Solar Cell Performance. ChemElectroChem, 2014, 1, 532-535.	1.7	16
5032	Preferential Orientation and Surface Oxidation Control in Reactively Sputter Deposited Nanocrystalline SnO <sub>2</sub> :Sb Films: Electrochemical and Optical Results. ECS Journal of Solid State Science and Technology, 2014, 3, N151-N153.	0.9	12
5033	Improved photocatalytic decolorization of methyl orange over Pd-doped Bi <sub>2</sub> O <sub>3</sub> . Environmental Progress and Sustainable Energy, 2014, 33, 1229-1234.	1.3	3
5034	ZnO and GaN Nanowire-Based Type II Heterostructures. , 2014, , 85-103.		2
5035	Structural defects induced by Fe-ion implantation in TiO <sub>2</sub> . Journal of Applied Physics, 2014, 115, .	1.1	9
5036	Progress of Studies on Fabrication of TiO <sub>2</sub> Nanotube Arrays on Ti or Ti Alloys by Anodization. Advanced Materials Research, 2014, 941-944, 441-444.	0.3	2
5038	Efficient photocatalytic H <sub>2</sub> production using visible-light irradiation and (CuAg)In <sub>2</sub> Zn <sub>2</sub> S <sub>2</sub> photocatalysts with tunable band gaps. International Journal of Energy Research, 2014, 38, 1513-1521.	1.4	14
5039	Enhancement of Activity and Durability through Cr Doping of TiO <sub>2</sub> Supports in Pt Electro-catalysts for Oxygen Reduction Reactions. ChemCatChem, 2014, 6, 3239-3245.	1.8	11
5040	Improving the performance of dye-sensitized solar cells by using the conversion luminescence of a phosphor. Journal of the Korean Physical Society, 2014, 65, 1682-1686.	0.3	3
5041	Evidence of Facilitated Electron Transfer on Hydrogenated Self-Doped TiO <sub>2</sub> Nanocrystals. ChemElectroChem, 2014, 1, 1415-1421.	1.7	12
5042	Ordered Carboxylates on TiO <sub>2</sub> (110) Formed at Aqueous Interfaces. Journal of Physical Chemistry Letters, 2014, 5, 4265-4269.	2.1	34
5043	Effects of Ba <sup>2+</sup> O codoping on the photocatalytic activities of Ta <sub>3</sub> N <sub>5</sub> photocatalyst: a DFT study. RSC Advances, 2014, 4, 55615-55621.	1.7	9
5044	Phase Stability and Defect Physics of a Ternary ZnSnN <sub>2</sub> Semiconductor: First Principles Insights. Advanced Materials, 2014, 26, 311-315.	11.1	81
5045	Rapid Sonosynthesis of Na-Doped Nano TiO <sub>2</sub> on Wool Fabric at Low Temperature: Introducing Self-Cleaning, Hydrophilicity, Antibacterial/Antifungal Properties with low Alkali Solubility, Yellowness and Cytotoxicity. Photochemistry and Photobiology, 2014, 90, 1224-1233.	1.3	50
5046	Enhanced photoelectrochemical response of CdSe quantum dot-sensitized p-type NiO photocathodes. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1868-1872.	0.8	22
5047	Conversion of Toluene and Water to Methylcyclohexane and Oxygen using Niobium-Doped Strontium Titanate Photoelectrodes. ChemSusChem, 2014, 7, 2690-2694.	3.6	8
5048	Mimicking Nature: A Novel Peptide-Based Bio-Inspired Approach for Solar Energy Conversion. ChemPhysChem, 2014, 15, 64-68.	1.0	32
5050	Electronic structure calculations of mercury mobilization from mineral phases and photocatalytic removal from water and the atmosphere. Science of the Total Environment, 2014, 493, 596-605.	3.9	5

#	ARTICLE	IF	CITATIONS
5051	Organic Dyes Incorporating the Dithieno[3,4-b:2',3'-d]benzo[1,2-c]furan Moiety for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 22612-22621.	4.0	30
5052	Cu <sub>2</sub> O-Decorated Mesoporous TiO <sub>2</sub> Beads as a Highly Efficient Photocatalyst for Hydrogen Production. ChemCatChem, 2014, 6, 293-300.	1.8	74
5053	Biological Construction of Single-Walled Carbon Nanotube Electron Transfer Pathways in Dye-Sensitized Solar Cells. ChemSusChem, 2014, 7, 2805-2810.	3.6	15
5054	On the redox origin of surface trapping in AlGaIn/GaN high electron mobility transistors. Journal of Applied Physics, 2014, 115, .	1.1	26
5055	Photoelectrochemical properties of texture-controlled nanostructured Fe <sub>2</sub> O <sub>3</sub> thin films prepared by AACVD. Physica Status Solidi - Rapid Research Letters, 2014, 8, 976-981.	1.2	26
5056	Silicon Nanowire Photocathodes for Light-Driven Electroenzymatic Synthesis. ChemSusChem, 2014, 7, 3007-3011.	3.6	26
5057	New Fe <sub>2</sub> TiO <sub>5</sub> -based nanoheterostructured mesoporous photoanodes with improved visible light photoresponses. Journal of Materials Chemistry A, 2014, 2, 6567-6577.	5.2	59
5058	Band structure engineering of anatase TiO <sub>2</sub> by metal-assisted P-O coupling. Journal of Chemical Physics, 2014, 140, 174705.	1.2	29
5059	First Principles Study of Morphology, Doping Level, and Water Solvation Effects on the Catalytic Mechanism of Nitrogen-Doped Graphene in the Oxygen Reduction Reaction. ChemCatChem, 2014, 6, 2662-2670.	1.8	40
5060	Mixed-Phase Manganese Dioxide and Functionalized Graphite Supported Platinum/Manganese Dioxide Catalyst for Light-Driven Photoelectrochemical Cell. Journal of the Electrochemical Society, 2014, 161, H619-H626.	1.3	2
5061	The Application of Nanostructure MoS <sub>2</sub> Materials in Energy Storage and Conversion. Lecture Notes in Nanoscale Science and Technology, 2014, , 237-268.	0.4	6
5062	Sol Gel Synthesized Nanosilica as Photoanode Material for Dye Sensitized Solar Cells (DSSCs) System. Applied Mechanics and Materials, 0, 625, 110-113.	0.2	1
5063	Effect of Anti-Reflective Layer in Dye-Sensitized Solar Cells. Applied Mechanics and Materials, 0, 705, 320-323.	0.2	3
5064	Evaluation of the band-gap of Ruddlesden-Popper tantalates. Computational Materials Science, 2014, 93, 160-163.	1.4	4
5065	AG NANOPARTICLES-MODIFIED ANATASE TiO <sub>2</sub> SINGLE CRYSTALS CUBES FOR IMPROVING PHOTOELECTRIC CONVERSION. Nano, 2014, 09, 1450012.	0.5	2
5066	Artificial photosynthesis by using chloroplasts from spinach adsorbed on a nanocrystalline TiO <sub>2</sub> electrode for photovoltaic conversion. Research on Chemical Intermediates, 2014, 40, 3257-3265.	1.3	15
5067	Effect of organic dye on the performance of dye-sensitized solar cell utilizing TiO <sub>2</sub> nanostructure films synthesized via CTAB-assisted liquid phase deposition technique. Russian Journal of Electrochemistry, 2014, 50, 1072-1076.	0.3	8
5068	Effect of Doping of Fe into TiO <sub>2</sub> Layer in Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /FTO System for High Performance of Water Splitting. Advances in Science and Technology, 2014, 93, 82-89.	0.2	3

#	ARTICLE	IF	CITATIONS
5069	Effect of Heat Treatment on CNT/TiO <sub>2</sub> Photoelectrode for Dye-Sensitized Solar Cells Application. Journal of Nano Research, 2014, 28, 151-162.	0.8	3
5070	Study of Constructions for the Photovoltaic System to Increase the Economic Efficiency of Energy Generation. , 2014, , .		4
5071	Microwave-Assisted Preparation of Nitrogen Doped Nano-TiO <sub>2</sub> and the Study on the Properties. Advanced Materials Research, 0, 924, 123-128.	0.3	0
5072	Enhanced Photoelectrochemical Response of Silicon Nanowire Arrays through Coating the Carbon Shell. Journal of the Electrochemical Society, 2014, 161, H240-H243.	1.3	7
5073	Influence of Temperature on the Electrochemical Characteristics of Ti-6Al-4V. Materials Science Forum, 2014, 811, 77-82.	0.3	0
5074	Computer modeling of components of photoreceptor systems. Russian Chemical Bulletin, 2014, 63, 1703-1709.	0.4	1
5075	Affection of Post-Nitrogen-Doping of ZnO Columnar Films Photo-Anode on Performance of Dye-Sensitized Solar Cells. Advanced Materials Research, 2014, 875-877, 1899-1903.	0.3	0
5076	Performance dependence of Si quantum dot-sensitized solar cells on counter electrode. Japanese Journal of Applied Physics, 2014, 53, 05FZ01.	0.8	4
5077	Evaluation of Annealing Effects on TiO <sub>2</sub> Nanorod Arrays for Dye-Sensitized Solar Cells by Equivalent Circuit Analysis. Key Engineering Materials, 0, 609-610, 152-158.	0.4	3
5078	Theoretical Modeling of Oxide-Photocatalysts for PEC Water Splitting. Nanostructure Science and Technology, 2014, , 113-134.	0.1	0
5079	Aluminum and copper plasmonics for enhancing internal quantum efficiency of core-shell and core-multishell nanowire photoelectrodes. , 2014, , .		1
5080	Preparation of Freestanding TiO <sub>2</sub> Nanotube Arrays via Controlling the Anodizing Voltage. Advanced Materials Research, 0, 915-916, 821-825.	0.3	0
5081	A tunable ZnO/electrolyte heterojunction for a self-powered photodetector. Physical Chemistry Chemical Physics, 2014, 16, 26697-26700.	1.3	32
5082	Theoretical Insight into Organic Dyes Incorporating Triphenylamine-Based Donors and Binary $\pi$ -Conjugated Bridges for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-9.	1.4	3
5083	Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg) <sub>0.15</sub> In <sub>0.3</sub> Zn <sub>1.4</sub> S <sub>2</sub> under visible light irradiation. Journal of Renewable and Sustainable Energy, 2014, 6, 033131.	0.8	14
5084	Effect of Mn Doping on Properties of CdS Quantum Dot-Sensitized Solar Cells. International Journal of Photoenergy, 2014, 2014, 1-6.	1.4	6
5085	Equilibrium and Kinetic Aspects in the Sensitization of Monolayer Transparent TiO <sub>2</sub> Thin Films with Porphyrin Dyes for DSSC Applications. International Journal of Photoenergy, 2014, 2014, 1-9.	1.4	14
5086	Electronic Transport Characterization of BiVO <sub>4</sub> Using AC Field Hall Technique. Materials Research Society Symposia Proceedings, 2014, 1633, 43-49.	0.1	0

#	ARTICLE	IF	CITATIONS
5087	Study on Photoelectric Properties of Dye-Sensitized Solar Cells Based on Thixotropy Electrolyte. Applied Mechanics and Materials, 0, 618, 19-23.	0.2	0
5088	Enhanced Light Harvesting and Electron Lifetime of Front Side-illuminated CdSe Quantum Dot-assembled TiO <sub>2</sub> Nanotube Arrays for Quantum Dot-sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2014, 598, 144-153.	0.4	2
5089	Enhancing Performance of Dye-Sensitized Solar Cell Utilizing by Phosphor Layer (YAG:Ce). Molecular Crystals and Liquid Crystals, 2014, 602, 88-95.	0.4	1
5090	Enhancing Photoelectrical Performance of Dye-Sensitized Solar Cell Using Phosphor Photoelectrode. Molecular Crystals and Liquid Crystals, 2014, 602, 96-103.	0.4	0
5091	Open-circuit voltage improvement in tantalum-doped TiO <sub>2</sub> nanocrystals. Physical Chemistry Chemical Physics, 2014, 16, 25679-25683.	1.3	19
5092	Modification of juglon dye as a sensitizer in dye-sensitized solar cells. IET Optoelectronics, 2014, 8, 270-276.	1.8	20
5093	Low-temperature sintering for plastic dye-sensitized solar cells using conventional TiO <sub>2</sub> paste containing organic binders. Applied Physics Letters, 2014, 104, .	1.5	6
5094	Optical properties of TiO <sub>2</sub> nanotube arrays fabricated by the electrochemical anodization method. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2014, 5, 015004.	0.7	12
5095	Tailor-made ZnO@SnO <sub>2</sub> networks for high efficiency photovoltaic devices. , 2014, , .		1
5096	Electrochemical impedance analysis on the additional layers for the enhancement on the performance of dye-sensitized solar cell. Thin Solid Films, 2014, 554, 122-126.	0.8	7
5097	Hydrous TiO <sub>2</sub> spheres: An excellent platform for the rational design of mesoporous anatase spheres for photoelectrochemical applications. Catalysis Today, 2014, 230, 197-204.	2.2	34
5098	Transparent front contact optimization in dye sensitized solar cells: use of cadmium stannate and titanium oxide by sputtering. Thin Solid Films, 2014, 555, 18-20.	0.8	9
5099	Graphene-based cathodes for liquid-junction dye sensitized solar cells: Electrocatalytic and mass transport effects. Electrochimica Acta, 2014, 128, 349-359.	2.6	88
5100	Enhancement of visible light photocatalytic activities via porous structure of g-C <sub>3</sub> N <sub>4</sub> . Applied Catalysis B: Environmental, 2014, 147, 229-235.	10.8	285
5101	Photocatalysts with internal electric fields. Nanoscale, 2014, 6, 24-42.	2.8	654
5102	Efficiency enhancement by mixed cation effect in dye-sensitized solar cells with a PVdF based gel polymer electrolyte. International Journal of Hydrogen Energy, 2014, 39, 2929-2935.	3.8	83
5103	Full-ionic liquid gel electrolytes: Enhanced photovoltaic performances in dye-sensitized solar cells. Journal of Power Sources, 2014, 264, 83-91.	4.0	36
5104	Size-tunable TiO <sub>2</sub> nanocrystals from titanium (IV) bis (ammonium lactato) dihydroxide and towards enhance the performance of dye-sensitized solar cells. Electrochimica Acta, 2014, 117, 268-275.	2.6	13

#	ARTICLE	IF	CITATIONS
5105	Low-cost CoPt alloy counter electrodes for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 260, 180-185.	4.0	63
5106	Photoemission studies of water dissociation on rutile TiO <sub>2</sub> (110): Aspects on experimental procedures and the influence of steps. <i>Applied Surface Science</i> , 2014, 303, 245-249.	3.1	12
5107	Imidazolium Functionalized Bis-2,2,6,6-Tetramethyl-piperidine-1-oxyl (TEMPO) Bi-redox Couples for Highly Efficient Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 117, 48-54.	2.6	18
5108	Visible light driven nanocrystal anatase TiO <sub>2</sub> doped by Ce from sol-gel method and its photoelectrochemical water splitting properties. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13448-13453.	3.8	22
5109	Photoemission study of the Poly(3-hexylthiophene)/TiO <sub>2</sub> interface and the role of 4-Mercaptopyridine. <i>Thin Solid Films</i> , 2014, 560, 39-43.	0.8	6
5110	Constructing hierarchical fastener-like spheres from anatase TiO <sub>2</sub> nanosheets with exposed {001} facets for high-performance dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 262, 86-92.	4.0	31
5111	Crystal growth and design of a facile synthesized uniform single crystalline football-like anatase TiO <sub>2</sub> microspheres with exposed {001} facets. <i>Applied Surface Science</i> , 2014, 311, 147-157.	3.1	12
5112	Surface-anchored CdS@Ag 3 PO 4 nanocomposite with efficient visible light photocatalytic activity. <i>Materials Letters</i> , 2014, 114, 152-155.	1.3	37
5113	Synthesis of monodisperse colloidal TiO <sub>2</sub> microspheres and performance of their dye-sensitized solar cells. <i>Applied Surface Science</i> , 2014, 308, 301-305.	3.1	11
5114	Preparation and characterization of Cu-doped TiO <sub>2</sub> materials for electrochemical, photoelectrochemical, and photocatalytic applications. <i>Applied Surface Science</i> , 2014, 293, 229-247.	3.1	139
5115	Realizing high visible-light-induced carriers mobility in TiO <sub>2</sub> -based photoanodes. <i>Journal of Power Sources</i> , 2014, 251, 195-201.	4.0	3
5116	Benefits of dispersion solvents with more OH groups in electro spray preparation of TiO <sub>2</sub> photoelectrode for the improvement of DSSC performance. <i>Organic Electronics</i> , 2014, 15, 969-976.	1.4	15
5117	Fabrication of the protonated pentatitanate nanobelts sensitized with CuInS <sub>2</sub> quantum dots for photovoltaic applications. <i>Chemical Engineering Journal</i> , 2014, 244, 335-342.	6.6	24
5118	Laser spectroscopic assessment of a phthalocyanine-sensitized solar cell as a function of dye loading. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 155-162.	3.0	15
5119	Enhancing photocatalytic oxygen evolution activity of cobalt-based spinel nanoparticles. <i>Catalysis Today</i> , 2014, 225, 171-176.	2.2	24
5120	Speed up dye-sensitized solar cell fabrication by rapid dye solution droplets bombardment. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 81-86.	3.0	14
5121	Monitoring excited state dynamics in cis-[Ru(bpy) <sub>2</sub> (py) <sub>2</sub> ] <sup>2+</sup> by ultrafast synchrotron techniques. <i>Catalysis Today</i> , 2014, 229, 34-45.	2.2	15
5122	A simple modification of near-infrared photon-to-electron response with fluorescence resonance energy transfer for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 264, 254-261.	4.0	31

#	ARTICLE	IF	CITATIONS
5123	In situ prepared Cu <sub>2</sub> ZnSnS <sub>4</sub> ultrathin film counter electrode in dye-sensitized solar cells. <i>Materials Letters</i> , 2014, 121, 241-243.	1.3	19
5124	Optimizing scattering layer for efficient dye sensitized solar cells based on TiO <sub>2</sub> nanofiber. <i>Polyhedron</i> , 2014, 82, 7-11.	1.0	9
5125	A computational approach to the electronic, optical and acid-base properties of Ru(II) dyes for photoelectrochemical solar cells applications. <i>Polyhedron</i> , 2014, 82, 88-103.	1.0	3
5126	Influence of process parameters on synthesis of hierarchical porous titania photoanode prepared by controlled phase separation for dye sensitized solar cell. <i>Ceramics International</i> , 2014, 40, 9311-9318.	2.3	2
5127	5-Phenyl-iminostilbene based organic dyes for efficient dye-sensitized solar cells. <i>Tetrahedron</i> , 2014, 70, 6241-6248.	1.0	1
5128	Greatly enhanced photocatalytic activity of TiO <sub>2</sub> -xNx by a simple surface modification of Fe(III) cocatalyst. <i>Journal of Molecular Catalysis A</i> , 2014, 391, 92-98.	4.8	34
5129	Growth of anatase and rutile TiO <sub>2</sub> @Sb:SnO <sub>2</sub> heterostructures and their application in photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17508-17516.	3.8	13
5130	Synthesis and characterization of N-doped TiO <sub>2</sub> photocatalysts with tunable response to solar radiation. <i>Applied Surface Science</i> , 2014, 305, 281-291.	3.1	48
5131	Nanostructure Cu-Zn mixed-oxide supported photocatalyst fabricated by impregnation method for the photocatalytic degradation of C.I. Reactive Orange 16 (V3R) in water. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 124, 629-631.	2.0	16
5132	Theoretical design of thiazolothiazole-based organic dyes with different electron donors for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 232-238.	2.0	61
5133	Screen-printed Pt counter electrodes exhibiting high catalytic activity. <i>Chinese Journal of Catalysis</i> , 2014, 35, 219-226.	6.9	8
5134	Design and development of cyclometalated ruthenium complexes containing thiophenyl-pyridine ligand for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2014, 100, 57-65.	2.0	37
5135	A simple approach of enhancing photovoltaic performances of quasi-solid-state dye-sensitized solar cells by integrating conducting polyaniline into electrical insulating gel electrolyte. <i>Journal of Power Sources</i> , 2014, 245, 468-474.	4.0	37
5136	Dye-sensitized solar cells with PVA-KI-EC-PC gel electrolytes. <i>Optical and Quantum Electronics</i> , 2014, 46, 133-141.	1.5	37
5137	High Efficiency Solid-State Dye-Sensitized Solar Cells Assembled with Hierarchical Anatase Pine Tree-like TiO <sub>2</sub> Nanotubes. <i>Advanced Functional Materials</i> , 2014, 24, 379-386.	7.8	102
5138	RF sputtered tri-functional antireflective TiO <sub>2</sub> (arc-TiO <sub>2</sub> ) compact layer for performance enhancement in dye-sensitized solar cell. <i>Ceramics International</i> , 2014, 40, 967-974.	2.3	19
5139	Photocatalytic Hydrogen Production with Copper Photosensitizer-Titanium Dioxide Composites. <i>ChemCatChem</i> , 2014, 6, 82-86.	1.8	53
5140	Hybrid Semiconductor-Metal Nanoparticles: From Architecture to Function. <i>Chemistry of Materials</i> , 2014, 26, 97-110.	3.2	330

#	ARTICLE	IF	CITATIONS
5141	Preparation of nanostructure mixed copper-zinc oxide via co-precipitation rout for dye-sensitized solar cells: The influence of blocking layer and Co(II)/Co(III) complex redox shuttle. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1462-1467.	2.9	17
5142	Performance enhancement of natural pigments on a high light transmission ZrO <sub>2</sub> nanoparticle layer in a water-based dye-sensitized solar cell. <i>International Journal of Energy Research</i> , 2014, 38, 436-443.	2.2	16
5143	Hierarchical Nanowire Arrays Based on ZnO Core Layered Double Hydroxide Shell for Largely Enhanced Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2014, 24, 580-586.	7.8	252
5144	Environmental friendly Fe substitutive of Ru in water oxidation catalysis. <i>Catalysis Communications</i> , 2014, 44, 2-5.	1.6	21
5145	Surface-area-tuned, quantum-dot-sensitized heterostructured nanoarchitectures for highly efficient photoelectrodes. <i>Nano Research</i> , 2014, 7, 144-153.	5.8	25
5146	Photoelectrochemical oxidation of a turn-on fluorescent probe mediated by a surface MnII catalyst covalently attached to TiO <sub>2</sub> nanoparticles. <i>Journal of Catalysis</i> , 2014, 310, 37-44.	3.1	12
5147	Photoelectrochemical water oxidation at electrophoretically deposited WO <sub>3</sub> films as a function of crystal structure and morphology. <i>Electrochimica Acta</i> , 2014, 140, 320-331.	2.6	35
5148	Theoretical investigation and design of high-efficiency dithiafulvenyl-based sensitizers for dye-sensitized solar cells: the impacts of elongating I <sup>-</sup> -spacers and rigidifying dithiophene. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9458.	1.3	40
5149	High performance of Pt-free dye-sensitized solar cells based on two-step electropolymerized polyaniline counter electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3452-3460.	5.2	80
5150	Highly connected hierarchical textured TiO <sub>2</sub> spheres as photoanodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8902-8909.	5.2	57
5151	Quantum dots as mediators in gas sensing: A case study of CdS sensitized WO <sub>3</sub> sensing composites. <i>Applied Surface Science</i> , 2014, 290, 295-300.	3.1	5
5152	Radial-arrayed rotary electrification for high performance triboelectric generator. <i>Nature Communications</i> , 2014, 5, 3426.	5.8	734
5153	Hydrothermal synthesis of oriented ZnO nanorod/nanosheets hierarchical architecture on zinc foil as flexible photoanodes for dye-sensitized solar cells. <i>Ceramics International</i> , 2014, 40, 11663-11670.	2.3	37
5154	Carbon Nanomaterials: A Review. , 2014, , 709-769.		40
5155	Cyanoviny substituted benzimidazole based (D <sup>+</sup> -I <sup>-</sup> -A) organic dyes for fabrication of dye sensitized solar cells. <i>Dyes and Pigments</i> , 2014, 105, 223-231.	2.0	45
5156	Axle-sleeve Structured MWCNTs/Polyaniline Composite Film as Cost-effective Counter-Electrodes for High Efficient Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 121, 285-293.	2.6	33
5157	Characterization of Ta/Ti Thin Films by using a Scanning Droplet Cell in Combination with AC Linear Sweep Voltammetry. <i>ChemElectroChem</i> , 2014, 1, 903-908.	1.7	7
5158	The size-controllable, one-step synthesis and characterization of gold nanoparticles protected by synthetic humic substances. <i>Materials Chemistry and Physics</i> , 2014, 144, 168-178.	2.0	30

#	ARTICLE	IF	CITATIONS
5159	Simple Syntheses of CdSe Quantum Dots. <i>Journal of Chemical Education</i> , 2014, 91, 274-279.	1.1	63
5161	Nanostructured SrTiO <sub>3</sub> thin films sensitized by Cu <sub>2</sub> O for photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4189-4197.	3.8	40
5162	Transparent graphene-based counter-electrodes for iodide/triiodide mediated dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2028.	5.2	30
5163	Internal photoemission from plasmonic nanoparticles: comparison between surface and volume photoelectric effects. <i>Nanoscale</i> , 2014, 6, 4716.	2.8	52
5164	Effect of TiO <sub>x</sub> compact layer with varied components on the performance of dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2014, 594, 211-216.	2.8	9
5165	Blue/green/red colour emitting up-conversion phosphors coupled C-TiO <sub>2</sub> composites with UV, visible and NIR responsive photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 257-264.	10.8	55
5166	Facet Cutting and Hydrogenation of In <sub>2</sub> O <sub>3</sub> Nanowires for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4081-4088.	4.0	58
5167	Physicochemical Investigation of the Panchromatic Effect on $\hat{I}^2$ -Substituted Zn <sup>II</sup> Porphyrinates for DSSCs: The Role of the $\hat{I}^{\epsilon}$ Bridge between a Dithienylethylene Unit and the Porphyrinic Ring. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7307-7320.	1.5	27
5168	DFT study of the effect of different metals on structures and electronic spectra of some organic-metal compounds as sensitizing dyes. <i>Optics and Spectroscopy (English Translation of Optika i Tj ETQq0 00rgBT /Overlock 10</i>		
5169	Efficient Bio-Nano Hybrid Solar Cells via Purple Membrane as Sensitizer. <i>BioNanoScience</i> , 2014, 4, 71-77.	1.5	16
5170	A versatile cooperative template-directed coating method to synthesize hollow and yolk-shell mesoporous zirconium titanium oxide nanospheres as catalytic reactors. <i>Nano Research</i> , 2014, 7, 246-262.	5.8	71
5171	Photoelectrochemical property of the BiOBr-BiOI/ZnO heterostructures with tunable bandgap. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1743-1750.	1.2	29
5172	Nanocrystalline copper selenide thin films by chemical spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1251-1257.	1.1	26
5173	Preparation and characterization of transparent fluorocarbon emulsion doped with antimony tin oxide and TiO <sub>2</sub> as thermal-insulating and self-cleaning coating. <i>Journal of Coatings Technology Research</i> , 2014, 11, 567-574.	1.2	6
5174	Room temperature synthesis of rutile titania nanoparticles: a thermodynamic perspective. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	7
5175	Dependence of the electrocatalytic performance of platinumized counter electrodes on the redox mediator employed in dye-sensitized solar cells. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 427-436.	1.5	1
5176	Performance of dye-sensitized solar cells based on various sensitizers applied on TiO <sub>2</sub> -Nb <sub>2</sub> O <sub>5</sub> core/shell photoanode structure. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1601-1609.	1.2	7
5177	Theoretical study on the adsorption mechanism of iodine molecule on platinum surface in dye-sensitized solar cells. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	13



#	ARTICLE	IF	CITATIONS
5178	Direct electrochemical sensing of $\beta$ -phenylenediamine based on perovskite-type nanomaterial LaNiTiO <sub>3</sub> •Fe <sub>3</sub> O <sub>4</sub> . Journal of Solid State Electrochemistry, 2014, 18, 1973-1979.	1.2	3
5179	Photoresistance and photo induced current hysteresis in bulk heterojunction systems P3HT•PCBM•polymethine dye. Organic Electronics, 2014, 15, 1105-1112.	1.4	21
5180	Quasi-solid-state dye-sensitized solar cells from hydrophobic poly(hydroxyethyl) Tj ETQqO O O rgBT /Overlock 10 Tf 50 662 Td (methacry	2.0	18
5181	Enhanced photovoltaic performances of quasi-solid-state dye-sensitized solar cells using a novel conducting gel electrolyte. Journal of Power Sources, 2014, 248, 923-930.	4.0	64
5182	Employment of ionic liquid-imbibed polymer gel electrolyte for efficient quasi-solid-state dye-sensitized solar cells. Journal of Power Sources, 2014, 248, 816-821.	4.0	44
5183	Titania nanofiber photoanodes for dye-sensitized solar cells. Catalysis Today, 2014, 230, 234-239.	2.2	9
5184	Carbon nanomaterial based counter electrodes for dye sensitized solar cells. Solar Energy, 2014, 102, 152-161.	2.9	39
5185	N-Alkyl- and N-aryl-dithieno[3,2-b:2'3'-d]pyrrole-containing organic dyes for efficient dye-sensitized solar cells. Tetrahedron, 2014, 70, 2141-2150.	1.0	16
5186	Fabrication of Ni-doped TiO <sub>2</sub> thin film photoelectrode for solar cells. Solar Energy, 2014, 106, 159-165.	2.9	27
5187	Copper antimony sulfide (CuSbS <sub>2</sub> ) mesocrystals: A potential counter electrode material for dye-sensitized solar cells. Materials Letters, 2014, 124, 227-230.	1.3	41
5188	A structural study of 1-phenyl-1,2,3,4-tetrahydroquinoline-based dyes for solid-state DSSC applications. Dyes and Pigments, 2014, 104, 211-219.	2.0	18
5189	Graphene Nanoplatelets Doped with N at its Edges as Metal-Free Cathodes for Organic Dye-Sensitized Solar Cells. Advanced Materials, 2014, 26, 3055-3062.	11.1	140
5190	The Role of Ligand-Field States in the Ultrafast Photophysical Cycle of the Prototypical Iron(II) Spin-Crossover Compound [Fe(ptz) <sub>6</sub> ](BF <sub>4</sub> ) <sub>2</sub> . Angewandte Chemie - International Edition, 2014, 53, 3863-3867.	7.2	67
5191	Sol-Gel Titanium Dioxide Blocking Layers for Dye-Sensitized Solar Cells: Electrochemical Characterization. ChemPhysChem, 2014, 15, 1056-1061.	1.0	38
5192	Preparation of graphene film decorated TiO <sub>2</sub> nano-tube array photoelectrode and its enhanced visible light photocatalytic mechanism. Carbon, 2014, 66, 450-458.	5.4	120
5193	TiO <sub>2</sub> -SnO <sub>2</sub> heterostructures applied to dye photodegradation: The relationship between variables of synthesis and photocatalytic performance. Applied Surface Science, 2014, 298, 182-191.	3.1	59
5194	Highly efficient light-induced hydrogen evolution from a stable Pt/CdS NPs-co-loaded hierarchically porous zeolite beta. Applied Catalysis B: Environmental, 2014, 152-153, 271-279.	10.8	24
5195	Stabilizing effect in nano-titania functionalized CdS photoanode for sustained hydrogen generation. International Journal of Hydrogen Energy, 2014, 39, 4170-4180.	3.8	30

#	ARTICLE	IF	CITATIONS
5196	Molecular Engineering of Push-Pull Porphyrin Dyes for Highly Efficient Dye-Sensitized Solar Cells: The Role of Benzene Spacers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2973-2977.	7.2	458
5197	Dye-Sensitized Solar Cells with Reduced Graphene Oxide as the Counter Electrode Prepared by a Green Photothermal Reduction Process. <i>ChemPhysChem</i> , 2014, 15, 1175-1181.	1.0	58
5198	Analysis of Electron Transfer Properties of ZnO and TiO <sub>2</sub> Photoanodes for Dye-Sensitized Solar Cells. <i>ACS Nano</i> , 2014, 8, 2261-2268.	7.3	326
5199	Time-Dependent Density Functional Theory Modeling of Spin-Orbit Coupling in Ruthenium and Osmium Solar Cell Sensitizers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17067-17078.	1.5	51
5200	The master factors influencing the efficiency of a configured organic sensitizers in dye-sensitized solar cell via theoretically characterization: Design and verification. <i>Dyes and Pigments</i> , 2014, 105, 192-201.	2.0	21
5201	Theoretical investigation of new thiazolothiazole-based D-π-A organic dyes for efficient dye-sensitized solar cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 124, 646-654.	2.0	79
5202	Transfer and assembly of large area TiO <sub>2</sub> nanotube arrays onto conductive glass for dye sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 247, 807-812.	4.0	59
5203	Nitrogen-Doped Graphene Oxide Quantum Dots as Photocatalysts for Overall Water Splitting under Visible Light Illumination. <i>Advanced Materials</i> , 2014, 26, 3297-3303.	11.1	749
5205	Hierarchically Ordered Tubular Titanium Dioxide Electrodes: Preparation, Electrochemical Characterization, and Application as a Bifunctional Catalyst. <i>ChemElectroChem</i> , 2014, 1, 590-600.	1.7	9
5206	Highly photoactive Ti-doped Fe <sub>2</sub> O <sub>3</sub> nanorod arrays photoanode prepared by a hydrothermal method for photoelectrochemical water splitting. <i>Electrochimica Acta</i> , 2014, 129, 358-363.	2.6	137
5207	Synthesis of double branched organic dyes employing indole and phenoxazine as donors for efficient DSSCs. <i>Tetrahedron</i> , 2014, 70, 6296-6302.	1.0	33
5208	Covalent O-H Bonds as Electron Traps in Proton-Rich Rutile TiO <sub>2</sub> Nanoparticles. <i>Nano Letters</i> , 2014, 14, 1785-1789.	4.5	27
5209	Aqueous Solution Route to Zinc Telluride Films for Application to CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5852-5857.	7.2	91
5210	Multifunctional graphene incorporated conducting gel electrolytes in enhancing photovoltaic performances of quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 260, 225-232.	4.0	56
5211	Molecular-Scale Transition Metal Oxide Nanocluster Surface-Modified Titanium Dioxide as Solar-Activated Environmental Catalysts. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12077-12086.	1.5	80
5212	Design of high-performance chlorine type dyes for dye-sensitized solar cells. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 222-232.	1.0	12
5213	Efficient quasi-solid-state dye-sensitized solar cells employing polyaniline and polypyrrole incorporated microporous conducting gel electrolytes. <i>Journal of Power Sources</i> , 2014, 254, 98-105.	4.0	59
5214	Highly Photo-Responsive LaTiO <sub>2</sub> N Photoanodes by Improvement of Charge Carrier Transport among Film Particles. <i>Advanced Functional Materials</i> , 2014, 24, 3535-3542.	7.8	166

#	ARTICLE	IF	CITATIONS
5215	Photoconversion of carbon dioxide in zinc-copper-gallium layered double hydroxides: The kinetics to hydrogen carbonate and further to CO/methanol. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 561-569.	10.8	58
5216	The design, synthesis, and characterization of D-π-A-π-A type organic dyes as sensitizers for dye-sensitized solar cells (DSSCs). <i>Tetrahedron Letters</i> , 2014, 55, 3244-3248.	0.7	14
5217	Organic dyes containing indolo[2,3-b]quinoxaline as a donor: synthesis, optical and photovoltaic properties. <i>Tetrahedron</i> , 2014, 70, 6318-6327.	1.0	40
5218	CuO/Pd composite photocathodes for photoelectrochemical hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7686-7696.	3.8	110
5219	Evaluating the sensitizing effect on the photocatalytic decoloration of dyes using anatase-TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 250-257.	10.8	71
5220	Tandem structured quantum dot/rod sensitized solar cell based on solvothermal synthesized CdSe quantum dots and rods. <i>Journal of Power Sources</i> , 2014, 256, 102-109.	4.0	22
5221	Electrolytes for quasi solid-state dye-sensitized solar cells based on block copolymers. <i>Journal of Polymer Science Part A</i> , 2014, 52, 719-727.	2.5	24
5222	Effect of solar simulated N-doped TiO <sub>2</sub> photocatalysis on the inactivation and antibiotic resistance of an E. coli strain in biologically treated urban wastewater. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 369-378.	10.8	176
5223	Graphene-based polyaniline nanocomposites: preparation, properties and applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4491-4509.	5.2	225
5224	On the challenge of developing advanced technologies for electrochemical energy storage and conversion. <i>Materials Today</i> , 2014, 17, 110-121.	8.3	501
5225	Titanium Oxide Nanosheets: Graphene Analogues with Versatile Functionalities. <i>Chemical Reviews</i> , 2014, 114, 9455-9486.	23.0	557
5226	Improved power conversion efficiency of dye-sensitized solar cells using side chain liquid crystal polymer embedded in polymer electrolytes. <i>Materials Chemistry and Physics</i> , 2014, 143, 904-907.	2.0	11
5227	Transmission enhanced photoanodes for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 125, 646-651.	2.6	52
5228	Bio-Inspired Nanotechnology. , 2014, , .		13
5229	Significant performance enhancement of ZnO photoanodes from Ni(OH) <sub>2</sub> electrocatalyst nanosheets overcoating. <i>Nano Energy</i> , 2014, 6, 10-18.	8.2	76
5230	One-Dimensional Nanomaterials for Energy Applications. , 2014, , 75-120.		6
5231	Nanostructured semiconductor composites for solar cells. , 2014, , 267-320.		3
5232	Quantum-Confined ZnO Nanoshell Photoanodes for Mesoscopic Solar Cells. <i>Nano Letters</i> , 2014, 14, 1190-1195.	4.5	42

#	ARTICLE	IF	CITATIONS
5233	Plasmon-enhanced quasi-solid-state dye-sensitized solar cells with metal@Dendron nanoparticles. <i>Polymer Bulletin</i> , 2014, 71, 2053-2065.	1.7	0
5234	Conducting polymer/in-situ generated platinum nanoparticle nanocomposite electrodes for low-cost dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 116, 518-523.	2.6	20
5235	Photodegradation of Orange II by ZnO and TiO <sub>2</sub> powders and nanowire ZnO and ZnO/TiO <sub>2</sub> thin films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 460, 408-413.	2.3	37
5236	Dye-sensitized solar cells based on nanoparticle-decorated ZnO/SnO <sub>2</sub> core/shell nanoneedle arrays. <i>Applied Surface Science</i> , 2014, 292, 111-116.	3.1	28
5237	Engineering a Robust Photovoltaic Device with Quantum Dots and Bacteriorhodopsin. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16710-16717.	1.5	47
5238	A dye-sensitized solar cell based on platinum nanotube counter electrode with efficiency of 9.05%. <i>Journal of Power Sources</i> , 2014, 257, 84-89.	4.0	74
5239	Novel organic sensitizer based on directly linked oligothiophenes to donor nitrogen atom for efficient dye-sensitized solar cells. <i>Synthetic Metals</i> , 2014, 193, 102-109.	2.1	4
5240	Designing Efficient Oxygen Scavenging Coating Formulations for Food Packaging Applications. <i>Packaging Technology and Science</i> , 2014, 27, 609-623.	1.3	16
5241	Decoration of the TiO <sub>2</sub> nanotube arrays with copper suboxide by AC treatment. <i>Electrochimica Acta</i> , 2014, 125, 516-523.	2.6	10
5242	Raman spectroscopic study of dye adsorption on TiO <sub>2</sub> electrodes of dye-sensitized solar cells. <i>Vibrational Spectroscopy</i> , 2014, 72, 66-71.	1.2	6
5243	Controlling photoinduced electron transfer from PbS@CdS core@shell quantum dots to metal oxide nanostructured thin films. <i>Nanoscale</i> , 2014, 6, 7004-7011.	2.8	81
5244	Characterization of two new (A <sup>+</sup> ) <sub>2</sub> A type dyes with different central D unit and their application for dye sensitized solar cells. <i>Organic Electronics</i> , 2014, 15, 1780-1790.	1.4	13
5245	Controlling Ground and Excited State Properties through Ligand Changes in Ruthenium Polypyridyl Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 5637-5646.	1.9	53
5246	TiO <sub>2</sub> Nanoparticles as Functional Building Blocks. <i>Chemical Reviews</i> , 2014, 114, 9283-9318.	23.0	410
5247	Tuning the Electronic Nature of Monoalkynyl-Phenyl-Substituted Perylene Bisimides: Synthesis, Structure, and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 5776-5786.	1.7	31
5248	Synergistic Catalytic Effect of MoS <sub>2</sub> Nanoparticles Supported on Gold Nanoparticle Films for a Highly Efficient Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2014, 6, 1877-1881.	1.8	46
5249	SiO <sub>2</sub> /TiO <sub>2</sub> Hollow Nanoparticles Decorated with Ag Nanoparticles: Enhanced Visible Light Absorption and Improved Light Scattering in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2014, 20, 4439-4446.	1.7	43
5250	Novel D-A Organic Dyes with Thieno[3,2-b]thiophene-3,4-ethylenedioxythiophene Unit as a Bridge for Highly Efficient Dye-Sensitized Solar Cells with Long-Term Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4102-4108.	4.0	48

#	ARTICLE	IF	CITATIONS
5251	Nitridation and Layered Assembly of Hollow TiO <sub>2</sub> Shells for Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2014, 24, 848-856.	7.8	100
5252	Solid-State Biophotovoltaic Cells Containing Photosystem I. <i>Advanced Materials</i> , 2014, 26, 4863-4869.	11.1	83
5253	Toward Higher Photovoltage: Effect of Blocking Layer on Cobalt Bipyridine Pyrazole Complexes as Redox Shuttle for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16799-16805.	1.5	35
5254	Influence of processing parameters on chemically grown ZnO films with low cost Eosin-Y dye towards efficient dye sensitized solar cell. <i>Solar Energy</i> , 2014, 105, 445-454.	2.9	38
5255	Triton X-100 as an effective surfactant for the isolation and purification of photosystem I from <i>Arthrospira platensis</i> . <i>Photosynthesis Research</i> , 2014, 120, 311-321.	1.6	8
5256	Performance of metalloporphyrin malonic acids as dye sensitizers for use in dye-sensitized solar cells assessed by density functional theory. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 119-129.	1.9	3
5257	Sterically Hindered Phthalocyanines for Dye-Sensitized Solar Cells: Influence of the Distance between the Aromatic Core and the Anchoring Group. <i>ChemPhysChem</i> , 2014, 15, 1033-1036.	1.0	49
5258	First principle investigations to enhance the charge transfer properties by bridge elongation. <i>Journal of Theoretical and Computational Chemistry</i> , 2014, 13, 1450013.	1.8	14
5259	Surface Engineering of ZnO Nanostructures for Semiconductor-Sensitized Solar Cells. <i>Advanced Materials</i> , 2014, 26, 5337-5367.	11.1	149
5260	Insight into the liquid state of organo-lead halide perovskites and their new roles in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10355.	5.2	8
5261	Growth of thermally evaporated SnO <sub>2</sub> nanostructures for optical and humidity sensing application. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 369-377.	4.0	31
5262	25th Anniversary Article: Semiconductor Nanowires – Synthesis, Characterization, and Applications. <i>Advanced Materials</i> , 2014, 26, 2137-2184.	11.1	759
5263	TiO <sub>2</sub> doped with different ratios of graphene and optimized application in CdS/CdSe quantum dot-sensitized solar cells. <i>Materials Letters</i> , 2014, 124, 161-164.	1.3	19
5264	Ordered mesoporous carbon-decorated reduced graphene oxide as efficient counter electrode for dye-sensitized solar cells. <i>Carbon</i> , 2014, 77, 18-24.	5.4	25
5265	Catalytic properties of titania nanotube prepared by simple refluxing method. <i>Materials Letters</i> , 2014, 116, 160-163.	1.3	7
5266	Enhanced photovoltaic performance of cross-linked ruthenium dye with functional cross-linkers for dye-sensitized solar cell. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 1109-1117.	4.4	5
5267	Graphene synthesis and application for solar cells. <i>Journal of Materials Research</i> , 2014, 29, 299-319.	1.2	77
5268	Well-Dispersed CoS Nanoparticles on a Functionalized Graphene Nanosheet Surface: A Counter Electrode of Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2014, 20, 474-482.	1.7	100

#	ARTICLE	IF	CITATIONS
5269	A Ru(II) molecular antenna bearing a novel bipyridine-acrylonitrile ligand: Synthesis and application in dye solar cells. <i>Polyhedron</i> , 2014, 82, 12-18.	1.0	7
5270	A comparison of the electronic and photovoltaic properties of novel twin-anchoring organic dyes containing varying lengths of $\pi$ -bridges in dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2014, 102, 285-292.	2.0	21
5271	Light harvesting over a wide range of wavelength using natural dyes of gardenia and cochineal for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 868-873.	2.0	47
5272	Strong Metal-Support Interactions Enhance the Activity and Durability of Platinum Supported on Tantalum-Modified Titanium Dioxide Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 1516-1525.	5.5	158
5273	Multistack Integration of Three-Dimensional Hyperbranched Anatase Titania Architectures for High-Efficiency Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 6437-6445.	6.6	224
5274	Molecular design of organic dyes with diketopyrrolopyrrole for dye-sensitized solar cell: A theoretical approach. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 560-567.	1.0	16
5275	Near Infrared Organic Semiconducting Materials for Bulk Heterojunction and Dye-Sensitized Solar Cells. <i>Chemical Record</i> , 2014, 14, 419-481.	2.9	20
5276	A tetrahydropyrene-based organic dye for solar cell application. <i>RSC Advances</i> , 2014, 4, 22181.	1.7	4
5277	Electron Paramagnetic Resonance Investigation of Charge Transfer in $\text{TiO}_2(\text{B})/\text{Anatase}$ and $\text{TiO}_2(\text{B})/\text{Anatase}$ Mixed-Phase Nanowires: The Relative Valence and Conduction Band Edges in the Two Phases. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2877-2884.	1.5	38
5278	Carbazole based A-D-A dyes with double electron acceptor for dye-sensitized solar cell. <i>Organic Electronics</i> , 2014, 15, 266-275.	1.4	65
5279	Manipulating solar absorption and electron transport properties of rutile $\text{TiO}_2$ photocatalysts via highly n-type F-doping. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3513.	5.2	52
5280	Effective nanostructured morphologies for efficient hybrid solar cells. <i>Solar Energy</i> , 2014, 106, 1-22.	2.9	45
5281	Synthesis of a novel dinuclear ruthenium polypyridine dye for dye-sensitized solar cells application. <i>Polyhedron</i> , 2014, 67, 381-387.	1.0	22
5282	Enhanced performance of cadmium selenide quantum dot-sensitized solar cells by incorporating long afterglow europium, dysprosium co-doped strontium aluminate phosphors. <i>Journal of Colloid and Interface Science</i> , 2014, 416, 81-85.	5.0	35
5283	Engineering of Ru dyes for interfacial and light-harvesting optimization. <i>Dalton Transactions</i> , 2014, 43, 2726-2732.	1.6	21
5284	Polymer patchy colloids with sticky patches. <i>Polymer Chemistry</i> , 2014, 5, 365-371.	1.9	21
5286	Porphyryns for efficient dye-sensitized solar cells covering the near-IR region. <i>Journal of Materials Chemistry A</i> , 2014, 2, 991-999.	5.2	72
5287	Investigating photoinduced charge transfer in double- and single-emission $\text{PbS}@\text{CdS}$ core@shell quantum dots. <i>Nanoscale</i> , 2014, 6, 215-225.	2.8	46

#	ARTICLE	IF	CITATIONS
5288	Semiconductor Nanowires for Artificial Photosynthesis. <i>Chemistry of Materials</i> , 2014, 26, 415-422.	3.2	314
5289	Novel organic dyes incorporating a carbazole or dendritic 3,6-diiodocarbazole unit for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2014, 100, 269-277.	2.0	32
5290	Electrodeposition for the synthesis of ZnO nanorods modified by surface attachment with ZnO nanoparticles and their dye-sensitized solar cell applications. <i>Ceramics International</i> , 2014, 40, 1693-1698.	2.3	37
5291	Dielectric core-shell structures with enhanced scattering efficiency as back-reflectors in dye sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 3621-3626.	1.7	18
5292	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3005-3017.	3.8	76
5293	2% ZnO increases the conversion efficiency of TiO <sub>2</sub> based dye sensitized solar cells by 12%. <i>Journal of Alloys and Compounds</i> , 2014, 583, 414-418.	2.8	4
5294	Prediction of Electron Energies in Metal Oxides. <i>Accounts of Chemical Research</i> , 2014, 47, 364-372.	7.6	107
5295	Tuning the electron donating ability in the triphenylamine-based D-π-A architecture for highly efficient dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 273, 8-16.	2.0	57
5296	Theoretical and Experimental Study of a Dye-Sensitized Solar Cell. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 5234-5247.	1.8	27
5297	Graphitic carbon nitride/BiVO <sub>4</sub> heterojunctions: simple hydrothermal synthesis and high photocatalytic performances. <i>RSC Advances</i> , 2014, 4, 4187-4193.	1.7	92
5298	Synthesis and photovoltaic property of new kind of organic dyes containing 2,2'-bithiophene unit with three electron-donors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 278, 39-45.	2.0	12
5299	An iron oxide photoanode with hierarchical nanostructure for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2297-2305.	5.2	72
5300	Effect of architectures assembled by one dimensional ZnO nanostructures on performance of CdS quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 115, 487-492.	2.6	11
5301	Photovoltaic performance of dye-sensitized solar cells fabricated with polyvinylidene fluoride/polyacrylonitrile/silicondioxide hybrid composite membrane. <i>Materials Chemistry and Physics</i> , 2014, 143, 1191-1198.	2.0	17
5302	Colloidal hybrid heterostructures based on II-VI semiconductor nanocrystals for photocatalytic hydrogen generation. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 19, 52-61.	5.6	67
5303	TiO <sub>2</sub> thin film crystallization temperature lowered by Cu-induced solid phase crystallization. <i>Thin Solid Films</i> , 2014, 553, 17-20.	0.8	5
5304	Synergistic effect in Fe/N co-doped anatase TiO <sub>2</sub> (101) surface and the adsorption of di-, tri- and polyatomic gases: A DFT investigation. <i>Journal of Molecular Structure</i> , 2014, 1061, 160-165.	1.8	12
5305	Plasmon-induced hot-electron generation at nanoparticle/metal-oxide interfaces for photovoltaic and photocatalytic devices. <i>Nature Photonics</i> , 2014, 8, 95-103.	15.6	2,246

#	ARTICLE	IF	CITATIONS
5306	Photocatalytic activity of ZnO/Sn <sup>1-x</sup> Zn <sub>x</sub> O <sub>2</sub> nanocatalysts: A synergistic effect of doping and heterojunction. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 44-50.	10.8	25
5307	Poriferous microtablet of anatase TiO <sub>2</sub> growth on an ITO surface for high-efficiency dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 174-182.	3.0	40
5308	Self-assembly of graphene oxide/polyaniline multilayer counter electrodes for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 121, 136-142.	2.6	30
5309	High-performance self-powered UV photodetectors based on TiO <sub>2</sub> nano-branched arrays. <i>Nanotechnology</i> , 2014, 25, 075202.	1.3	85
5310	High Surface Area Transparent Conducting Oxide Electrodes with a Customizable Device Architecture. <i>Chemistry of Materials</i> , 2014, 26, 958-964.	3.2	15
5311	Ag <sub>2</sub> S quantum dot-sensitized WO <sub>3</sub> photoelectrodes for solar cells. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1627-1633.	1.2	35
5312	Artificial photosynthesis for solar hydrogen generation over transition-metal substituted Keggin-type titanium tungstate. <i>New Journal of Chemistry</i> , 2014, 38, 1315-1320.	1.4	17
5313	Assessing capability of semiconductors to split water using ionization potentials and electron affinities only. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3706.	1.3	226
5314	Highly efficient porphyrin-sensitized solar cells with enhanced light harvesting ability beyond 800 nm and efficiency exceeding 10%. <i>Energy and Environmental Science</i> , 2014, 7, 1392.	15.6	137
5315	Impact of the position isomer of the linkage in the double D-branch-based organic dyes on the photovoltaic performance. <i>Dyes and Pigments</i> , 2014, 104, 89-96.	2.0	25
5316	Cuprous sulfide counter electrodes prepared by ion exchange for high-efficiency quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2807.	5.2	63
5317	Rapid charge-transfer in polypyrrole-single wall carbon nanotube complex counter electrodes: Improved photovoltaic performances of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 256, 170-177.	4.0	86
5318	Exciton Quenching Due to Copper Diffusion Limits the Photocatalytic Activity of CdS/Cu <sub>2</sub> S Nanorod Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 590-596.	2.1	45
5319	Novel core-shell TiO <sub>2</sub> microsphere scattering layer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1502-1508.	5.2	43
5320	Tantalum and aluminum co-doped iron oxide as a robust photocatalyst for water oxidation. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 733-740.	10.8	98
5321	Density functional theory analysis of structural and electronic properties of orthorhombic perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1424-1429.	1.3	306
5322	Modification of TiO <sub>2</sub> nanotubes by Cu <sub>2</sub> O for photoelectrochemical, photocatalytic, and photovoltaic devices. <i>Electrochimica Acta</i> , 2014, 128, 341-348.	2.6	50
5323	Sub-150 °C processed meso-superstructured perovskite solar cells with enhanced efficiency. <i>Energy and Environmental Science</i> , 2014, 7, 1142-1147.	15.6	560



#	ARTICLE	IF	CITATIONS
5324	Electrochemical Characterization of TiO <sub>2</sub> Blocking Layers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16408-16418.	1.5	201
5325	ZnS-Passivated CdSe/CdS Co-sensitized Mesoporous Zn <sub>2</sub> SnO <sub>4</sub> Based Solar Cells. Electrochimica Acta, 2014, 121, 223-232.	2.6	15
5326	Anthracene based organic dipolar compounds for sensitized solar cells. Tetrahedron, 2014, 70, 262-269.	1.0	26
5327	A one-pot solvothermal synthesis of hierarchical microspheres with radially assembled single-crystalline TiO <sub>2</sub> -nanorods for high performance dye-sensitized solar cells. Journal of Materials Chemistry C, 2014, 2, 1381-1385.	2.7	25
5328	Upconversion induced enhancement of dye sensitized solar cells based on core-shell structured I <sup>2</sup> -NaYF <sub>4</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> @SiO <sub>2</sub> nanoparticles. Nanoscale, 2014, 6, 2052-2055.	2.8	60
5329	Synthesis and photoactivity of nanostructured CdS@TiO <sub>2</sub> composite catalysts. Catalysis Today, 2014, 225, 64-73.	2.2	159
5330	Silicon Microwire Arrays for Solar Energy-Conversion Applications. Journal of Physical Chemistry C, 2014, 118, 747-759.	1.5	85
5331	MoS <sub>2</sub> . Lecture Notes in Nanoscale Science and Technology, 2014, , .	0.4	42
5332	High performance Cr, N-codoped mesoporous TiO <sub>2</sub> microspheres for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 1818-1824.	5.2	58
5334	Absolute redox potential of liquid water: a first-principles theory. Chemical Science, 2014, 5, 1216-1220.	3.7	9
5335	Enhancement of Photocatalytic Water Oxidation by the Morphological Control of LaTiO <sub>2</sub> N and Cobalt Oxide Catalysts. Journal of Physical Chemistry C, 2014, 118, 16344-16351.	1.5	82
5336	Highly efficient and stable DSSCs of wet-chemically synthesized MoS <sub>2</sub> counter electrode. Dalton Transactions, 2014, 43, 5256-5259.	1.6	77
5337	CdS nanoparticle sensitized titanium dioxide decorated graphene for enhancing visible light induced photoanode. Applied Surface Science, 2014, 320, 772-779.	3.1	39
5338	Tailoring the Ti surface via electropolishing nanopatterning as a route to obtain highly ordered TiO <sub>2</sub> nanotubes. Nanotechnology, 2014, 25, 485301.	1.3	10
5339	Physical Factors Affecting Charge Transfer at the Pe-COOH@TiO <sub>2</sub> Anatase Interface. Journal of Physical Chemistry C, 2014, 118, 25310-25319.	1.5	10
5340	Dithieno[2,3-d;2',3'-d']benzo[1,2-b;4,5-b']dithiophene based organic sensitizers for dye-sensitized solar cells. RSC Advances, 2014, 4, 54130-54133.	1.7	16
5341	Characterization of the TiO <sub>2</sub> /Dye/Electrolyte Interfaces in Dye-Sensitized Solar Cells by Means of a Titania-Binding Nitroxide. Langmuir, 2014, 30, 13570-13580.	1.6	4
5342	Microwave-Assisted Topochemical Conversion of Layered Titanate Nanosheets to {010}-Faceted Anatase Nanocrystals for High Performance Photocatalysts and Dye-Sensitized Solar Cells. Crystal Growth and Design, 2014, 14, 5801-5811.	1.4	47

#	ARTICLE	IF	CITATIONS
5343	Triarylamine-based dual-function coadsorbents with extended $\pi$ -conjugation aryl linkers for organic dye-sensitized solar cells. <i>Organic Electronics</i> , 2014, 15, 3316-3326.	1.4	17
5344	Driving Force Dependent, Photoinduced Electron Transfer at Degenerately Doped, Optically Transparent Semiconductor Nanoparticle Interfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 15869-15872.	6.6	43
5345	TiO <sub>2</sub> nanotubes as flexible photoanode for back-illuminated dye-sensitized solar cells with hemi-squaraine organic dye and iodine-free transparent electrolyte. <i>Organic Electronics</i> , 2014, 15, 3715-3722.	1.4	74
5346	Enhanced Photoelectrochemical Strategy for Ultrasensitive DNA Detection Based on Two Different Sizes of CdTe Quantum Dots Cosensitized TiO <sub>2</sub> /CdS:Mn Hybrid Structure. <i>Analytical Chemistry</i> , 2014, 86, 10877-10884.	3.2	109
5347	Artificial photosynthesis: A two-electrode photoelectrochemical cell for light driven water oxidation with molecular components. <i>Electrochimica Acta</i> , 2014, 149, 337-340.	2.6	11
5348	147% improved efficiency of dye synthesized solar cells by using CdS QDs, Au nanorods and Au nanoparticles. <i>RSC Advances</i> , 2014, 4, 62356-62361.	1.7	45
5349	Influence of Fe and Al doping on the stabilization of the anatase phase in TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10377-10385.	2.7	63
5350	Reduction of CO <sub>2</sub> to Methanol Catalyzed by a Biomimetic Organo-Hydride Produced from Pyridine. <i>Journal of the American Chemical Society</i> , 2014, 136, 16081-16095.	6.6	131
5351	Polymer-Nanocomposite Brush-like Architectures as an All-Solid Electrolyte Matrix. <i>ACS Nano</i> , 2014, 8, 11409-11424.	7.3	34
5352	Ruthenium(II) Photosensitizers with Electron-Rich Diarylamino-Functionalized 2,2'-Bipyridines and Their Application in Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5322-5330.	1.0	10
5353	Low temperature growth of hybrid ZnO/TiO <sub>2</sub> nano-sculptured foxtail-structures for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 61153-61159.	1.7	15
5354	An efficient photoanode consisting of TiO <sub>2</sub> nanoparticle-filled TiO <sub>2</sub> nanotube arrays for dye sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 268, 941-949.	4.0	45
5355	Oxide Nanomaterials and their Applications as a Memristor. <i>Solid State Phenomena</i> , 0, 222, 67-97.	0.3	24
5356	Rational modifications on champion porphyrin dye SM315 using different electron-withdrawing moieties toward high performance dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24994-25003.	1.3	40
5357	Eu <sup>3+</sup> -Doped NaGdF <sub>4</sub> Nanocrystal Down-Converting Layer for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17454-17462.	4.0	37
5358	Dual-Functional CeO <sub>2</sub> :Eu <sup>3+</sup> Nanocrystals for Performance-Enhanced Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19825-19832.	4.0	83
5359	Realizing InGaN monolithic solar-photoelectrochemical cells for artificial photosynthesis. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	29
5360	Fabrication of Efficient NiO Photocathodes Prepared via RDS with Novel Routes of Substrate Processing for <i>i</i> -Type Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , 2014, 1, 384-391.	1.7	51

#	ARTICLE	IF	CITATIONS
5361	Influence of iron contaminations on local and bulk magnetic properties of nonfunctionalized and functionalized multi-wall carbon nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 661-669.	0.8	7
5362	Formation of a CdO Layer on CdS/ZnO Nanorod Arrays to Enhance their Photoelectrochemical Performance. <i>ChemSusChem</i> , 2014, 7, 3505-3512.	3.6	25
5363	Pulsed Laser Deposition of Epitaxial and Polycrystalline Bismuth Vanadate Thin Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26543-26550.	1.5	49
5364	Boron-Doped Diamond Functionalization by an Electrografting/Alkyne-Azide Click Chemistry Sequence. <i>ChemElectroChem</i> , 2014, 1, 1145-1154.	1.7	21
5365	Photoelectrochemical Hydrogen Production in Alkaline Solutions Using Cu <sub>2</sub> O Coated with Earth-Abundant Hydrogen Evolution Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 664-667.	7.2	134
5366	Improved catalytic performance of Pt/TiO <sub>2</sub> nanotubes electrode for ammonia oxidation under UV-light illumination. <i>Electrochimica Acta</i> , 2014, 150, 146-150.	2.6	32
5367	Optical properties and structure of the TiN-nitrogen-doped TiO <sub>2</sub> nanocomposite. <i>Applied Surface Science</i> , 2014, 321, 457-463.	3.1	9
5368	Multi-edged wrinkled graphene-like carbon-wrapped carbon nanotubes and highly conductive Pt-free counter electrode for dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	8
5369	Role of synthesis medium of TiO <sub>2</sub> nanoparticles in enhancing the open circuit voltage and efficiency in dye-sensitized solar cell. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 3407-3414.	1.2	5
5370	Efficient enhancement of solar-water-splitting by modified Z-scheme-structural WO <sub>3</sub> -W-Si photoelectrodes. <i>Applied Physics Letters</i> , 2014, 105, 143902.	1.5	17
5371	Efficient Perovskite Solar Cells with 13.63% Efficiency Based on Planar Triphenylamine Hole Conductors. <i>Chemistry - A European Journal</i> , 2014, 20, 10894-10899.	1.7	136
5372	Hybrid polymer electrolyte composite with SiO <sub>2</sub> nanofiber filler for solid-state dye-sensitized solar cells. <i>Composites Science and Technology</i> , 2014, 103, 100-105.	3.8	21
5373	Reversible Chemical Tuning of Charge Carriers for Enhanced Photoelectrochemical Conversion and Probing of Living Cells. <i>Small</i> , 2014, 10, 4967-4974.	5.2	18
5374	Supramolecular Formation of Li <sup>+</sup> @PCBM Fullerene with Sulfonated Porphyrins and Long-Lived Charge Separation. <i>ChemPhysChem</i> , 2014, 15, 3782-3790.	1.0	12
5375	Graphene-based carbon-layered electrode array technology for neural imaging and optogenetic applications. <i>Nature Communications</i> , 2014, 5, 5258.	5.8	485
5377	Preparation of a Phosphor/TiO <sub>2</sub> nanoparticle composite layer for applications in dye-sensitized solar cells. <i>Journal of the Korean Physical Society</i> , 2014, 65, 387-391.	0.3	1
5378	Creation of Nickel-Based Active Species within a Macroreticular Acidic Resin: A Noble-Metal-Free Heterogeneous Catalyst for Visible-Light-Driven H <sub>2</sub> Evolution from Water. <i>ACS Catalysis</i> , 2014, 4, 4129-4135.	5.5	23
5379	Molecular design of the diketopyrrolopyrrole-based dyes with varied donor units for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 271, 455-464.	4.0	43

#	ARTICLE	IF	CITATIONS
5380	Size-Selected TiO <sub>2</sub> Nanocluster Catalysts for Efficient Photoelectrochemical Water Splitting. ACS Nano, 2014, 8, 11891-11898.	7.3	68
5381	Theoretical design of highly efficient porphyrazine solar cells. Physica Scripta, 2014, 89, 125801.	1.2	0
5382	Preparation of Layered Double Hydroxide and its Graphene Composite Films as Electrodes for Photoelectrochemical Cells. Key Engineering Materials, 2014, 616, 129-133.	0.4	2
5383	First-principles real-space study of electronic and optical excitations in rutile TiO <sub>2</sub> nanocrystals. Physical Review B, 2014, 90, .	1.1	15
5384	What Makes Hydroxamate a Promising Anchoring Group in Dye-Sensitized Solar Cells? Insights from Theoretical Investigation. Journal of Physical Chemistry Letters, 2014, 5, 3992-3999.	2.1	61
5385	Performance Enhancement of Quantum-Dot-Sensitized Solar Cells by Potential-Induced Ionic Layer Adsorption and Reaction. ACS Applied Materials & Interfaces, 2014, 6, 19378-19384.	4.0	18
5386	Preparation and photoelectric property of TiO <sub>2</sub> nanoparticles with controllable phase junctions. Applied Surface Science, 2014, 321, 531-537.	3.1	14
5387	A method for large-scale synthesis of Al-doped TiO <sub>2</sub> nanopowder using pulse-modulated induction thermal plasmas with time-controlled feedstock feeding. Journal Physics D: Applied Physics, 2014, 47, 195304.	1.3	38
5388	A free radical assisted strategy for preparing ultra-small Pt decorated CNTs as a highly efficient counter electrode for dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 614-619.	5.2	29
5389	Facile synthesis of Bi <sub>2</sub> S <sub>3</sub> -C composite microspheres as low-cost counter electrodes for dye-sensitized solar cells. RSC Advances, 2014, 4, 57412-57418.	1.7	19
5390	Optimization of amorphous silicon double junction solar cells for an efficient photoelectrochemical water splitting device based on a bismuth vanadate photoanode. Physical Chemistry Chemical Physics, 2014, 16, 4220-4229.	1.3	40
5391	The effect of photoanode structure on the performances of quantum-dot-sensitized solar cells: a case study of the anatase TiO <sub>2</sub> nanocrystals and polydisperse mesoporous spheres hybrid photoanodes. Journal of Materials Chemistry A, 2014, 2, 16276-16284.	5.2	38
5392	Enhanced dye illumination in dye-sensitized solar cells using TiO <sub>2</sub> /GeO <sub>2</sub> photo-anodes. Journal of Materials Chemistry A, 2014, 2, 12459.	5.2	48
5393	Formation of a n heterojunction on GaP photocathodes for H <sub>2</sub> production providing an open-circuit voltage of 710 mV. Journal of Materials Chemistry A, 2014, 2, 6847-6853.	5.2	75
5394	Charge separation in facet-engineered chalcogenide photocatalyst: a selective photocorrosion approach. Nanoscale, 2014, 6, 9695-9702.	2.8	82
5395	Solution processed transparent nanoparticulate ZnO thin film electrode for photoelectrochemical water oxidation. RSC Advances, 2014, 4, 23562-23570.	1.7	17
5396	A photofuel cell comprising titanium oxide and silver(i)/0 photocatalysts for use of acidic water as a fuel. Chemical Communications, 2014, 50, 3067-3070.	2.2	25
5397	Microporous organic nanorods with electronic push-pull skeletons for visible light-induced hydrogen evolution from water. Journal of Materials Chemistry A, 2014, 2, 7656.	5.2	60

#	ARTICLE	IF	CITATIONS
5398	Manipulation of cuprous oxide surfaces for improving their photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11621-11627.	5.2	22
5399	Soft-template-carbonization route to highly textured mesoporous carbon@TiO <sub>2</sub> inverse opals for efficient photocatalytic and photoelectrochemical applications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9023-9030.	1.3	56
5400	Cosensitizers for simultaneous filling up of both absorption valleys of porphyrins: a novel approach for developing efficient panchromatic dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 15609-15612.	2.2	99
5401	In situ surface hydrogenation synthesis of Ti <sup>3+</sup> self-doped TiO <sub>2</sub> with enhanced visible light photoactivity. <i>Nanoscale</i> , 2014, 6, 9078-9084.	2.8	149
5402	Nanoscale Strain Engineering on the Surface of a Bulk TiO <sub>2</sub> Crystal. <i>Nano Letters</i> , 2014, 14, 6185-6189.	4.5	35
5403	Highly stable dye-sensitized solar cells with quasi-solid-state electrolyte based on Flemion. <i>Solar Energy</i> , 2014, 110, 648-655.	2.9	5
5404	A novel photoelectrochemical flow cell with online mass spectrometric detection: oxidation of formic acid on a nanocrystalline TiO <sub>2</sub> electrode. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25076-25080.	1.3	11
5405	Multi-walled carbon nanotube induced co-continuity of poly(ether ether ketone)/polyimide blends for high performance conductive materials. <i>RSC Advances</i> , 2014, 4, 42175-42182.	1.7	23
5406	Synthesis of TiO <sub>2</sub> hollow spheres using titanium tetraisopropoxide: fabrication of high efficiency dye sensitized solar cells with photoanodes of different nanocrystalline TiO <sub>2</sub> sub-layers. <i>RSC Advances</i> , 2014, 4, 58064-58076.	1.7	21
5407	Engineering diketopyrrolopyrrole sensitizers for highly efficient dye-sensitized solar cells: enhanced light harvesting and intramolecular charge transfer. <i>RSC Advances</i> , 2014, 4, 16906-16912.	1.7	11
5408	Dye-injected electron trapping in TiO <sub>2</sub> determined by broadband transient infrared spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1393-1396.	1.6	5
5409	A facile and efficient preparation of anatase titania nanoparticles in micelle nanoreactors: morphology, structure, and their high photocatalytic activity under UV light illumination. <i>RSC Advances</i> , 2014, 4, 56406-56414.	1.7	52
5410	Influence of the anchoring number in a carbazole-based photosensitizer on the photovoltaic performance of p-type NiO dye sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 61248-61255.	1.7	17
5411	Local geometric and electronic structures of gasochromic VO <sub>x</sub> films. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4699.	1.3	19
5412	An oxygen evolution Co@Ac catalyst – the synergistic effect of phosphate ions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5412-5422.	1.3	28
5413	Electrochemical, spectroscopic and theoretical studies of a simple bifunctional cobalt corrole catalyst for oxygen evolution and hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1883-1893.	1.3	188
5414	Hydrogen-treated hematite nanostructures with low onset potential for highly efficient solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6727.	5.2	87
5415	High electrocatalytic activity of W <sub>18</sub> O <sub>49</sub> nanowires for cobalt complex and ferrocenium redox mediators. <i>RSC Advances</i> , 2014, 4, 42190-42196.	1.7	7

#	ARTICLE	IF	CITATIONS
5416	Approach to tune short-circuit current and open-circuit voltage of dye-sensitized solar cells: Ñ-linker modification and photoanode selection. RSC Advances, 2014, 4, 42252-42259.	1.7	26
5417	Band structure engineering of monolayer MoS <sub>2</sub> by surface ligand functionalization for enhanced photoelectrochemical hydrogen production activity. Nanoscale, 2014, 6, 13565-13571.	2.8	62
5418	Photoelectrochemical activity of ZnFe <sub>2</sub> O <sub>4</sub> modified Ñ-Fe <sub>2</sub> O <sub>3</sub> nanorod array films. RSC Advances, 2014, 4, 36967.	1.7	48
5419	A new family of sunlight-driven bifunctional photocatalysts based on TiO <sub>2</sub> nanoribbon frameworks and bismuth oxohalide nanoplates. Nanoscale, 2014, 6, 1434-1444.	2.8	48
5420	Fabrication of black hierarchical TiO <sub>2</sub> nanostructures with enhanced photocatalytic activity. RSC Advances, 2014, 4, 29443-29449.	1.7	26
5421	Hedgehog-like hierarchical ZnO needle-clusters with superior electron transfer kinetics for dye-sensitized solar cells. RSC Advances, 2014, 4, 11430-11437.	1.7	28
5422	Photocatalytic reduction of Cr(VI) by polyoxometalates/TiO <sub>2</sub> electrospun nanofiber composites. RSC Advances, 2014, 4, 44322-44326.	1.7	27
5423	Adsorption and electronic states of morin on TiO <sub>2</sub> nanoparticles. Chemical Physics, 2014, 443, 61-66.	0.9	13
5424	Molecular engineering of panchromatic isoindigo sensitizers for dye-sensitized solar cell applications. Chemical Communications, 2014, 50, 4309.	2.2	36
5425	Visible-light driven H <sub>2</sub> production utilizing iridium and rhodium complexes intercalated into a zirconium phosphate layered matrix. Dalton Transactions, 2014, 43, 10541.	1.6	29
5426	Metallicity enhancement in core-shell SiO <sub>2</sub> @RuO <sub>2</sub> nanowires. RSC Advances, 2014, 4, 34696-34700.	1.7	1
5427	Applying alloyed metal nanoparticles to enhance solar assisted water splitting. RSC Advances, 2014, 4, 46697-46703.	1.7	22
5428	Flexible quantum dot-sensitized solar cells with improved efficiencies based on woven titanium wires. Journal of Materials Chemistry A, 2014, 2, 15546.	5.2	21
5429	Shielding effects of additives in a cobalt(II/III) redox electrolyte: toward higher open-circuit photovoltages in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 10532.	5.2	21
5430	Transparent conductive oxide electrode dependence of photocurrent characteristics in bacteriorhodopsin photocells. Chemical Physics Letters, 2014, 616-617, 6-10.	1.2	4
5431	Densely packed setose ZnO nanorod arrays for dye sensitized solar cells. Synthetic Metals, 2014, 198, 137-141.	2.1	4
5432	Photoelectrochemical (PEC) studies on Cd <sub>0.5</sub> Fe <sub>0.5</sub> Se nanocrystalline thin films deposited by a spray pyrolysis technique. Materials Science in Semiconductor Processing, 2014, 27, 740-747.	1.9	5
5433	Nitrogen and sulfur co-doped graphene counter electrodes with synergistically enhanced performance for dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 12232-12239.	5.2	125

#	ARTICLE	IF	CITATIONS
5434	Dye-Sensitized Solar Cells Employing a Multifunctionalized Hierarchical SnO <sub>2</sub> Nanoflower Structure Passivated by TiO <sub>2</sub> Nanogranulum. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3504-3513.	1.5	41
5435	Enhanced Performance of Dye-Sensitized Solar Cells By Tuning the Structure of the Photoanode Film. <i>Electrochimica Acta</i> , 2014, 145, 286-290.	2.6	4
5436	Amorphous Molybdenum Sulfides as Hydrogen Evolution Catalysts. <i>Accounts of Chemical Research</i> , 2014, 47, 2671-2681.	7.6	529
5437	Thickness effect of hematite nanostructures prepared by hydrothermal method for solar water splitting. <i>Applied Surface Science</i> , 2014, 320, 213-217.	3.1	34
5438	Ni <sub>3</sub> S <sub>2</sub> /Ni <sup>2+</sup> P Bilayer Coated on Polyimide as a Pt- and TCO-Free Flexible Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3357-3364.	4.0	41
5439	Temperature effect on water splitting using a Si-doped hematite photoanode. <i>Journal of Power Sources</i> , 2014, 272, 567-580.	4.0	62
5440	Recent advances in TiO <sub>2</sub> -based photocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12642.	5.2	418
5441	Enhanced Photovoltaic Performance of Polymer Hybrid Nanostructure Heterojunction Solar Cells Based on Poly(3-hexylthiophene)/ZnS/ZnO/Reduced Graphene Oxide Shell <sup>+</sup> Core Nanorod Arrays. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 14301-14309.	1.8	20
5442	Low-cost Nanomaterials. <i>Green Energy and Technology</i> , 2014, , .	0.4	16
5443	Inverse opal structured Ag/TiO <sub>2</sub> plasmonic photocatalyst prepared by pulsed current deposition and its enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 824-832.	5.2	133
5444	Optofluidics based micro-photocatalytic fuel cell for efficient wastewater treatment and electricity generation. <i>Lab on A Chip</i> , 2014, 14, 3368.	3.1	80
5445	Light harvesting properties of ferrocenyl based sensitizer with sulfur rich dithiocarbamates and xanthate as anchoring group. <i>Solar Energy</i> , 2014, 108, 560-569.	2.9	31
5446	Stability of ruthenium/organic dye co-sensitized solar cells: a joint experimental and computational investigation. <i>RSC Advances</i> , 2014, 4, 57620-57628.	1.7	14
5447	A high performance quasi-solid-state self-powered UV photodetector based on TiO <sub>2</sub> nanorod arrays. <i>Nanoscale</i> , 2014, 6, 9116.	2.8	54
5448	Nitrogen-doped carbon and iron carbide nanocomposites as cost-effective counter electrodes of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4676-4681.	5.2	50
5449	Building smart TiO <sub>2</sub> nanorod networks in/on the film of P25 nanoparticles for high-efficiency dye sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 12944-12949.	1.7	22
5450	Fluorene-bridged organic dyes with di-anchoring groups for efficient co-adsorbent-free dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7086.	2.7	33
5451	Effect of a deposition container on the nanostructural growth and DSSC application of rutile TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2014, 2, 478-483.	5.2	9

#	ARTICLE	IF	CITATIONS
5452	Effect of ion structure on nanoscale friction in protic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16651.	1.3	41
5453	A {0001} faceted single crystal NiS nanosheet electrocatalyst for dye-sensitised solar cells: sulfur-vacancy induced electrocatalytic activity. <i>Chemical Communications</i> , 2014, 50, 5569.	2.2	60
5454	The effect of substituents on the surface modification of anatase nanoparticles with catecholate-type ligands: a combined DFT and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20796-20805.	1.3	50
5455	A morphology effect of hematite photoanode for photoelectrochemical water oxidation. <i>RSC Advances</i> , 2014, 4, 37701.	1.7	14
5456	Turning commercial transition-metal oxides into efficient electrocatalysts via facile hydrogen treatment. <i>RSC Advances</i> , 2014, 4, 12534.	1.7	1
5457	Iron based photoanodes for solar fuel production. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11834.	1.3	120
5458	Black TiO <sub>2</sub> nanotube arrays for high-efficiency photoelectrochemical water-splitting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8612-8616.	5.2	355
5459	Localized Order-Disorder Transitions Induced by Li Segregation in Amorphous TiO <sub>2</sub> Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18962-18970.	4.0	8
5460	In situ environmental transmission electron microscopy study of oxidation of two-dimensional Ti <sub>3</sub> C <sub>2</sub> and formation of carbon-supported TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2014, 2, 14339.	5.2	287
5461	One-step preparation of mirror-like NiS nanosheets on ITO for the efficient counter electrode of dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 9869.	2.2	64
5462	Synthesis of a hierarchically meso-macroporous TiO <sub>2</sub> film based on UV light-induced in situ polymerization: application to dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 44692-44699.	1.7	10
5463	Improving the photoelectrochemical activity of La <sub>5</sub> Ti <sub>2</sub> Cu <sub>5</sub> O <sub>7</sub> for hydrogen evolution by particle transfer and doping. <i>Energy and Environmental Science</i> , 2014, 7, 2239-2242.	15.6	61
5464	Ruthenium(ii) quasi-solid state dye sensitized solar cells with 8% efficiency using a supramolecular oligomer-based electrolyte. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13338-13344.	5.2	4
5465	The role of the Ti surface roughness in the self-ordering of TiO <sub>2</sub> nanotubes: a detailed study of the growth mechanism. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9067-9078.	5.2	52
5466	Dynamics of roughening and growth kinetics of CdS/polyaniline thin films synthesized by the Langmuir-Blodgett technique. <i>RSC Advances</i> , 2014, 4, 32490-32503.	1.7	14
5467	NH <sub>3</sub> treatment of TiO <sub>2</sub> nanotubes: from N-doping to semimetallic conductivity. <i>Chemical Communications</i> , 2014, 50, 7960.	2.2	27
5468	Designing patchy particles for optimum interfacial activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8283.	1.3	19
5469	Microwave-assisted nonaqueous synthesis of WO <sub>3</sub> nanoparticles for crystallographically oriented photoanodes for water splitting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20530-20537.	5.2	46



#	ARTICLE	IF	CITATIONS
5470	Interfacial Effects on the Band Edges of Functionalized Si Surfaces in Liquid Water. <i>Journal of the American Chemical Society</i> , 2014, 136, 17071-17077.	6.6	81
5471	TiInZnO/Ag/TiInZnO multilayer films for transparent conducting electrodes of dye-sensitized solar cells. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 032301.	0.8	11
5472	Co-Sensitization of Zinc and Free-Base Porphyrins with an Organic Dye for Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27801-27807.	1.5	44
5473	Calculation of the Energy Band Diagram of a Photoelectrochemical Water Splitting Cell. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29599-29607.	1.5	56
5474	The Influence of NaOH Concentration on the Performance of ZnO by a Hydrothermal Process. <i>Applied Mechanics and Materials</i> , 0, 521, 563-566.	0.2	1
5475	Enhanced Performance of Flexible Dye-Sensitized Solar Cell based on Nickel Sulfide/Polyaniline/Titanium Counter Electrode. <i>Electrochimica Acta</i> , 2014, 149, 117-125.	2.6	33
5476	Nitrogen-Doped Graphene/Platinum Counter Electrodes for Dye-Sensitized Solar Cells. <i>ACS Photonics</i> , 2014, 1, 1264-1269.	3.2	35
5477	Electrochemical Impedance Spectroscopic Study of Anatase TiO <sub>2</sub> Nanoparticle. <i>Materials Science Forum</i> , 2014, 781, 127-133.	0.3	0
5478	Dye-Anchoring Functional Groups on the Performance of Dye-Sensitized Solar Cells: Comparison between Alkoxysilyl and Carboxyl Groups. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28425-28434.	1.5	43
5479	Review of Sn-Doped Hematite Nanostructures for Photoelectrochemical Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1113-1121.	1.2	99
5480	A biomimetic photoelectrochemical device from a molecular heterometallic sodium-manganese water splitting catalyst. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 705-711.	3.0	4
5481	Improving the photovoltaic performance of solid-state ZnO/CdTe core-shell nanorod array solar cells using a thin CdS interfacial layer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5675-5681.	5.2	34
5482	Directly hydrothermal growth of ultrathin MoS <sub>2</sub> nanostructured films as high performance counter electrodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 21277.	1.7	82
5483	Enhancing photocatalytic activity of disorder-engineered C/TiO <sub>2</sub> and TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7439-7445.	5.2	130
5484	Interface engineering for efficient and stable chemical-doping-free graphene-on-silicon solar cells by introducing a graphene oxide interlayer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16877-16883.	5.2	93
5485	Towards highly efficient photoanodes: boosting sunlight-driven semiconductor nanomaterials for water oxidation. <i>Nanoscale</i> , 2014, 6, 7142.	2.8	173
5486	Synthesis and photophysical characterization of porphyrin and porphyrin-Ru(ii) polypyridyl chromophore-catalyst assemblies on mesoporous metal oxides. <i>Chemical Science</i> , 2014, 5, 3115.	3.7	56
5487	Sulfur copolymer nanowires with enhanced visible-light photoresponse. <i>Chemical Communications</i> , 2014, 50, 11208-11210.	2.2	32

#	ARTICLE	IF	CITATIONS
5488	A beyond near-infrared response in a wide-bandgap ZnO/ZnSe coaxial nanowire solar cell by pseudomorphic layers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14571.	5.2	11
5489	Synthesis of Bi <sub>2</sub> WO <sub>6</sub> photoanode on transparent conducting oxide substrate with low onset potential for solar water splitting. <i>RSC Advances</i> , 2014, 4, 24032-24037.	1.7	13
5490	Binding and fluorescence enhancing behaviour of phenanthrimidazole with different phases of TiO <sub>2</sub> . <i>New Journal of Chemistry</i> , 2014, 38, 4321.	1.4	7
5491	Synthesis of tunable Zn-CuS microspheres and visible-light photoactivity for rhodamine B. <i>New Journal of Chemistry</i> , 2014, 38, 4182-4189.	1.4	49
5492	Band alignment by ternary crystalline potential-tuning interlayer for efficient electron injection in quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7004-7014.	5.2	26
5493	Cabbage leaf-shaped two-dimensional TiO <sub>2</sub> mesostructures for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 27084-27090.	1.7	15
5494	Rapid formation of black titania photoanodes: pulsed laser-induced oxygen release and enhanced solar water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6762-6771.	5.2	52
5495	High-performance n-Si/Fe <sub>2</sub> O <sub>3</sub> core/shell nanowire array photoanode towards photoelectrochemical water splitting. <i>Nanoscale</i> , 2014, 6, 3182-3189.	2.8	91
5496	Enhancing photo-induced ultrafast charge transfer across heterojunctions of CdS and laser-sintered TiO <sub>2</sub> nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10669-10678.	1.3	10
5497	Coupling Ti-doping and oxygen vacancies in hematite nanostructures for solar water oxidation with high efficiency. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2491.	5.2	128
5498	Efficient band alignment for Zn <sub>x</sub> Cd <sub>1-x</sub> Se QD-sensitized TiO <sub>2</sub> solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3669.	5.2	28
5499	Rhodium growth on Cu <sub>2</sub> S nanocrystals yielding hybrid nanoscale inorganic cages and their synergistic properties. <i>CrystEngComm</i> , 2014, 16, 9506-9512.	1.3	26
5500	A quantum mechanical study of water adsorption on the (110) surfaces of rutile SnO <sub>2</sub> and TiO <sub>2</sub> : investigating the effects of intermolecular interactions using hybrid-exchange density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21002-21015.	1.3	23
5501	Artificial photosynthesis functional devices for light driven water splitting with photoactive anodes based on molecular catalysts. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12008.	1.3	84
5502	Reduced monoclinic BiVO <sub>4</sub> for improved photoelectrochemical oxidation of water under visible light. <i>Dalton Transactions</i> , 2014, 43, 7691.	1.6	62
5503	Photovoltaic Property of Anatase TiO <sub>2</sub> 3-D Mesoflowers. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2772-2780.	3.2	35
5504	Stable Quantum Dot Photoelectrolysis Cell for Unassisted Visible Light Solar Water Splitting. <i>ACS Nano</i> , 2014, 8, 10403-10413.	7.3	162
5505	Photosensitizing activity of ferrocenyl bearing Ni(ii) and Cu(ii) dithiocarbamates in dye sensitized TiO <sub>2</sub> solar cells. <i>Dalton Transactions</i> , 2014, 43, 4752.	1.6	72

#	ARTICLE	IF	CITATIONS
5506	Fabrication and characterization of coil type transparent conductive oxide-less cylindrical dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 22959-22963.	1.7	5
5507	Surface treatment with Al <sup>3+</sup> on a Ti-doped $\text{Fe}_2\text{O}_3$ nanorod array photoanode for efficient photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13705.	5.2	107
5508	Thiocyanate-free cyclometalated ruthenium(ii) sensitizers for DSSC: A combined experimental and theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2630.	1.3	48
5509	Low viscosity highly conductive ionic liquid blends for redox active electrolytes in efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15326-15336.	5.2	39
5510	Size-controlled synthesis of mesoporous Nb <sub>2</sub> O <sub>5</sub> microspheres for dye sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 35546-35553.	1.7	43
5511	Fe-terpyridyl complex based multiple switches for application in molecular logic gates and circuits. <i>New Journal of Chemistry</i> , 2014, 38, 2679-2685.	1.4	16
5512	The electrical conductivity of thin film donor doped hematite: from insulator to semiconductor by defect modulation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11374.	1.3	56
5513	Creating electrochemical gradients by light: from bio-inspired concepts to photoelectric conversion. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19781-19789.	1.3	25
5514	Light-driven microbial dissimilatory electron transfer to hematite. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23003-23011.	1.3	41
5515	Atmospheric growth and strong visible luminescence of anatase titanium oxide films with various orientations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6708-6713.	5.2	7
5516	Identification of adsorbed molecules via STM tip manipulation: CO, H <sub>2</sub> O, and O <sub>2</sub> on TiO <sub>2</sub> anatase (101). <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21524-21530.	1.3	48
5517	Photocurrent enhanced dye-sensitized solar cells based on TiO <sub>2</sub> loaded K <sub>6</sub> SiW <sub>11</sub> O <sub>39</sub> Co( $\text{H}_2\text{O}$ ) <sub>x</sub> H <sub>2</sub> O photoanode materials. <i>Dalton Transactions</i> , 2014, 43, 1577-1582.	1.6	23
5518	Post-treatment on dye-sensitized solar cells with TiCl <sub>4</sub> and Nb <sub>2</sub> O <sub>5</sub> . <i>RSC Advances</i> , 2014, 4, 6746.	1.7	13
5519	Directional charge transfer and highly reducing and oxidizing excited states of new dirhodium( $\text{II}$ , $\text{I}$ ) complexes: potential applications in solar energy conversion. <i>Chemical Science</i> , 2014, 5, 727-737.	3.7	31
5520	Effect of ZnS buffer layers in ZnO/ZnS/CdS nanorod array photoelectrode on the photoelectrochemical performance. <i>RSC Advances</i> , 2014, 4, 20716.	1.7	26
5521	Localized nano-solid-solution induced by Cu doping in ZnS for efficient solar hydrogen generation. <i>Dalton Transactions</i> , 2014, 43, 11533-11541.	1.6	20
5522	Single-crystal CoSe <sub>2</sub> nanorods as an efficient electrocatalyst for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16023-16029.	5.2	94
5523	New triazolium based ionic liquid crystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7976.	2.7	30

#	ARTICLE	IF	CITATIONS
5524	SnO <sub>2</sub> nanorod@TiO <sub>2</sub> hybrid material for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8266-8272.	5.2	40
5525	Effect of cation symmetry on the organization of ionic liquids near a charged mica surface. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 284101.	0.7	19
5526	Theoretical study on molecular design and optical properties of organic sensitizers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15389.	1.3	12
5527	Visible Light-Driven Water Splitting in Photoelectrochemical Cells with Supramolecular Catalysts on Photoanodes. <i>ACS Catalysis</i> , 2014, 4, 2347-2350.	5.5	115
5528	Influence of Al <sub>2</sub> O <sub>3</sub> nanoparticles embedded-TiO <sub>2</sub> nanofibers based photoanodes on photovoltaic performance of a dye sensitized solar cell. <i>RSC Advances</i> , 2014, 4, 52871-52877.	1.7	16
5529	Femtosecond Transient Absorption Study of Supramolecularly Assembled Metal Tetrapyrrole@TiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16660-16671.	1.5	25
5530	Dimensionality of Nanoscale TiO <sub>2</sub> Determines the Mechanism of Photoinduced Electron Injection from a CdSe Nanoparticle. <i>Nano Letters</i> , 2014, 14, 1790-1796.	4.5	38
5531	Substrate Dependent Water Splitting with Ultrathin $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Electrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16494-16503.	1.5	66
5532	Micrometer-Sized Fluorine Doped Tin Oxide As Fast Electron Collector for Enhanced Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16593-16600.	4.0	12
5533	Improvement of CdSe quantum dot sensitized solar cells by surface modification of Cu <sub>2</sub> S nanocrystal counter electrodes. <i>RSC Advances</i> , 2014, 4, 51471-51476.	1.7	7
5534	Size and concentration effects of gold nanoparticles on optical and electrical properties of plasmonic dye sensitized solar cells. <i>Solar Energy</i> , 2014, 109, 11-23.	2.9	71
5535	Hydrogen Evolution from Pt Nanoparticles Covered p-Type CdS:Cu Photocathode in Scavenger-Free Electrolyte. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2306-2311.	1.5	22
5536	Molecular Orientation and Site Dependent Charge Transfer Dynamics at PTCDA/TiO <sub>2</sub> (110) Interface Revealed by Resonant Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4160-4166.	1.5	28
5537	Enhancement of Optical and Electrochemical Properties via Bottom-Up Assembly of Binary Oligomer System. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9578-9587.	1.5	16
5538	Solar Hydrogen Generation by a CdS-Au-TiO <sub>2</sub> Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. <i>Journal of the American Chemical Society</i> , 2014, 136, 8438-8449.	6.6	533
5539	Observation and Alteration of Surface States of Hematite Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17054-17059.	1.5	90
5540	Impact of Plasma-Induced Surface Damage on the Photoelectrochemical Properties of GaN Pillars Fabricated by Dry Etching. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11261-11266.	1.5	12
5541	Fluorescent Ligands and Energy Transfer in Photoactive Ruthenium@Bipyridine Complexes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10416-10424.	1.1	13

#	ARTICLE	IF	CITATIONS
5542	One-Dimensional Titanium Dioxide Nanomaterials: Nanotubes. <i>Chemical Reviews</i> , 2014, 114, 9385-9454.	23.0	1,045
5543	Investigation of Arrays of Photosynthetically Active Heterostructures Using Conductive Probe Atomic Force Microscopy. <i>Nano Letters</i> , 2014, 14, 3328-3334.	4.5	13
5544	Highly luminescent two dimensional excitons in atomically thin CdSe nanosheets. <i>Applied Physics Letters</i> , 2014, 104, 182109.	1.5	10
5545	Design and Observation of Biphasic TiO <sub>2</sub> Crystal with Perfect Junction. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3162-3168.	2.1	33
5546	Study on the chemical stability of catalyst counter electrodes for dye-sensitized solar cells using a simple X-ray photoelectron spectroscopy-based method. <i>Journal of Power Sources</i> , 2014, 268, 25-36.	4.0	9
5547	Nanoporous hematite structures to overcome short diffusion lengths in water splitting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19999-20003.	5.2	76
5548	Ketonization of Carboxylic Acids in Biomass Conversion over TiO <sub>2</sub> and ZrO <sub>2</sub> Surfaces: A DFT Perspective. <i>ACS Catalysis</i> , 2014, 4, 2874-2888.	5.5	132
5549	Quasi-Solid Semi-Interpenetrating Polymer Networks as Electrolytes: Part I. Dependence of Physicochemical Characteristics and Ion Conduction Behavior on Matrix Composition, Cross-Link Density, Chain Length between Cross-Links, Molecular Entanglements, Charge Carrier Concentration, and Nature of Anion. <i>Journal of Physical Chemistry C</i> , 2014, 118, 159-174.	1.5	21
5550	Enhanced Visible Activities of Fe <sub>2</sub> O <sub>3</sub> by Coupling N-Doped Graphene and Mechanism Insight. <i>ACS Catalysis</i> , 2014, 4, 990-998.	5.5	132
5551	Bandgap-graded ZnO/(CdS) <sub>1-x</sub> (ZnS) <sub>x</sub> coaxial nanowire arrays for semiconductor-sensitized solar cells. <i>Materials Research Express</i> , 2014, 1, 015021.	0.8	4
5552	Direct Electroplated Metallization on Indium Tin Oxide Plastic Substrate. <i>Langmuir</i> , 2014, 30, 132-139.	1.6	14
5553	Photo-stable substituted dihydroindolo[2,3-b]carbazole-based organic dyes: tuning the photovoltaic properties by optimizing the structure for panchromatic DSSCs. <i>Tetrahedron</i> , 2014, 70, 8122-8128.	1.0	12
5554	Photophysical Properties of <i>cis</i> -Mo <sub>2</sub> Quadruply Bonded Complexes and Observation of Photoinduced Electron Transfer to Titanium Dioxide. <i>Journal of the American Chemical Society</i> , 2014, 136, 11428-11435.	6.6	12
5555	TiO <sub>2</sub> -Assisted Photoisomerization of Azo Dyes Using Self-Assembled Monolayers: Case Study on <i>para</i> -Methyl Red Towards Solar-Cell Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3742-3749.	4.0	43
5556	2D ZnIn <sub>2</sub> S <sub>4</sub> Nanosheet/1D TiO <sub>2</sub> Nanorod Heterostructure Arrays for Improved Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17200-17207.	4.0	302
5557	Fabrication of zinc oxide nanoneedles on conductive textile for harvesting piezoelectric potential. <i>Chemical Physics Letters</i> , 2014, 612, 62-67.	1.2	24
5558	Single Crystalline Hematite Films for Solar Water Splitting: Ti-Doping and Thickness Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3007-3014.	1.5	95
5559	Super-Resolution Mapping of Photogenerated Electron and Hole Separation in Single Metal-Semiconductor Nanocatalysts. <i>Journal of the American Chemical Society</i> , 2014, 136, 1398-1408.	6.6	141

#	ARTICLE	IF	CITATIONS
5560	Fabrication, modification, and biomedical applications of anodized TiO <sub>2</sub> nanotube arrays. RSC Advances, 2014, 4, 17300-17324.	1.7	124
5561	Acetonitrile Solution Effect on Ru N749 Dye Adsorption and Excitation at TiO <sub>2</sub> Anatase Interface. Journal of Physical Chemistry C, 2014, 118, 16863-16871.	1.5	14
5562	Relating structure and photoelectrochemical properties: electron injection by structurally and theoretically characterized transition metal-doped phenanthroline-polyoxotitanate nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 15792-15795.	1.3	35
5563	Spray deposited copper zinc tin sulphide (Cu <sub>2</sub> ZnSnS <sub>4</sub> ) film as a counter electrode in dye sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 23993-23999.	1.3	74
5564	A Bismuth Vanadate-Cuprous Oxide Tandem Cell for Overall Solar Water Splitting. Journal of Physical Chemistry C, 2014, 118, 16959-16966.	1.5	226
5565	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. Chemical Communications, 2014, 50, 2077-2088.	2.2	24
5566	TiO <sub>2</sub> compact layer for dye-sensitized SnO <sub>2</sub> nanocrystalline thin film. Electrochimica Acta, 2014, 147, 366-370.	2.6	29
5567	CO <sub>2</sub> Reduction to Methanol on TiO <sub>2</sub> -Passivated GaP Photocatalysts. ACS Catalysis, 2014, 4, 3512-3516.	5.5	130
5568	Kinetics of the Regeneration by Iodide of Dye Sensitizers Adsorbed on Mesoporous Titania. Journal of Physical Chemistry C, 2014, 118, 17108-17115.	1.5	26
5569	Design, synthesis and photophysical studies of dipyrromethene-based materials: insights into their applications in organic photovoltaic devices. Chemical Society Reviews, 2014, 43, 3342-3405.	18.7	472
5570	Modulating triphenylamine-based organic dyes for their potential application in dye-sensitized solar cells: a first principle theoretical study. Physical Chemistry Chemical Physics, 2014, 16, 25280-25287.	1.3	38
5571	Energetics and efficiency analysis of a cobaloxime-modified semiconductor under simulated air mass 1.5 illumination. Physical Chemistry Chemical Physics, 2014, 16, 15818-15824.	1.3	50
5572	Intrinsic energy band alignment of functional oxides. Physica Status Solidi - Rapid Research Letters, 2014, 8, 571-576.	1.2	60
5573	Heterogeneous Photocatalysis. , 2014, , 135-170.		13
5574	Surface Passivation of TiO <sub>2</sub> Nanowires Using a Facile Precursor-Treatment Approach for Photoelectrochemical Water Oxidation. Journal of Physical Chemistry C, 2014, 118, 15086-15094.	1.5	80
5575	High-Performance Cobalt Selenide and Nickel Selenide Nanocomposite Counter Electrode for Both Iodide/Triiodide and Cobalt(II/III) Redox Couples in Dye-Sensitized Solar Cells. Chinese Journal of Chemistry, 2014, 32, 491-497.	2.6	31
5576	Using Molecular Design to Control the Performance of Hydrogen-Producing Polymer-Brush-Modified Photocathodes. Journal of Physical Chemistry Letters, 2014, 5, 3222-3226.	2.1	52
5577	Hematite photo-electrodes with multiple ultrathin SiO <sub>x</sub> interlayers towards enhanced photoelectrochemical properties. Electrochemistry Communications, 2014, 48, 17-20.	2.3	4

#	ARTICLE	IF	CITATIONS
5578	Titanium <sup>IV</sup> Oxo Cluster with 9-Anthracenecarboxylate Antennae: A Fluorescent and Photocurrent Transfer Material. <i>Inorganic Chemistry</i> , 2014, 53, 7233-7240.	1.9	59
5579	Quantum Dot-Sensitized Hierarchical Micro/Nanowire Architecture for Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2014, 8, 7163-7169.	7.3	78
5580	Utilization of electrochemical impedance spectroscopy for experimental characterization of the diode features of charge recombination in a dye sensitized solar cell. <i>Electrochimica Acta</i> , 2014, 148, 62-72.	2.6	10
5581	Energy level alignment in TiO <sub>2</sub> /metal sulfide/polymer interfaces for solar cell applications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17099-17107.	1.3	11
5582	Hydrated Manganese(II) Phosphate (Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ·3H <sub>2</sub> O) as a Water Oxidation Catalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 7435-7443.	6.6	324
5583	Investigation of diamond electrodes for photoelectrochemistry. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2333-2338.	0.8	9
5584	A Facile Approach to Construct Multiple Structured ZnO Crystals by Trisodium Citrate-Assisted Hydrothermal Growth Toward Performance Enhancement of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16401-16407.	1.5	31
5585	Synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> film by air-stable molecular-precursor ink for constructing thin film solar cells. <i>RSC Advances</i> , 2014, 4, 36046.	1.7	9
5586	Assessing the Performance of Dispersionless and Dispersion-Accounting Methods: Helium Interaction with Cluster Models of the TiO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6367-6384.	1.1	30
5587	Band Structure Engineering of ZnO by Anion Cation Co-Doping for Enhanced Photoelectrochemical Activity. <i>ChemPhysChem</i> , 2014, 15, 1611-1618.	1.0	29
5588	In situ growth of novel laminar-shaped Co <sub>3</sub> S <sub>4</sub> as an efficient counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 42917-42923.	1.7	28
5589	CdS quantum dot sensitized anatase TiO <sub>2</sub> hierarchical nanostructures for photovoltaic application. <i>CrystEngComm</i> , 2014, 16, 3403.	1.3	35
5590	A hematite photoanode with gradient structure shows an unprecedentedly low onset potential for photoelectrochemical water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23544-23548.	1.3	41
5592	Photoelectrodes Based upon Mo:BiVO <sub>4</sub> Inverse Opals for Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2014, 8, 7088-7098.	7.3	289
5593	Carbon Dot Loading and TiO <sub>2</sub> Nanorod Length Dependence of Photoelectrochemical Properties in Carbon Dot/TiO <sub>2</sub> Nanorod Array Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4883-4890.	4.0	169
5594	Plasmonic enhancement of the performance of dye-sensitized solar cell by core-shell AuNRs@SiO <sub>2</sub> in composite photoanode. <i>Journal of Power Sources</i> , 2014, 272, 1100-1105.	4.0	25
5595	Mesoporous Bi <sub>2</sub> S <sub>3</sub> nanorods with graphene-assistance as low-cost counter-electrode materials in dye-sensitized solar cells. <i>Nanoscale</i> , 2014, 6, 14433-14440.	2.8	39
5596	Dry-Processable Carbon Nanotubes for Functional Devices and Composites. <i>Small</i> , 2014, 10, 4606-4625.	5.2	61

#	ARTICLE	IF	CITATIONS
5597	Uniformly dispersed CdS/CdSe quantum dots co-sensitized TiO <sub>2</sub> nanotube arrays with high photocatalytic property under visible light. <i>Materials Letters</i> , 2014, 132, 231-235.	1.3	18
5598	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. <i>Journal of Power Sources</i> , 2014, 268, 882-886.	4.0	25
5599	Multiwalled carbon nanotube thin films prepared by aerosol deposition process for use as highly efficient Pt-free counter electrodes of dye-sensitized solar cells. <i>Solar Energy</i> , 2014, 107, 660-667.	2.9	17
5600	Preparation and Characterization of Squaraine Dyes containing Mono- and Bis-Anchoring Groups as the Light Absorber in Dye Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 138, 148-154.	2.6	16
5601	Theoretical screening of novel alkyne bridged zinc porphyrins as sensitizer candidates for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 514-520.	2.0	4
5602	Leaf extract mediated green synthesis of silver nanoparticles from widely available Indian plants: synthesis, characterization, antimicrobial property and toxicity analysis. <i>Bioresources and Bioprocessing</i> , 2014, 1, .	2.0	425
5603	Influence of the Photoreactor Configuration and of Different Light Sources in the Photocatalytic Treatment of Highly Polluted Wastewater. <i>International Journal of Chemical Reactor Engineering</i> , 2014, 12, 63-75.	0.6	39
5604	Pt-Free Counter Electrode for Dye-Sensitized Solar Cells with High Efficiency. <i>Advanced Materials</i> , 2014, 26, 6210-6237.	11.1	521
5605	Closely packed dense network rutile nanorods with gadolinium for efficient dye sensitized solar cells. <i>Applied Surface Science</i> , 2014, 313, 858-863.	3.1	10
5606	Theoretical investigation of novel phenothiazine-based D-π-A conjugated organic dyes as dye-sensitizer in dye-sensitized solar cells. <i>Computational and Theoretical Chemistry</i> , 2014, 1045, 145-153.	1.1	19
5607	The structure and photovoltaic properties of double-shell TiO <sub>2</sub> /ZnSe/CdSe nanocable arrays synthesized by using TiO <sub>2</sub> /ZnO nanocables template. <i>Materials Research Bulletin</i> , 2014, 59, 234-240.	2.7	14
5608	Nanostructured hydrotreating catalysts for electrochemical hydrogen evolution. <i>Chemical Society Reviews</i> , 2014, 43, 6555.	18.7	2,037
5609	Optically transparent hydrogen evolution catalysts made from networks of copper-platinum core-shell nanowires. <i>Energy and Environmental Science</i> , 2014, 7, 1461-1467.	15.6	74
5610	Hydrothermal Synthesis of Novel ZnO Nanomushrooms for Improving the Solar Cells Performance. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 755-759.	1.1	14
5611	Molecular Engineering of 2-Quinolinone Based Anchoring Groups for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16896-16903.	1.5	41
5612	An overview on the spectrum of sensitizers: The heart of Dye Sensitized Solar Cells. <i>Solar Energy</i> , 2014, 108, 479-507.	2.9	73
5613	Hydrothermal synthesis of TiO <sub>2</sub> nanotubes and their application as an over-layer for dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 23223.	1.7	68
5614	Ionic Liquid Assisted Chemical Strategy to TiO <sub>2</sub> Hollow Nanocube Assemblies with Surface-Fluorination and Nitridation and High Energy Crystal Facet Exposure for Enhanced Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10283-10295.	4.0	35



#	ARTICLE	IF	CITATIONS
5615	Theoretical Studies on the Interaction of Ruthenium Sensitizers and Redox Couple in Different Deprotonation Situations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2244-2252.	1.1	12
5616	High efficiency inverted polymer solar cells with room-temperature titanium oxide/polyethylenimine films as electron transport layers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17281-17285.	5.2	66
5617	Morphology control of one-dimensional heterojunctions for highly efficient photoanodes used for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11408.	5.2	52
5618	The light and shade of perovskite solar cells. <i>Nature Materials</i> , 2014, 13, 838-842.	13.3	1,877
5619	Dye-sensitized solar cells based on TiO <sub>2</sub> nanoparticles/nanobelts double-layered film with improved photovoltaic performance. <i>Applied Surface Science</i> , 2014, 319, 75-82.	3.1	78
5620	Influence of compact TiO <sub>2</sub> layer on the photovoltaic characteristics of the organometal halide perovskite-based solar cells. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 569-576.	1.9	29
5621	High-Performance Photoelectrochemical Cells Based on a Binuclear Ruthenium Catalyst for Visible-Light-Driven Water Oxidation. <i>ChemSusChem</i> , 2014, 7, 2801-2804.	3.6	79
5622	Multi-Branched Multi-Anchoring Metal-Free Dyes for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7069-7086.	1.2	109
5623	Spectroscopic ellipsometry characterization of amorphous and crystalline TiO <sub>2</sub> thin films grown by atomic layer deposition at different temperatures. <i>Applied Surface Science</i> , 2014, 315, 116-123.	3.1	62
5624	Counter electrodes from binary ruthenium selenide alloys for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 271, 108-113.	4.0	32
5625	Sandwich SrTiO <sub>3</sub> /TiO <sub>2</sub> /H-Titanate nanofiber composite photocatalysts for efficient photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2014, 315, 314-322.	3.1	27
5626	Influence of Ionic Liquid on Recombination and Regeneration Kinetics in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17153-17159.	1.5	18
5627	Self-powered ion detectors based on dye-sensitized photovoltaics. <i>Nanoscale</i> , 2014, 6, 11019-11023.	2.8	2
5628	Structural and photoelectrochemical properties of porous TiO <sub>2</sub> nanofibers decorated with Fe <sub>2</sub> O <sub>3</sub> by sol-flame. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	24
5629	Impact of annealing on spiro-OMeTAD and corresponding solid-state dye sensitized solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2809-2816.	0.8	41
5630	Photoelectrochemical Behavior of Hierarchically Structured Si/WO <sub>3</sub> Core-Shell Tandem Photoanodes. <i>Nano Letters</i> , 2014, 14, 2310-2317.	4.5	78
5631	Photovoltaic performance of dye-sensitized solar cells assembled with electrospun polyacrylonitrile/silica-based fibrous composite membranes. <i>Electrochimica Acta</i> , 2014, 142, 261-267.	2.6	27
5632	Hierarchical Core-Shell Carbon Nanofiber@ZnIn <sub>2</sub> S <sub>4</sub> Composites for Enhanced Hydrogen Evolution Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13841-13849.	4.0	179

#	ARTICLE	IF	CITATIONS
5633	Star-shaped hole transporting materials with a triazine unit for efficient perovskite solar cells. <i>Chemical Communications</i> , 2014, 50, 10971-10974.	2.2	144
5634	Synthesis of hierarchical TiO <sub>2</sub> flower-rod and application in CdSe/CdS co-sensitized solar cell. <i>Journal of Power Sources</i> , 2014, 270, 42-52.	4.0	32
5635	Cadmium sulfide quantum dots sensitized tin dioxide/titanium dioxide heterojunction for efficient photoelectrochemical hydrogen production. <i>Journal of Power Sources</i> , 2014, 269, 866-872.	4.0	20
5636	In Situ Electrical Characterization of Anatase TiO <sub>2</sub> Quantum Dots. <i>Advanced Functional Materials</i> , 2014, 24, 4952-4958.	7.8	14
5637	A review on materials for light scattering in dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 17615-17638.	1.7	127
5638	Facile synthesis of luminescent TiO <sub>2</sub> nanorods using an anionic surfactant: Their photosensitization and photocatalytic efficiency. <i>Materials Chemistry and Physics</i> , 2014, 147, 761-771.	2.0	10
5639	Thermally grown oxide films and corrosion performance of ferritic stainless steels under simulated exhaust gas condensate conditions. <i>Corrosion Science</i> , 2014, 87, 344-365.	3.0	41
5640	Theoretical characterization of highly efficient porphyrin dye sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	10
5641	A novel metal-organic gel based electrolyte for efficient quasi-solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15406.	5.2	45
5642	Rate limiting interfacial hole transfer in Sb <sub>2</sub> S <sub>3</sub> solid-state solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1148-1158.	15.6	97
5643	Hierarchically Porous Titania Networks with Tunable Anatase:Rutile Ratios and Their Enhanced Photocatalytic Activities. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13129-13137.	4.0	73
5644	Enhanced Near-Infrared to Visible Upconversion Nanoparticles of Ho <sup>3+</sup> -Yb <sup>3+</sup> -F <sup>3+</sup> Tri-Doped TiO <sub>2</sub> and Its Application in Dye-Sensitized Solar Cells with 37% Improvement in Power Conversion Efficiency. <i>Inorganic Chemistry</i> , 2014, 53, 8045-8053.	1.9	71
5645	Controlling Surface Defects and Photophysics in TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10631-10638.	1.1	36
5646	Large-Area Ordered P-type Si Nanowire Arrays as Photocathode for Highly Efficient Photoelectrochemical Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12111-12118.	4.0	44
5647	Quasi-Solid Semi-Interpenetrating Polymer Networks as Electrolytes: Part II. Assessing the Modes of Ion-Ion and Ion-Polymer Interactions Employing Mid-Fourier Transform Infrared Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10640-10650.	1.5	18
5648	Organic Dyes Containing Carbazole as Donor and Ñ-Linker: Optical, Electrochemical, and Photovoltaic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2528-2539.	4.0	170
5649	Enhancing visible-light photoelectrochemical water splitting through transition-metal doped TiO <sub>2</sub> nanorod arrays. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17820-17827.	5.2	157
5650	Interfacial Structure of Soft Matter Probed by SFG Spectroscopy. <i>Chemical Record</i> , 2014, 14, 791-805.	2.9	31

#	ARTICLE	IF	CITATIONS
5651	Earth-abundant inorganic electrocatalysts and their nanostructures for energy conversion applications. <i>Energy and Environmental Science</i> , 2014, 7, 3519-3542.	15.6	1,151
5652	First-Principles Study of Lead Iodide Perovskite Tetragonal and Orthorhombic Phases for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19565-19571.	1.5	220
5653	SYNTHESIS, CHARACTERISTICS AND APPLICATIONS OF $\text{ZnO}$ NANOWIRES IN DYE-SENSITIZED SOLAR CELLS VIA WATER BATH METHOD. <i>Nano</i> , 2014, 09, 1450061.	0.5	1
5654	Materials and Processes for Solar Fuel Production. <i>Nanostructure Science and Technology</i> , 2014, , .	0.1	9
5655	Double-Deck Inverse Opal Photoanodes: Efficient Light Absorption and Charge Separation in Heterojunction. <i>Chemistry of Materials</i> , 2014, 26, 5592-5597.	3.2	88
5656	One-dimensional nanostructure based materials for versatile photocatalytic applications. <i>RSC Advances</i> , 2014, 4, 12685.	1.7	205
5657	Band Structure Tuning of $\text{TiO}_2$ for Enhanced Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7451-7457.	1.5	95
5658	Nanogold plasmonic photocatalysis for organic synthesis and clean energy conversion. <i>Chemical Society Reviews</i> , 2014, 43, 7188-7216.	18.7	508
5659	High Temperature Electrolysis in Alkaline Cells, Solid Proton Conducting Cells, and Solid Oxide Cells. <i>Chemical Reviews</i> , 2014, 114, 10697-10734.	23.0	459
5660	Probing the Optical Property and Electronic Structure of $\text{TiO}_2$ Nanomaterials for Renewable Energy Applications. <i>Chemical Reviews</i> , 2014, 114, 9662-9707.	23.0	422
5661	ZnO thin films, surface embedded with biologically derived Ag/Au nanoparticles, for efficient photoelectrochemical splitting of water. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18216-18229.	3.8	34
5662	Design of $\text{D}\pi\text{A}\pi\text{A}'\pi\text{A}$ organic dyes with different acceptor and auxiliary acceptor for highly efficient dye-sensitized solar cells: a computational study. <i>RSC Advances</i> , 2014, 4, 50338-50350.	1.7	43
5663	High performance polyvinyl alcohol/multi walled carbon nanotube/polyaniline hydrogel (PVA/MWCNT/PAni) based dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 146, 106-111.	2.6	50
5664	Aligned $\text{Fe}_2\text{TiO}_5$ -containing nanotube arrays with low onset potential for visible-light water oxidation. <i>Nature Communications</i> , 2014, 5, 5122.	5.8	161
5665	Alloyed Copper Chalcogenide Nanoplatelets <i>via</i> Partial Cation Exchange Reactions. <i>ACS Nano</i> , 2014, 8, 8407-8418.	7.3	123
5666	Functional tuning of phenothiazine-based dyes by a benzimidazole auxiliary chromophore: an account of optical and photovoltaic studies. <i>RSC Advances</i> , 2014, 4, 53588-53601.	1.7	35
5667	Smart self-cleaning coatings for corrosion protection. , 2014, , 489-509.		4
5668	Titanium Dioxide (Anatase and Rutile): Surface Chemistry, Liquid-Solid Interface Chemistry, and Scientific Synthesis of Supported Catalysts. <i>Chemical Reviews</i> , 2014, 114, 9754-9823.	23.0	295

#	ARTICLE	IF	CITATIONS
5669	A substoichiometric tungsten oxide catalyst provides a sustainable and efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 145, 27-33.	2.6	39
5670	Thermodynamically Driven One-Dimensional Evolution of Anatase TiO <sub>2</sub> Nanorods: One-Step Hydrothermal Synthesis for Emerging Intrinsic Superiority of Dimensionality. <i>Journal of the American Chemical Society</i> , 2014, 136, 15310-15318.	6.6	53
5671	Enhanced dye-sensitized solar cells performance using anatase TiO <sub>2</sub> mesocrystals with the Wulff construction of nearly 100% exposed {101} facets as effective light scattering layer. <i>Dalton Transactions</i> , 2014, 43, 4711.	1.6	30
5672	Polymer electrolyte for photoelectrochemical cell and dye-sensitized solar cell: a brief review. <i>Ionics</i> , 2014, 20, 1201-1205.	1.2	16
5673	Preparation and photocatalytic application of high temperature stabilized ZrSiO <sub>4</sub> @TiO <sub>2</sub> hybrid nanostructure. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 643-646.	0.4	1
5674	Energy harvesting for the implantable biomedical devices: issues and challenges. <i>BioMedical Engineering OnLine</i> , 2014, 13, 79.	1.3	233
5675	Improving the performance of dye-sensitized solar cells with TiO <sub>2</sub> /graphene/TiO <sub>2</sub> sandwich structure. <i>Nanoscale Research Letters</i> , 2014, 9, 380.	3.1	35
5676	Cobalt-Oxide-Based Materials as Water Oxidation Catalyst: Recent Progress and Challenges. <i>ACS Catalysis</i> , 2014, 4, 3701-3714.	5.5	451
5677	Theoretical designing of novel heterocyclic azo dyes for dye sensitized solar cells. <i>Journal of Computational Electronics</i> , 2014, 13, 1033-1041.	1.3	77
5678	Influence of external electric fields on oxygen vacancies at the anatase (101) surface. <i>Journal of Chemical Physics</i> , 2014, 141, 084705.	1.2	22
5679	Deposition of cadmium selenide semiconductor nanostructures on TiO <sub>2</sub> surface via different chemical methods and investigation of their effects on dye sensitized solar cell efficiency. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 619-633.	1.9	11
5680	Titanium Carbide and Titanium Nitride-Based Nanocomposites as Efficient Catalysts for the Co <sup>2+</sup> /Co <sup>3+</sup> Redox Couple in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16818-16824.	1.5	41
5681	The Role of Insulating Oxides in Blocking the Charge Carrier Recombination in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 1615-1623.	7.8	99
5682	Optics-electrics highways: Plasmonic silver nanowires@TiO <sub>2</sub> core-shell nanocomposites for enhanced dye-sensitized solar cells performance. <i>Nano Energy</i> , 2014, 10, 181-191.	8.2	67
5683	Copper modified-TiO <sub>2</sub> catalysts for hydrogen generation through photoreforming of organics. A short review. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16812-16831.	3.8	115
5684	Integrating a redox-coupled dye-sensitized photoelectrode into a lithium-oxygen battery for photoassisted charging. <i>Nature Communications</i> , 2014, 5, 5111.	5.8	236
5685	Theoretical Insights into the Mechanism of Water Oxidation on Nonstoichiometric and Titanium-Doped Fe <sub>2</sub> O <sub>3</sub> (0001). <i>Journal of Physical Chemistry C</i> , 2014, 118, 23162-23167.	1.5	52
5686	Ultrafast Carrier Trapping of a Metal-Doped Titanium Dioxide Semiconductor Revealed by Femtosecond Transient Absorption Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10022-10027.	4.0	32

#	ARTICLE	IF	CITATIONS
5687	Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Nanolaminate Thin Film Encapsulation for Organic Thin Film Transistors via Plasma-Enhanced Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2014, 6, 6731-6738.	4.0	180
5688	Improved Visible Light Harvesting of WO <sub>3</sub> by Incorporation of Sulfur or Iodine: A Tale of Two Impurities. Chemistry of Materials, 2014, 26, 1670-1677.	3.2	83
5689	Water photolysis at 12.3% efficiency via perovskite photovoltaics and Earth-abundant catalysts. Science, 2014, 345, 1593-1596.	6.0	2,260
5690	Continuous flame synthesis of near surface nitrogen doped TiO <sub>2</sub> for dye-sensitized solar cells. Chemical Engineering Journal, 2014, 258, 163-170.	6.6	26
5691	Synergistic geometric and electronic effects for electrochemical reduction of carbon dioxide using gold-copper bimetallic nanoparticles. Nature Communications, 2014, 5, 4948.	5.8	1,062
5692	Dynamics of photogenerated holes in undoped BiVO <sub>4</sub> photoanodes for solar water oxidation. Chemical Science, 2014, 5, 2964-2973.	3.7	317
5693	Infrared-driven unimolecular reaction of CH <sub>3</sub> CHOO Criegee intermediates to OH radical products. Science, 2014, 345, 1596-1598.	6.0	125
5694	Photo-Ionic Cells: Two Solutions to Store Solar Energy and Generate Electricity on Demand. Journal of Physical Chemistry C, 2014, 118, 16872-16883.	1.5	13
5695	Novel 4- $\epsilon^2$ -functionalized 4,4'-dicarboxyterpyridine ligands for ruthenium complexes: near-IR sensitization in dye sensitized solar cells. Dalton Transactions, 2014, 43, 14992-15003.	1.6	13
5696	Efficient sinter-free nanostructure Pt counter electrode for dye-sensitized solar cells. Journal of Materials Chemistry C, 2014, 2, 8497-8500.	2.7	24
5697	Perovskite photovoltaics: a high-efficiency newcomer to the solar cell family. Nanoscale, 2014, 6, 12287-12297.	2.8	120
5698	Role of oxygen impurity on the mechanical stability and atomic cohesion of Ta <sub>3</sub> N <sub>5</sub> semiconductor photocatalyst. Physical Chemistry Chemical Physics, 2014, 16, 15375-15380.	1.3	37
5699	Organic Dyes with Hydrazone Moieties: A Study of Correlation between Structure and Performance in the Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 7832-7843.	1.5	16
5700	DFT and TD-DFT studies on osmacycle dyes with tunable photoelectronic properties for solar cells. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	9
5701	Investigation of multilayered quantum dot-sensitized solar cells with different Zn chalcogenide passivation layers. Journal of Applied Electrochemistry, 2014, 44, 977-988.	1.5	5
5702	Efficiency enhancement of dye-sensitized solar cells with PAN:Cs:Lil quasi-solid state (gel) electrolytes. Journal of Applied Electrochemistry, 2014, 44, 917-926.	1.5	22
5703	Covalent multi-component systems of polyoxometalates and metal complexes: Toward multi-functional organic-inorganic hybrids in molecular and material sciences. Coordination Chemistry Reviews, 2014, 281, 64-85.	9.5	155
5704	A one-pot route to prepare class II hybrid ionogel electrolytes. New Journal of Chemistry, 2014, 38, 2008-2015.	1.4	13

#	ARTICLE	IF	CITATIONS
5705	Nanohybrids of quantum dots and cytochrome P450 for light-driven drug metabolism. <i>Journal of Electroanalytical Chemistry</i> , 2014, 733, 27-32.	1.9	22
5706	Iron Pyrite Thin Film Counter Electrodes for Dye-Sensitized Solar Cells: High Efficiency for Iodine and Cobalt Redox Electrolyte Cells. <i>ACS Nano</i> , 2014, 8, 10597-10605.	7.3	138
5707	Recent advances in multifunctional nanocarbons used in dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 1281.	15.6	83
5708	Three Dimensional Indium-Tin-Oxide Nanorod Array for Charge Collection in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17713-17722.	4.0	16
5709	A novel strategy to prepare a Pt-SnO <sub>2</sub> nanocomposite as a highly efficient counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17253-17257.	5.2	30
5710	Photoexcited Hole Transfer to a MnOx Cocatalyst on a SrTiO <sub>3</sub> Photoelectrode during Oxygen Evolution Studied by In Situ X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24302-24309.	1.5	42
5711	Stabilization of Ruthenium(II) Polypyridyl Chromophores on Nanoparticle Metal-Oxide Electrodes in Water by Hydrophobic PMMA Overlayers. <i>Journal of the American Chemical Society</i> , 2014, 136, 13514-13517.	6.6	70
5712	Mn <sub>3</sub> O <sub>4</sub> /graphene composite as counter electrode in dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 15091.	1.7	50
5713	Fully Solution-Processed Transparent Conducting Oxide-Free Counter Electrodes for Dye-Sensitized Solar Cells: Spray-Coated Single-Wall Carbon Nanotube Thin Films Loaded with Chemically-Reduced Platinum Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13430-13437.	4.0	10
5714	Efficient Copper Mediators Based on Bulky Asymmetric Phenanthrolines for DSSCs. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13945-13955.	4.0	53
5715	Two-Step Electrochemical Synthesis of Polypyrrole/Reduced Graphene Oxide Composites as Efficient Pt-Free Counter Electrode for Plastic Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16249-16256.	4.0	59
5716	Photovoltaic effect of TiO <sub>2</sub> thick films with an ultrathin BiFeO <sub>3</sub> as buffer layer. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1301-1306.	1.1	4
5717	Enhanced photovoltaic performance of solar cell based on front-side illuminated CdSe/CdS double-sensitized TiO <sub>2</sub> nanotube arrays electrode. <i>Journal of Materials Science</i> , 2014, 49, 6392-6403.	1.7	16
5718	TiO <sub>2</sub> inverse opal based CdS/CdSe quantum dot co-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3039-3043.	1.1	15
5719	Photoelectrochemical studies on spray deposited copper selenide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 3096-3102.	1.1	8
5720	Photoinduced Electron Transfer Reactions of Ruthenium(II)-Complexes Containing Amino Acid with Quinones. <i>Journal of Fluorescence</i> , 2014, 24, 875-884.	1.3	5
5721	Effect of open- and close-ended TiO <sub>2</sub> nanotube arrays on transparent conducting substrates for dye-sensitized solar cells application. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	3
5722	Low-Cost Nanomaterials for Photoelectrochemical Water Splitting. <i>Green Energy and Technology</i> , 2014, , 267-295.	0.4	4

#	ARTICLE	IF	CITATIONS
5723	Design, Fabrication, and Modification of Cost-Effective Nanostructured TiO <sub>2</sub> for Solar Energy Applications. <i>Green Energy and Technology</i> , 2014, , 9-54.	0.4	3
5724	CdSe quantum dots sensitized nanoporous hematite for photoelectrochemical generation of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11860-11866.	3.8	26
5725	Nanostructured Nitrogen Doping TiO <sub>2</sub> Nanomaterials for Photoanodes of Dye-Sensitized Solar Cells. <i>Green Energy and Technology</i> , 2014, , 55-75.	0.4	1
5726	Mechanism and active site of photocatalytic water splitting on titania in aqueous surroundings. <i>Chemical Science</i> , 2014, 5, 2256-2264.	3.7	91
5727	In Situ Synthesis of NiS Nanowall Networks on Ni Foam as a TCO-Free Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5525-5530.	4.0	96
5728	Adsorption of Dopamine on Rutile TiO <sub>2</sub> (110): A Photoemission and Near-Edge X-ray Absorption Fine Structure Study. <i>Langmuir</i> , 2014, 30, 8761-8769.	1.6	18
5729	Development of flagella bio-templated nanomaterials for electronics. <i>Nano Convergence</i> , 2014, 1, 10.	6.3	14
5730	Enhanced performance of dye co-sensitized solar cells by panchromatic light harvesting. <i>Journal of the Korean Physical Society</i> , 2014, 64, 904-909.	0.3	9
5731	ORAC and VIS spectroscopy as a guideline for unmodified red "purple natural dyes selection in dye-sensitized solar cells. <i>Solar Energy</i> , 2014, 107, 38-43.	2.9	15
5732	Hybrid exchange density functional study of vicinal anatase TiO <sub>2</sub> surfaces. <i>Physical Review B</i> , 2014, 89, .	1.1	15
5733	One-Dimensional Titanium Dioxide Nanomaterials: Nanowires, Nanorods, and Nanobelts. <i>Chemical Reviews</i> , 2014, 114, 9346-9384.	23.0	601
5734	DFT/TDDFT Study of the Adsorption of N3 and N719 Dyes on ZnO(101̄...0) Surfaces. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5885-5893.	1.1	20
5735	Titanium Dioxide Crystals with Tailored Facets. <i>Chemical Reviews</i> , 2014, 114, 9559-9612.	23.0	922
5736	Theoretical Studies on Anatase and Less Common TiO <sub>2</sub> Phases: Bulk, Surfaces, and Nanomaterials. <i>Chemical Reviews</i> , 2014, 114, 9708-9753.	23.0	367
5737	The Active Layer Morphology of Organic Solar Cells Probed with Grazing Incidence Scattering Techniques. <i>Advanced Materials</i> , 2014, 26, 7692-7709.	11.1	555
5738	Catalytic oxidation of formaldehyde on surface of HTiO <sub>2</sub> /HCTiO <sub>2</sub> without light illumination at room temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 490-498.	10.8	106
5739	Nanobiohybrid structures based on the organized films of photosensitive membrane proteins. <i>Russian Chemical Reviews</i> , 2014, 83, 38-81.	2.5	10
5740	High catalytic activity and stability of nickel sulfide and cobalt sulfide hierarchical nanospheres on the counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 4824-4826.	2.2	90

#	ARTICLE	IF	CITATIONS
5741	Influence of carbon nanotube wall thickness on performance of dye sensitized solar cell with hierarchical porous photoanode. <i>Microporous and Mesoporous Materials</i> , 2014, 191, 74-81.	2.2	19
5742	Single-Crystalline Tungsten Oxide Quantum Dots for Fast Pseudocapacitor and Electrochromic Applications. <i>Advanced Materials</i> , 2014, 26, 4260-4267.	11.1	350
5743	Photovoltaic devices in hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14166-14171.	3.8	15
5744	Synthesis and characterization of TiO <sub>2</sub> nanoparticles by using new shape controllers and its application in dye sensitized solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4039-4044.	2.9	23
5745	Low temperature fabrication of high performance p-n junction on the Ti foil for use in large-area flexible dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 117, 1-8.	2.6	12
5746	Electronics, Vacancies, Optical Properties, and Band Engineering of Red Photocatalyst SrNbO <sub>3</sub> : A Computational Investigation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11267-11270.	1.5	9
5747	Recent advances in the use of metal oxide-based photocathodes for solar fuel production. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	47
5748	Enhanced photoelectrochemical property of gold nanoparticle sensitized TiO <sub>2</sub> nanotube: A crucial investigation at electrode-electrolyte interface. <i>Journal of Electroanalytical Chemistry</i> , 2014, 727, 99-103.	1.9	15
5749	Highly conjugated electron rich thiophene antennas on phenothiazine and phenoxazine-based sensitizers for dye sensitized solar cells. <i>Synthetic Metals</i> , 2014, 195, 208-216.	2.1	36
5750	All-Nanoparticle Self-assembly ZnO/TiO <sub>2</sub> Heterojunction Thin Films with Remarkably Enhanced Photoelectrochemical Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5719-5725.	4.0	49
5751	Introducing manganese complexes as redox mediators for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12021.	1.3	45
5752	Panchromatic Donor-Acceptor Donor Conjugated Oligomers for Dye-Sensitized Solar Cell Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8715-8722.	4.0	59
5753	Template-Free Synthesis of Hematite Photoanodes with Nanostructured ATO Conductive Underlayer for PEC Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 36-40.	4.0	31
5754	Origin of High Photocatalytic Properties in the Mixed-Phase TiO <sub>2</sub> : A First-Principles Theoretical Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12885-12892.	4.0	81
5755	Noncontact Free-Rotating Disk Triboelectric Nanogenerator as a Sustainable Energy Harvester and Self-Powered Mechanical Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3031-3038.	4.0	217
5756	Highly Durable and Efficient Quantum Dot-Sensitized Solar Cells Based on Oligomer Gel Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11245-11253.	4.0	51
5757	Novel V <sub>2</sub> O <sub>5</sub> /BiVO <sub>4</sub> /TiO <sub>2</sub> Nanocomposites with High Visible-Light-Induced Photocatalytic Activity for the Degradation of Toluene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10113-10121.	1.5	184
5758	Thermal Decomposition Approach for the Formation of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Mesoporous Photoanodes and an $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /CoO Hybrid Structure for Enhanced Water Oxidation. <i>Inorganic Chemistry</i> , 2014, 53, 2304-2309.	1.9	30



#	ARTICLE	IF	CITATIONS
5759	The production of cobalt sulfide/graphene composite for use as a low-cost counter-electrode material in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 269, 473-478.	4.0	51
5760	Investigation of DC magnetron-sputtered TiO <sub>2</sub> coatings: Effect of coating thickness, structure, and morphology on photocatalytic activity. <i>Applied Surface Science</i> , 2014, 313, 677-686.	3.1	32
5761	Cathodic shift of onset potential for water oxidation on a Ti <sup>4+</sup> -doped Fe <sub>2</sub> O <sub>3</sub> photoanode by suppressing the back reaction. <i>Energy and Environmental Science</i> , 2014, 7, 752-759.	15.6	228
5762	Solar-driven hydrogen evolution using a CuInS <sub>2</sub> /CdS/ZnO heterostructure nanowire array as an efficient photoanode. <i>Nanoscale</i> , 2014, 6, 8914.	2.8	48
5763	Adapting Ruthenium Sensitizers to Cobalt Electrolyte Systems. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 501-505.	2.1	15
5764	Efficient quasi-solid-state dye-sensitized solar cells from graphene incorporated conducting gel electrolytes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2814.	5.2	60
5765	Fabrication of TiO <sub>2</sub> -BiOCl double-layer nanostructure arrays for photoelectrochemical water splitting. <i>CrystEngComm</i> , 2014, 16, 820-825.	1.3	54
5766	Structure of a Water Monolayer on the Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 121-126.	1.2	12
5767	Photovoltaic Characteristics of Solar Cells Based on Nanostructured Titanium Dioxide Sensitized with Fluorescein Sodium Salt. <i>Theoretical and Experimental Chemistry</i> , 2014, 50, 121-126.	0.2	9
5768	Theoretical studies of structures and spectroscopic properties of [(tpy)(bpy)RuCâ% <sub>i</sub> CC6H4R] <sup>+</sup> (tpy =) <i>Theoretical and Experimental Chemistry</i> , 2014, 57, 725-733.	2.0	1
5769	Nanostructured SnO <sub>2</sub> photoanode-based dye-sensitized solar cells. <i>Science Bulletin</i> , 2014, 59, 2122-2134.	1.7	22
5770	Recent progress in thermoelectric materials. <i>Science Bulletin</i> , 2014, 59, 2073-2091.	1.7	113
5771	Effect of hexamethylenetetramines (HMT) surfactant concentration on the performance of TiO <sub>2</sub> nanostructure photoelectrochemical cells. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 974-980.	0.3	10
5772	A novel hierarchical Pt- and FTO-free counter electrode for dye-sensitized solar cell. <i>Nanoscale Research Letters</i> , 2014, 9, 202.	3.1	15
5773	Gold-silicon nanofiber synthesized by femtosecond laser radiation for enhanced light absorbance. <i>Nanoscale Research Letters</i> , 2014, 9, 255.	3.1	0
5774	Microwave-induced fast crystallization of amorphous hierarchical anatase microspheres. <i>Nanoscale Research Letters</i> , 2014, 9, 273.	3.1	12
5776	Highly Conductive and Low Cost Ni-PET Flexible Substrate for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5577-5584.	4.0	38
5777	Combination of Optical and Electrical Loss Analyses for a Si-Phthalocyanine Dye-Sensitized Solar Cell. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14027-14036.	1.2	7

#	ARTICLE	IF	CITATIONS
5778	Influence of Aqueous Media on the ROS-Mediated Toxicity of ZnO Nanoparticles toward Green Fluorescent Protein-Expressing <i>Escherichia coli</i> under UV-365 Irradiation. <i>Langmuir</i> , 2014, 30, 2852-2862.	1.6	77
5779	Theoretical investigation of triphenylamine-based sensitizers with different $\pi$ -spacers for DSSC. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 1144-1151.	2.0	46
5780	Modeling Excited States in $\text{TiO}_2$ Nanoparticles: On the Accuracy of a TD-DFT Based Description. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1189-1199.	2.3	63
5781	Evolution of ZnO microstructures from hexagonal disk to prismoid, prism and pyramid and their crystal facet-dependent gas sensing properties. <i>CrystEngComm</i> , 2014, 16, 7062.	1.3	95
5782	Conductive Upconversion Er,Yb-FTO Nanoparticle Coating To Replace Pt as a Low-Cost and High-Performance Counter Electrode for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8223-8229.	4.0	27
5783	Red electroluminescence of ruthenium sensitizer functionalized by sulfonate anchoring groups. <i>Dalton Transactions</i> , 2014, 43, 9202-9215.	1.6	20
5784	Managing Complex Photophysical Pathways for Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2380-2381.	2.1	1
5785	Effect of Blocking Layer to Boost Photoconversion Efficiency in ZnO Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11236-11244.	4.0	40
5786	The role of F-dopants in adsorption of gases on anatase $\text{TiO}_2$ (001) surface: a first-principles study. <i>RSC Advances</i> , 2014, 4, 35928-35942.	1.7	6
5788	New $\pi$ -A system dye based on dithienosilole and carbazole: Synthesis, photo-electrochemical properties and dye-sensitized solar cell performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 294, 54-61.	2.0	20
5790	Non-toxic silver iodide (AgI) quantum dots sensitized solar cells. <i>Materials Research Bulletin</i> , 2014, 60, 38-45.	2.7	19
5791	A Noble-Metal-Free, Tetra-nickel Polyoxotungstate Catalyst for Efficient Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2014, 136, 14015-14018.	6.6	213
5792	Low-temperature synthesis of tin dioxide hollow nanospheres and their potential applications in dye-sensitized solar cells and photoelectrochemical type self-powered ultraviolet photodetectors. <i>Journal of Power Sources</i> , 2014, 272, 886-894.	4.0	46
5793	Photoinitiated charge separation in a hybrid titanium dioxide metalloporphyrin peptide material. <i>Nature Communications</i> , 2014, 5, 4606.	5.8	23
5794	Preparation of the working electrode of dye-sensitized solar cells: Effects of screen printing parameters. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 2340-2345.	2.7	18
5795	Ag <sub>2</sub> O/TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> one-dimensional nanoheterostructures for superior solar light photocatalytic activity. <i>Nanoscale</i> , 2014, 6, 6790.	2.8	60
5796	Synthesis of {010}-faceted anatase $\text{TiO}_2$ nanoparticles from layered titanate for dye-sensitized solar cells. <i>CrystEngComm</i> , 2014, 16, 8885.	1.3	27
5797	Atomic Layer Deposition of $\text{TiO}_2$ on Mesoporous nanoITO: Conductive Core-Shell Photoanodes for Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2014, 14, 3255-3261.	4.5	71

#	ARTICLE	IF	CITATIONS
5798	Different TiO <sub>2</sub> nanotubes for back illuminated dye sensitized solar cell: fabrication, characterization and electrochemical impedance properties of DSSCs. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 5027-5034.	1.1	39
5799	The Role of Surface States in the Oxygen Evolution Reaction on Hematite. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13404-13408.	7.2	128
5800	Controlled synthesis of CuInS <sub>2</sub> /reduced graphene oxide nanocomposites for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 272, 639-646.	4.0	38
5801	Tethering Metal Ions to Photocatalyst Particulate Surfaces by Bifunctional Molecular Linkers for Efficient Hydrogen Evolution. <i>ChemSusChem</i> , 2014, 7, 2575-2583.	3.6	19
5802	Dynamics of a Covalently Conjoined FRET Dye Ensemble for Electron Injection into ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9336-9345.	1.5	8
5803	Behaviour of hydrogen in wide band gap oxides. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	70
5804	Review on modified Nâ€“TiO <sub>2</sub> for green energy applications under UV/visible light: selected results and reaction mechanisms. <i>RSC Advances</i> , 2014, 4, 28265-28299.	1.7	136
5805	Cross-Linkable Molecular Hole-Transporting Semiconductor for Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16967-16975.	1.5	22
5806	Efficient Electron Injection from Acyloin-Anchored Semisquarylium Dyes into Colloidal TiO <sub>2</sub> Films for Organic Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6612-6623.	1.5	8
5807	Improved Stability of Polycrystalline Bismuth Vanadate Photoanodes by Use of Dual-Layer Thin TiO <sub>2</sub> /Ni Coatings. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19618-19624.	1.5	129
5808	One dimensional CdS/ZnO nanocomposites: an efficient photocatalyst for hydrogen generation. <i>RSC Advances</i> , 2014, 4, 47637-47642.	1.7	39
5809	Simple Porphyrin Desymmetrization: 5,10,15,20â€“Tetrakis(3â€“hydroxyphenyl)porphyrin (<i>m</i>THPP) as a Gateway Molecule for Peripheral Functionalization. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4283-4294.	1.2	13
5810	Antimony-Doped Tin Oxide Nanorods as a Transparent Conducting Electrode for Enhancing Photoelectrochemical Oxidation of Water by Hematite. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5494-5499.	4.0	63
5811	A nonstoichiometric SnO <sub>2</sub> ~Î” nanocrystal-based counter electrode for remarkably improving the performance of dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 7020.	2.2	41
5812	Development of a ReaxFF reactive force field for intrinsic point defects in titanium dioxide. <i>Computational Materials Science</i> , 2014, 95, 579-591.	1.4	33
5813	Electronic and Optical Properties of Dye-Sensitized TiO <sub>2</sub> Interfaces. <i>Topics in Current Chemistry</i> , 2014, 347, 1-45.	4.0	18
5814	Platinum-free binary Feâ€“Co nanofiber alloy counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 268, 56-62.	4.0	42
5815	Optical and Acoustic Vibrations Confined in Anatase TiO <sub>2</sub> Nanoparticles under High-Pressure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10495-10501.	1.5	10

#	ARTICLE	IF	CITATIONS
5816	Effect of a pi-bridging unit in triphenylamine-benzothiadiazole based donor acceptor chromophores for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 147, 617-625.	2.6	12
5817	2-Photon tandem device for water splitting: comparing photocathode first <i>versus</i> photoanode first designs. <i>Energy and Environmental Science</i> , 2014, 7, 2397-2413.	15.6	130
5818	Nanostructuring Materials for Solar-to-Hydrogen Conversion. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21301-21315.	1.5	40
5819	The role of terminal groups in electronic structures and related properties: The case of push-pull porphyrin dye sensitizers for solar cells. <i>Computational and Theoretical Chemistry</i> , 2014, 1039, 62-70.	1.1	12
5820	Preparation of mixed (Cd,Bi)S composite thin films via surfactant facilitated electrodeposition process and their photoelectrochemical characterization. <i>Materials Chemistry and Physics</i> , 2014, 146, 324-329.	2.0	3
5821	Enhanced performance of dye-sensitized solar cells with TiO <sub>2</sub> blocking layers and Pt counter electrodes prepared by physical vapor deposition (PVD). <i>Electrochimica Acta</i> , 2014, 116, 334-342.	2.6	15
5822	Mechanisms of Photogeneration and Relaxation of Excitons and Mobile Carriers in Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 7337-7343.	1.5	14
5823	Charge Trapping at the Step Edges of TiO <sub>2</sub> Anatase (101). <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4714-4716.	7.2	102
5824	Enhanced photoelectrochemical water-splitting performance of semiconductors by surface passivation layers. <i>Energy and Environmental Science</i> , 2014, 7, 2504-2517.	15.6	518
5825	Highly Efficient Metal-Free Sulfur-Doped and Nitrogen and Sulfur Dual-Doped Reduced Graphene Oxide Counter Electrodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17010-17018.	1.5	55
5826	ZnO nanosheet arrays constructed on weaved titanium wire for CdS-sensitized solar cells. <i>Nanoscale Research Letters</i> , 2014, 9, 112.	3.1	6
5827	Monoanchoring (D $\pi$ D $\pi$ C $\pi$ C $\pi$ A) and Dianchoring (D $\pi$ D $\pi$ (i $\pi$ C $\pi$ A) <sub>2</sub> ) Organic Dyes Featuring Triarylamine Donors Composed of Fluorene and Carbazole. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 886-898.	1.3	8
5828	Morphology-tunable synthesis of ZnO nanoforest and its photoelectrochemical performance. <i>Nanoscale</i> , 2014, 6, 8769-8780.	2.8	141
5829	A 2,7-pyrene-based dye for solar cell application. <i>New Journal of Chemistry</i> , 2014, 38, 4404.	1.4	36
5830	Electron-Hole Recombination Time at TiO <sub>2</sub> Single-Crystal Surfaces: Influence of Surface Band Bending. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1953-1957.	2.1	219
5831	Metal-organic frameworks for artificial photosynthesis and photocatalysis. <i>Chemical Society Reviews</i> , 2014, 43, 5982-5993.	18.7	1,879
5832	Effects of TiO <sub>2</sub> electron blocking layer on photovoltaic performance of photo-electrochemical cell. <i>Optical Materials</i> , 2014, 36, 1454-1458.	1.7	3
5833	Kinetic and mechanistic study of the photocatalytic reforming of methanol over Pt/TiO <sub>2</sub> catalyst. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 249-257.	10.8	104

#	ARTICLE	IF	CITATIONS
5834	Complexation of polyaniline and graphene for efficient counter electrodes in dye-sensitized solar cells: Enhanced charge transfer ability. <i>Journal of Power Sources</i> , 2014, 256, 8-13.	4.0	71
5835	Benzo[1,2-b:4,5-b'â€²]dithiophene and benzo[1,2-b:4,5-b'â€²]difuran based organic dipolar compounds for sensitized solar cells. <i>Dyes and Pigments</i> , 2014, 109, 81-89.	2.0	14
5836	Improved properties of dye-sensitized solar cells by multifunctional scattering layer of yolk-shell-like TiO <sub>2</sub> microspheres. <i>Journal of Power Sources</i> , 2014, 264, 35-41.	4.0	50
5837	Photoelectrochemical water oxidation of LaTaON <sub>2</sub> under visible-light irradiation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7697-7704.	3.8	53
5838	Non-monotonic concentrationâ€™response relationship of TiO <sub>2</sub> nanoparticles in freshwater cladocerans under environmentally relevant UV-A light. <i>Ecotoxicology and Environmental Safety</i> , 2014, 101, 240-247.	2.9	29
5839	Effects of temperature, triazole and hot-pressing on the performance of TiO <sub>2</sub> photoanode in a solid-state photoelectrochemical cell. <i>Electrochimica Acta</i> , 2014, 115, 66-74.	2.6	10
5840	Hybrid photoelectrode by using vertically aligned rutile TiO <sub>2</sub> nanowires inlaid with anatase TiO <sub>2</sub> nanoparticles for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2014, 143, 1440-1445.	2.0	5
5841	Cobalt sulfide thin film as an efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 133, 174-179.	2.6	73
5842	Optimizing the photovoltaic performance of thiocyanate-free ruthenium photosensitizers by structural modification of C^N cyclometalating ligand in dye-sensitized solar cells. <i>Polyhedron</i> , 2014, 82, 71-79.	1.0	9
5843	Preparation and surface modification of hierarchical nanosheets-based ZnO microstructures for dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , 2014, 210, 160-165.	1.4	15
5844	PtRu nanofiber alloy counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 258, 117-121.	4.0	66
5845	Effects of oxygen doping on optical band gap and band edge positions of Ta <sub>3</sub> N <sub>5</sub> photocatalyst: A GGA+U calculation. <i>Journal of Catalysis</i> , 2014, 309, 291-299.	3.1	67
5846	Pores on TiO <sub>2</sub> nanosheets with exposed high active facets. <i>Materials Letters</i> , 2014, 123, 254-257.	1.3	3
5847	A new method for studying activity and reaction kinetics of photocatalytic water oxidation systems using a bubbling reactor. <i>Chemical Engineering Journal</i> , 2014, 238, 17-26.	6.6	21
5848	In-situ synthesis of TiO <sub>2</sub> network nanoporous structure on Ti wire substrate and its application in fiber dye sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 245, 59-65.	4.0	33
5849	Vertical Growth of Two-Dimensional TiO <sub>2</sub> Nanosheets Array Films and Enhanced Photoelectrochemical Properties Sensitized by CdS Quantum Dots. <i>Electrochimica Acta</i> , 2014, 125, 258-265.	2.6	31
5850	Enhanced charge transfer character of photoexcited states of dye sensitizer on the N719/TiO <sub>2</sub> interface as revealed by electroabsorption spectra. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 288, 70-75.	2.0	14
5851	Ultrathin SnO <sub>2</sub> layer for efficient carrier collection in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2014, 556, 503-508.	0.8	24

#	ARTICLE	IF	CITATIONS
5852	Photocatalytic performance of Sn-doped TiO <sub>2</sub> /reduced graphene oxide composite materials. <i>Applied Catalysis A: General</i> , 2014, 473, 21-30.	2.2	34
5853	Performance enhancement in dye-sensitized solar cells by utilization of a bifunctional layer consisting of core-shell $\text{NaYF}_4:\text{Er}^{3+}/\text{Yb}^{3+}@\text{SiO}_2$ submicron hexagonal prisms. <i>Journal of Power Sources</i> , 2014, 249, 72-78.	4.0	27
5854	Cu-doped ZnO nanoporous film for improved performance of CdS/CdSe quantum dot-sensitized solar cells. <i>Thin Solid Films</i> , 2014, 570, 310-314.	0.8	10
5855	Thiocyanate-free ruthenium(II) 2,2'-bipyridyl complexes for dye-sensitized solar cells. <i>Polyhedron</i> , 2014, 82, 50-56.	1.0	36
5856	Theoretical design and screening of alkyne bridged triphenyl zinc porphyrins as sensitizer candidates for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 564-571.	2.0	9
5857	Application of ZnO single crystals for light-induced water splitting under UV irradiation. <i>Materials Chemistry and Physics</i> , 2014, 143, 1253-1257.	2.0	6
5858	Improvement of dye-sensitized solar cell performance through infiltration of TiO <sub>2</sub> nanoparticles between mesoporous TiO <sub>2</sub> particles. <i>Materials Research Bulletin</i> , 2014, 58, 88-92.	2.7	8
5859	Using different chemical methods for deposition of CdS on TiO <sub>2</sub> surface and investigation of their influences on the dye-sensitized solar cell performance. <i>Electrochimica Acta</i> , 2014, 117, 504-520.	2.6	158
5860	Fast production of ZnO nanorods by arc discharge in de-ionized water and applications in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2014, 586, 593-599.	2.8	31
5861	The effect of anodization parameters on the formation of nanoporous TiO <sub>2</sub> layers and their photocatalytic activities. <i>Journal of Alloys and Compounds</i> , 2014, 604, 66-72.	2.8	37
5862	Corrole dyes for dye-sensitized solar cells: The crucial role of the dye/semiconductor energy level alignment. <i>Computational and Theoretical Chemistry</i> , 2014, 1030, 59-66.	1.1	38
5863	Investigation on the influence of pH on structure and photoelectrochemical properties of CdSe electrolytically deposited into TiO <sub>2</sub> nanotube arrays. <i>Journal of Alloys and Compounds</i> , 2014, 607, 163-168.	2.8	20
5864	Transparent and conductive titanium indium zinc oxide/Ag/titanium indium zinc oxide multilayer films deposited by radio frequency magnetron co-sputtering. <i>Thin Solid Films</i> , 2014, 558, 31-36.	0.8	3
5865	Morphological and crystallite size impact on electrochemical performance of electrospun rutile and rutile/multiwall carbon nanotube nanofibers for lithium ion batteries. <i>Ceramics International</i> , 2014, 40, 5665-5669.	2.3	11
5866	Dynamic correlation of photo-excited electrons: Anomalous levels induced by light-matter coupling. <i>Physica B: Condensed Matter</i> , 2014, 438, 109-113.	1.3	0
5867	Counter electrodes from polyaniline-carbon nanotube complex/graphene oxide multilayers for dye-sensitized solar cell application. <i>Electrochimica Acta</i> , 2014, 125, 510-515.	2.6	32
5868	Durability and efficiency of ink-jet printed TiO <sub>2</sub> coatings: Influence of processing temperature. <i>Thin Solid Films</i> , 2014, 556, 160-167.	0.8	8
5869	Prospects of applying ionic liquids and deep eutectic solvents for renewable energy storage by means of redox flow batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 254-270.	8.2	212

#	ARTICLE	IF	CITATIONS
5870	Effects of TiO <sub>2</sub> film thickness on photovoltaic properties of dye-sensitized solar cell and its enhanced performance by graphene combination. <i>Materials Research Bulletin</i> , 2014, 49, 126-131.	2.7	58
5871	WO <sub>3</sub> nanoneedles/ $\sqrt{1-x}$ -Fe <sub>2</sub> O <sub>3</sub> /cobalt phosphate composite photoanode for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 304-310.	10.8	88
5872	Ab initio study on the effects of dopant defect cluster on the electronic properties of TiO <sub>2</sub> -based photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2049-2055.	3.8	17
5873	Preparation of double layer porous films of Titanium/Titanium oxide for photoelectrochemical cells application. <i>Optical Materials</i> , 2014, 36, 1430-1435.	1.7	6
5874	Enhancing the performance of front-illuminated dye-sensitized solar cells with highly [001] oriented, single-crystal-like TiO <sub>2</sub> nanotube arrays. <i>Ceramics International</i> , 2014, 40, 173-180.	2.3	22
5875	Insights into the photosensitivity activity of BiOCl under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 182-189.	10.8	181
5876	Fabrication and photoelectrochemical properties of ordered Si nanohole arrays. <i>Applied Surface Science</i> , 2014, 292, 86-92.	3.1	10
5877	Robust conducting gel electrolytes for efficient quasi-solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 57-64.	2.6	27
5878	Internal structure control of the TiO <sub>2</sub> nanotubes and polysiloxane nanocomposites by nanosecond pulsed electric field. <i>Journal of Asian Ceramic Societies</i> , 2014, 2, 97-101.	1.0	4
5879	Effects of nanoparticle additives on the properties of agarose polymer electrolytes. <i>Journal of Power Sources</i> , 2014, 248, 988-993.	4.0	29
5880	Design of Ru(II) sensitizers endowed by three anchoring units for adsorption mode and light harvesting optimization. <i>Thin Solid Films</i> , 2014, 560, 86-93.	0.8	9
5881	Electrochemical pulsed deposition of platinum nanoparticles on indium tin oxide/polyethylene terephthalate as a flexible counter electrode for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2014, 570, 277-281.	0.8	14
5882	A comparative study on the dye sensitized solar cell performance of solution processed ZnO. <i>Solar Energy</i> , 2014, 102, 143-151.	2.9	29
5883	Titanium Dioxide Nanomaterials: Self-Structural Modifications. <i>Chemical Reviews</i> , 2014, 114, 9890-9918.	23.0	447
5884	Characterization of Ferrocene-Modified Electrode Using Electrochemical Surface Forces Apparatus. <i>Langmuir</i> , 2014, 30, 7093-7097.	1.6	21
5885	A Tantalum Nitride Photoanode Modified with a Hole Storage Layer for Highly Stable Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7295-7299.	7.2	354
5886	Visible Light Driven Photoelectrochemical Water Oxidation by Zn- and Ti-Doped Hematite Nanostructures. <i>ACS Catalysis</i> , 2014, 4, 2006-2015.	5.5	173
5887	Photocatalytic Hydrogen Generation from Pure Water using Silicon Carbide Nanoparticles. <i>Energy Technology</i> , 2014, 2, 183-187.	1.8	33

#	ARTICLE	IF	CITATIONS
5888	Role of the main adsorption modes in the interaction of the dye [COOHâ€“TPP-Zn(ii)] on a periodic TiO <sub>2</sub> slab exposing a rutile (110) surface in a dye-sensitized solar cell. RSC Advances, 2014, 4, 9639.	1.7	12
5889	Functionalization of Boron-Doped Nanocrystalline Diamond with N3 Dye Molecules. ACS Applied Materials & Interfaces, 2014, 6, 10322-10329.	4.0	32
5890	Prolonged Hot Electron Dynamics in Plasmonicâ€“Metal/Semiconductor Heterostructures with Implications for Solar Photocatalysis. Angewandte Chemie - International Edition, 2014, 53, 7887-7891.	7.2	349
5891	Titanium Dioxide Nanomaterials for Sensor Applications. Chemical Reviews, 2014, 114, 10131-10176.	23.0	702
5892	Adsorption and Reactions of O <sub>2</sub> on Anatase TiO <sub>2</sub> . Accounts of Chemical Research, 2014, 47, 3361-3368.	7.6	140
5893	Organic Dyes Containing Fluorene Decorated with Imidazole Units for Dye-Sensitized Solar Cells. Journal of Organic Chemistry, 2014, 79, 3159-3172.	1.7	71
5894	Comparison of TiO <sub>2</sub> and ZnO Solar Cells Sensitized with an Indoline Dye: Time-Resolved Laser Spectroscopy Studies of Partial Charge Separation Processes. Langmuir, 2014, 30, 2505-2512.	1.6	42
5895	Computational study on zinc porphyrin analogs for use in dye-sensitized solar cells. Journal of Porphyrins and Phthalocyanines, 2014, 18, 406-415.	0.4	4
5896	Highly Efficient Dyeâ€“sensitized Solar Cells by Coâ€“sensitization of Organic Dyes and Coâ€“adsorbent Chenodeoxycholic Acid. Chinese Journal of Chemistry, 2014, 32, 474-478.	2.6	10
5897	Synthesis and Photoelectrochemical Properties of (Cu <sub>2</sub> Sn) <sub>x</sub> Zn <sub>3(1â€“x)</sub> S <sub>3</sub> Nanocrystal Films. Journal of Physical Chemistry C, 2014, 118, 11954-11963.	1.5	23
5898	A review of semiconductor materials as sensitizers for quantum dot-sensitized solar cells. Renewable and Sustainable Energy Reviews, 2014, 37, 397-407.	8.2	163
5899	Oriented Mesoporous Nanopyramids as Versatile Plasmon-Enhanced Interfaces. Journal of the American Chemical Society, 2014, 136, 6822-6825.	6.6	62
5900	Visible light induced photocatalytic activity of Fe <sup>3+</sup> /Ti <sup>3+</sup> co-doped TiO <sub>2</sub> nanostructures. RSC Advances, 2014, 4, 18033-18037.	1.7	26
5901	Gadolinium-modified titanium oxide materials for photoenergy applications: a review. Journal of Rare Earths, 2014, 32, 487-495.	2.5	40
5902	Enhancing Electrochemical Hydrogen Generation by Platinum-Modification of p-Type Silicon Wires Array under Visible Light. Journal of the Electrochemical Society, 2014, 161, H458-H463.	1.3	10
5903	Electronic structures and optical spectra of thin anatase TiO <sub>2</sub> through hybrid density functional and quasiparticle calculations. Physical Review B, 2014, 89, .	1.1	14
5904	Design strategies of metal free-organic sensitizers for dye sensitized solar cells: Role of donor and acceptor monomers. Organic Electronics, 2014, 15, 1205-1214.	1.4	41
5905	Photoelectrochemical DNA Biosensors. Chemical Reviews, 2014, 114, 7421-7441.	23.0	722



#	ARTICLE	IF	CITATIONS
5906	Aluminum plasmonic nanoparticles enhanced dye sensitized solar cells. <i>Optics Express</i> , 2014, 22, A301.	1.7	40
5907	Scalable Low-Cost SnS <sub>2</sub> Nanosheets as Counter Electrode Building Blocks for Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2014, 20, 8670-8676.	1.7	78
5908	One-Pot Controlled Synthesis of Spongelike CuInS <sub>2</sub> Microspheres for Efficient Counter Electrode with Graphene Assistance in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 2604-2610.	4.0	52
5909	Extreme light absorption in a necking-free monolayer of resonant-size nanoparticles for photoelectrochemical cells. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 075001.	1.0	6
5910	Modulation on charge recombination and light harvesting toward high-performance benzothiadiazole-based sensitizers in dye-sensitized solar cells: A theoretical investigation. <i>Journal of Power Sources</i> , 2014, 267, 300-308.	4.0	65
5911	Polydopamine and Its Derivative Materials: Synthesis and Promising Applications in Energy, Environmental, and Biomedical Fields. <i>Chemical Reviews</i> , 2014, 114, 5057-5115.	23.0	3,865
5912	Performance improvement of gel- and solid-state dye-sensitized solar cells by utilization the blending effect of poly (vinylidene fluoride-co-hexafluoropropylene) and poly (acrylonitrile-co-vinyl acetate) co-polymers. <i>Journal of Power Sources</i> , 2014, 268, 77-81.	4.0	20
5913	Layer-by-Layer Self-Assembly of TiO <sub>2</sub> Hierarchical Nanosheets with Exposed {001} Facets As an Effective Bifunctional Layer for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9144-9149.	4.0	39
5914	Carbon nanofiber-templated mesoporous TiO <sub>2</sub> nanotubes as a high-capacity anode material for lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 9061.	1.7	29
5915	Water Oxidation by an Electropolymerized Catalyst on Derivatized Mesoporous Metal Oxide Electrodes. <i>Journal of the American Chemical Society</i> , 2014, 136, 6578-6581.	6.6	108
5916	Improved Photovoltages for p-Type Dye-Sensitized Solar Cells Using CuCrO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16375-16379.	1.5	72
5917	Electron transport in dye-sensitized solar cells based on TiO <sub>2</sub> nanowires. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 892-897.	2.0	6
5918	Efficient Photoelectrochemical Water Splitting with Ultrathin films of Hematite on Three-Dimensional Nanophotonic Structures. <i>Nano Letters</i> , 2014, 14, 2123-2129.	4.5	307
5919	Time-dependent density functional theory using atomic orbitals and the self-consistent Sternheimer equation. <i>Physical Review B</i> , 2014, 89, .	1.1	15
5920	Organic dyes containing fluoren-9-ylidene chromophores for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5766.	5.2	60
5921	Surface-phase junctions of branched TiO <sub>2</sub> nanorod arrays for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 296-300.	10.8	86
5922	Effect of ZnO block layers fabricated by Pulsed Laser Deposition and mesoporous layers by chemical method on the performance of dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 131-137.	2.6	9
5923	Efficiency enhancement of ZnO-based dye-sensitized solar cell by hollow TiO <sub>2</sub> nanofibers. <i>Journal of Alloys and Compounds</i> , 2014, 611, 19-23.	2.8	37

#	ARTICLE	IF	CITATIONS
5924	In situ electropolymerization of polyaniline/cobalt sulfide decorated carbon nanotube composite catalyst toward triiodide reduction in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 266, 448-455.	4.0	38
5925	Efficient Solar Energy Storage Using A TiO <sub>2</sub> /WO <sub>3</sub> Tandem Photoelectrode in An All-vanadium Photoelectrochemical Cell. <i>Electrochimica Acta</i> , 2014, 136, 435-441.	2.6	44
5926	Photochemical splitting of water for hydrogen production by photocatalysis: A review. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 85-101.	3.0	578
5927	Low-temperature synthesis of size-controllable anatase TiO <sub>2</sub> microspheres and interface optimization of bi-layer anodes for high efficiency dye sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 17-25.	2.6	14
5928	Simple electrochemical synthesis of black metal oxides for enhanced visible light absorption. <i>Materials Letters</i> , 2014, 130, 131-134.	1.3	2
5929	The study of post annealing effect on Cu <sub>2</sub> O thin-films by electrochemical deposition for photoelectrochemical applications. <i>Journal of Alloys and Compounds</i> , 2014, 612, 74-79.	2.8	43
5930	Study of photophysical properties AlBaq5. <i>Optik</i> , 2014, 125, 3813-3817.	1.4	6
5931	Synergistic effect of CdSe quantum dots on photoelectrochemical response of electrodeposited $\pm$ -Fe <sub>2</sub> O <sub>3</sub> films. <i>Journal of Power Sources</i> , 2014, 267, 664-672.	4.0	35
5932	Quantum dot sensitized titania for photo-fuel-cell and for water splitting operation in the presence of sacrificial agents. <i>Chemical Engineering Journal</i> , 2014, 254, 245-251.	6.6	48
5933	Control of optical absorption edge of TiO <sub>2</sub> through co-doped acceptors: The chemical trend. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2275-2279.	0.9	3
5934	Ferromagnetic granular exchange interactions of nickel and iron. <i>Powder Technology</i> , 2014, 264, 541-543.	2.1	1
5935	Novel Coupled Structures of FeWO <sub>4</sub> /TiO <sub>2</sub> and FeWO <sub>4</sub> /TiO <sub>2</sub> /CdS Designed for Highly Efficient Visible-Light Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9654-9663.	4.0	63
5936	Variation in Optoelectronic Properties of Azo Dye-Sensitized TiO <sub>2</sub> Semiconductor Interfaces with Different Adsorption Anchors: Carboxylate, Sulfonate, Hydroxyl and Pyridyl Groups. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 7535-7546.	4.0	95
5937	A New Water Oxidation Catalyst: Lithium Manganese Pyrophosphate with Tunable Mn Valency. <i>Journal of the American Chemical Society</i> , 2014, 136, 4201-4211.	6.6	136
5938	Visible-light-enhanced Suzuki–Miyaura coupling reaction by cooperative photocatalysis with an Ru–Pd bimetallic complex. <i>Chemical Communications</i> , 2014, 50, 14501-14503.	2.2	60
5939	Improved performance of quantum dot-sensitized solar cells adopting a highly efficient cobalt sulfide/nickel sulfide composite thin film counter electrode. <i>Journal of Power Sources</i> , 2014, 268, 163-170.	4.0	78
5940	Synergistic recombination suppression by an inorganic layer and organic dye molecules in highly photostable quantum dot sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6250.	1.3	15
5941	Rapid Electron Injection in Nitrogen- and Fluorine-Doped Flower-Like Anatase TiO <sub>2</sub> with {001} Dominated Facets and Dye-Sensitized Solar Cells with a 52% Increase in Photocurrent. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8795-8802.	1.5	29

#	ARTICLE	IF	CITATIONS
5942	Optimization of TiO <sub>2</sub> photoanode films for highly efficient quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13033.	5.2	98
5943	Mixed oxide semiconductors based on bismuth for photoelectrochemical applications. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1963-1971.	1.2	12
5944	Graphene supported plasmonic photocatalyst for hydrogen evolution in photocatalytic water splitting. <i>Nanotechnology</i> , 2014, 25, 265701.	1.3	59
5945	Pulse-reversal electropolymerization of polypyrrole on functionalized carbon nanotubes as composite counter electrodes in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 721-727.	2.6	20
5946	Natural photosensitizers for solid-state dye sensitized solar cell. , 2014, , .		1
5947	Recent Advances in Tin Dioxide Materials: Some Developments in Thin Films, Nanowires, and Nanorods. <i>Chemical Reviews</i> , 2014, 114, 7442-7486.	23.0	146
5948	Theory and Simulations of Electrocatalyst-Coated Semiconductor Electrodes for Solar Water Splitting. <i>Physical Review Letters</i> , 2014, 112, 148304.	2.9	87
5949	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. <i>ACS Photonics</i> , 2014, 1, 235-240.	3.2	76
5950	Back Electron-Hole Recombination in Hematite Photoanodes for Water Splitting. <i>Journal of the American Chemical Society</i> , 2014, 136, 2564-2574.	6.6	393
5951	Ionic liquid-tethered Graphene Oxide/Ionic Liquid Electrolytes for Highly Efficient Dye Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 134, 209-214.	2.6	40
5952	The influence of annealing temperature on the interface and photovoltaic properties of CdS/CdSe quantum dots sensitized ZnO nanorods solar cells. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 200-206.	5.0	13
5953	Counter electrodes from polyaniline-graphene complex/graphene oxide multilayers for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 137, 175-182.	2.6	29
5954	TiO <sub>2</sub> particles prepared by size control self-assembly and their usage on dye-sensitized solar cell. <i>Microporous and Mesoporous Materials</i> , 2014, 196, 354-358.	2.2	11
5955	Low temperature grown ZnO@TiO <sub>2</sub> core shell nanorod arrays for dye sensitized solar cell application. <i>Journal of Solid State Chemistry</i> , 2014, 214, 17-23.	1.4	34
5956	Photo-electrochemical properties of variously-sized titanium dioxide nanoparticle-based dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 354-359.	1.9	3
5957	A derivative photoelectrochemical sensing platform for herbicide acetochlor based on TiO <sub>2</sub> -poly(3-hexylthiophene)-ionic liquid nanocomposite film modified electrodes. <i>Talanta</i> , 2014, 127, 169-174.	2.9	22
5958	Optical parameters induced by phase transformation in RF magnetron sputtered TiO <sub>2</sub> nanostructured thin films. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 218-225.	1.8	58
5959	Mesoporous TiO <sub>2</sub> anodes for efficient dye-sensitized solar cells: An efficiency of 9.86% under one sun illumination. <i>Journal of Power Sources</i> , 2014, 267, 445-451.	4.0	74

#	ARTICLE	IF	CITATIONS
5960	Visible-light-driven photocatalytic properties of ZnO/ZnFe <sub>2</sub> O <sub>4</sub> core/shell nanocable arrays. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 408-414.	10.8	144
5961	Surface preparation of TiO <sub>2</sub> anatase (101): Pitfalls and how to avoid them. <i>Surface Science</i> , 2014, 626, 61-67.	0.8	47
5962	Hierarchical tree-like heterostructure arrays for enhanced photoelectrochemical activity. <i>Electrochimica Acta</i> , 2014, 136, 217-222.	2.6	13
5963	Iodide-conducting plastic crystals based on N,N-dimethyl-2-(methylsilyloxy) ethanaminium cations (MESEAn+) for application in dye-sensitized solar cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2896-2903.	3.8	6
5964	Density-functional study of luminescence in polypyridine ruthenium complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 276, 8-15.	2.0	16
5965	The enhancement of dye adsorption in dye-sensitized solar module by an electrical adsorption method. <i>Thin Solid Films</i> , 2014, 554, 118-121.	0.8	7
5966	Photoexcitation of TiO <sub>2</sub> photoanode in water splitting. <i>Materials Chemistry and Physics</i> , 2014, 143, 1417-1422.	2.0	10
5967	A nanostructure-based counter electrode for dye-sensitized solar cells by assembly of silver nanoparticles. <i>Organic Electronics</i> , 2014, 15, 1641-1649.	1.4	19
5968	A Perspective on Mesoporous TiO <sub>2</sub> Materials. <i>Chemistry of Materials</i> , 2014, 26, 287-298.	3.2	413
5969	Theoretical characterisation of highly efficient dye-sensitised solar cells. <i>Molecular Physics</i> , 2014, 112, 22-34.	0.8	13
5970	Rapid radiative platinisation for dye-sensitized solar cell counter electrodes. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 1267-1272.	4.4	7
5971	Photosynthetic reaction center-functionalized electrodes for photo-bioelectrochemical cells. <i>Photosynthesis Research</i> , 2014, 120, 71-85.	1.6	94
5972	Structure and Photo-Induced Charge Transfer of Pyridine Molecules Adsorbed on TiO <sub>2</sub> (110): A NEXAFS and Core-Hole-Clock Study. <i>Electrochemistry</i> , 2014, 82, 341-345.	0.6	2
5973	Integrating a Triplet-triplet Annihilation Up-conversion System to Enhance Dye-sensitized Solar Cell Response to Sub-bandgap Light. <i>Journal of Visualized Experiments</i> , 2014, , 52028.	0.2	3
5974	Plasmonic Enhancement of Dye Sensitized Solar Cells via a Tailored Size-Distribution of Chemically Functionalized Gold Nanoparticles. <i>PLoS ONE</i> , 2014, 9, e109836.	1.1	20
5975	3-D Micro and Nano Technologies for Improvements in Electrochemical Power Devices. <i>Micromachines</i> , 2014, 5, 171-203.	1.4	39
5977	Biologically inspired synthesis of highly branched zinc oxide nanowires. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014, 3, 10-18.	0.7	3
5978	Effect of Au nanoparticles added in nanocrystalline TiO <sub>2</sub> film on the photoelectrode of dye-sensitized solar cells. <i>International Journal of Nanotechnology</i> , 2014, 11, 1081.	0.1	0

#	ARTICLE	IF	CITATIONS
5979	Dye-sensitized Solar Cells Based on 1,3-Dithiol-2-ylidene Derivatives: Substituent and $\pi$ -Spacer Effects on the Efficiency. <i>Chemistry Letters</i> , 2014, 43, 296-298.	0.7	5
5980	Synthesis and Characterization of Ir and Rh Complexes Supported on Layered $K_4Nb_6O_{17}$ as a Heterogeneous Photocatalyst for Visible-Light-Induced Hydrogen Evolution. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 874-881.	2.0	11
5981	Direct Fabrication of $LaTiO_{2N}$ Photoanode for Visible-light-driven Water Splitting. <i>Chemistry Letters</i> , 2014, 43, 1441-1443.	0.7	4
5984	An Efficient Photoelectrochemical Hydrogen Evolution System using Silicon Nanomaterials with Ultra-High Aspect Ratios. <i>Energy Technology</i> , 2014, 2, 889-896.	1.8	4
5986	Electrical property and surface morphology of nanostructured $TiO_2$ film prepared at different number of coatings. , 2014, , .		0
5987	Defect engineering via surfaces for metal-oxide electronics. , 2014, , .		0
5988	The Morphological Characterization of Anodic $TiO_2$ Nanotube Arrays. <i>Microscopy and Microanalysis</i> , 2015, 21, 39-40.	0.2	3
5989	Highly Ordered Hexagonal Arrays of $TiO_2$ Nanotubes. <i>Microscopy and Microanalysis</i> , 2015, 21, 5-6.	0.2	1
5990	Transparent electrodes made from carbon nanotube polyelectrolytes and application to acidic environments. <i>Journal of Materials Research</i> , 2015, 30, 2009-2017.	1.2	9
5991	Intragap States Induced Visible Light Absorption of $TiO_2$ Nanoparticles: En Route to Solar Fuel Production. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1784, 1.	0.1	0
5992	Perspectives of in situ/operando resonant inelastic X-ray scattering in catalytic energy materials science. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 200, 282-292.	0.8	34
5993	Enhanced photocatalytic activity of ultra-high aspect ratio $ZnO$ nanowires due to Cu induced defects. <i>Radiation Effects and Defects in Solids</i> , 2015, 170, 939-944.	0.4	1
5994	Investigation of electrical and optical properties of $TiO_2$ -graphene for dye-sensitized solar cells. , 2015, , .		1
5995	Dark photovoltaic effects of Ti-rooted $TiO_2$ nanopillars as the anode in CdSe-sensitized solar cell. <i>Materials Research Innovations</i> , 2015, 19, s25-s29.	1.0	1
5996	On the Modeling and Simulation of Reaction-Transfer Dynamics in Semiconductor-Electrolyte Solar Cells. <i>SIAM Journal on Applied Mathematics</i> , 2015, 75, 2515-2539.	0.8	8
5997	Bio-Inspired Leaf-Mimicking Nanosheet/Nanotube Heterostructure as a Highly Efficient Oxygen Evolution Catalyst. <i>Advanced Science</i> , 2015, 2, 1500003.	5.6	90
5998	$Au@CdS$ Core-Shell Nanoparticles-Modified $ZnO$ Nanowires Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2015, 2, 1500135.	5.6	77
5999	Progress in Photovoltaic Textiles: A Comprehensive Review. , 2015, , 101-135.		0

#	ARTICLE	IF	CITATIONS
6000	Ultrafast multiphoton pump-probe photoemission excitation pathways in rutile $\text{TiO}_2$ . Physical Review B, 2015, 91, .	1.1	41
6001	Antiferromagnetic structures and electronic energy levels at reconstructed NiO(111) surfaces: A DFT study. Physical Review B, 2015, 91, .	1.1	22
6002	First-principles embedded-cluster calculations of the neutral and charged oxygen vacancy at the rutile $\text{TiO}_2$ (110) surface. Physical Review B, 2015, 92, .	1.1	25
6003	Aggregation and electronically induced migration of oxygen vacancies in $\text{TiO}_2$ anatase. Physical Review B, 2015, 91, .	1.1	47
6004	High Efficiency Organic/Silicon-Nanowire Hybrid Solar Cells: Significance of Strong Inversion Layer. Scientific Reports, 2015, 5, 17371.	1.6	58
6005	New class of photocatalytic materials and a novel principle for efficient water splitting under infrared and visible light: MgB <sub>2</sub> as unexpected example. Optics Express, 2015, 23, A1651.	1.7	7
6006	MoS <sub>2</sub> sensitized TiO <sub>2</sub> double-layer nanostructure arrays for photoelectrochemical water splitting. , 2015, , 347-349.		0
6007	ZnO@SnO <sub>2</sub> engineered composite photoanodes for dye sensitized solar cells. Scientific Reports, 2015, 5, 14523.	1.6	54
6009	Superconductivity Series in Transition Metal Dichalcogenides by Ionic Gating. Scientific Reports, 2015, 5, 12534.	1.6	234
6010	Graphene Nanosheets as the Counter Electrode in p-Type Dye-sensitized Solar Cells. Chemistry Letters, 2015, 44, 1053-1055.	0.7	2
6011	Carbon- and Nitrogen-Based Porous Solids: A Recently Emerging Class of Materials. Bulletin of the Chemical Society of Japan, 2015, 88, 386-398.	2.0	113
6013	Observing in space and time the ephemeral nucleation of liquid-to-crystal phase transitions. Nature Communications, 2015, 6, 8639.	5.8	18
6014	Optical properties of dyes affected by accelerating UV light exposure. Japanese Journal of Applied Physics, 2015, 54, 09MF03.	0.8	1
6015	Ecological toxicity of engineered nano materials to the organisms in the environment. , 2015, , 335-338.		3
6016	Multifunctional Interface Modification of Energy Relay Dye in Quasi-solid Dye-sensitized Solar Cells. Scientific Reports, 2014, 4, 5570.	1.6	12
6017	Substrate-induced interfacial plasmonics for photovoltaic conversion. Scientific Reports, 2015, 5, 14497.	1.6	24
6018	Anatase TiO <sub>2</sub> nanowires functionalized by organic sensitizers for solar cells: A screened Coulomb hybrid density functional study. Journal of Applied Physics, 2015, 118, 194301.	1.1	5
6019	Electronic spectra from TDDFT and machine learning in chemical space. Journal of Chemical Physics, 2015, 143, 084111.	1.2	173

#	ARTICLE	IF	CITATIONS
6021	Oxygen related recombination defects in Ta <sub>3</sub> N <sub>5</sub> water splitting photoanode. Applied Physics Letters, 2015, 107, .	1.5	37
6024	UV-Vis optoelectronic properties of $\text{In-SnWO}_4$ : A comparative experimental and density functional theory based study. APL Materials, 2015, 3, 096101.	2.2	40
6025	Electrical and Physical Property of TiO <sub>2</sub> Films Prepared at Different Deposition Time. Advanced Materials Research, 2015, 1109, 524-528.	0.3	0
6026	Nanomanufacturing of titania interfaces with controlled structural and functional properties by supersonic cluster beam deposition. Journal of Applied Physics, 2015, 118, .	1.1	81
6027	Effect of photoanode thickness on electrochemical performance of dye sensitized solar cell. AIP Conference Proceedings, 2015, . .	0.3	1
6028	Photoelectrochemical Properties of Alkali-treated Sodium Titanate Nanorods. Materials Research Society Symposia Proceedings, 2015, 1784, 1.	0.1	1
6029	Enhanced Electrochemical Catalytic Efficiencies of Electrochemically Deposited Platinum Nanocubes as a Counter Electrode for Dye-Sensitized Solar Cells. Nanoscale Research Letters, 2015, 10, 467.	3.1	12
6030	Fabrication of dye sensitized solar cells with different photoanode compositions using hydrothermally grown and P25 TiO <sub>2</sub> nanocrystals. EPJ Applied Physics, 2015, 69, 20401.	0.3	10
6031	TiO <sub>2</sub> nanofibers supported on Ti sheets prepared by hydrothermal corrosion: effect of the microstructure on their photochemical and photoelectrochemical properties. RSC Advances, 2015, 5, 95038-95046.	1.7	8
6032	Designing Photoelectrodes for Photocatalytic Fuel Cells and Elucidating the Effects of Organic Substrates. ChemSusChem, 2015, 8, 4005-4015.	3.6	36
6033	Surface Transfer Doping-Induced, High-Performance Graphene/Silicon Schottky Junction-Based, Self-Powered Photodetector. Small, 2015, 11, 4829-4836.	5.2	103
6034	Performance Enhancement of Electronic and Energy Devices via Block Copolymer Self-Assembly. Advanced Materials, 2015, 27, 3982-3998.	11.1	91
6035	Beyond Efficiency: the Challenge of Stability in Mesoscopic Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1501066.	10.2	395
6037	Mesoporous Biphasic C and N Codoped Anatase Nanocrystal-Carbon Composites and their Derived Doped Anatase Nanoparticles in Phenol Elimination under Visible Light. ChemCatChem, 2015, 7, 2945-2956.	1.8	6
6038	Multifunctional Porous Graphene for High-Efficiency Steam Generation by Heat Localization. Advanced Materials, 2015, 27, 4302-4307.	11.1	769
6039	One-Step Hydrothermal Tailoring of NiCo <sub>2</sub> S <sub>4</sub> Nanostructures on Conducting Oxide Substrates as an Efficient Counter Electrode in Dye-Sensitized Solar Cells. Advanced Materials Interfaces, 2015, 2, 1500384.	1.9	83
6040	Operando Synthesis of a Dendritic and Well-Crystallized Molybdenum Oxide/Silver Catalyst for Enhanced Activity in the Hydrogen Evolution Reaction. ChemCatChem, 2015, 7, 2517-2525.	1.8	5
6041	Origin of Projected Excellent Thermoelectric Transport Properties in d <sup>0</sup> -Electron AMN <sub>2</sub> (A = Sr or Ba; M = Ti, Zr, Hf) Layered Complex Metal Nitrides. European Journal of Inorganic Chemistry, 2015, 2015, 3715-3722.	1.0	12

#	ARTICLE	IF	CITATIONS
6042	Dye-Sensitized Solar Cells with Biferrocenyl Antennae Having Quinoxaline Spacers. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3700-3707.	1.0	29
6043	Computational Designing of Triphenylamine Dyes with Broad and Red-shifted Absorption Spectra for Dye-Sensitized Solar Cells using Multi-Thiophene Rings in $\pi$ -Spacer. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2615-2620.	1.0	77
6044	Synergistic Effect between Metal-Nitrogen-Carbon Sheets and NiO Nanoparticles for Enhanced Electrochemical Water Oxidation Performance. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10530-10534.	7.2	301
6045	Preparation of $\text{WO}_3$ Thin Film by Successive Dip Coating for Electrochromic and Photoelectrochromic Devices. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2213-2220.	1.0	6
6046	Enhancing the Efficiency of Water Oxidation by Boron-Doped $\text{BiVO}_4$ under Visible Light: Hole Trapping by $\text{BO}_4$ Tetrahedra. <i>ChemPlusChem</i> , 2015, 80, 1113-1118.	1.3	15
6047	Doped Framework Iron Hydroxyl Phosphate as Photocatalyst for Hydrogen Production from Water/Methanol Mixtures. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4237-4243.	1.0	3
6048	Aggregation of ZnO Nanocrystallites Using Polyol Process for Dye (Reactive Red) Sensitized Solar Cell. <i>Macromolecular Symposia</i> , 2015, 347, 52-57.	0.4	14
6049	Scalable Production of Edge-Functionalized Graphene Nanoplatelets via Mechanochemical Ball-Milling. <i>Advanced Functional Materials</i> , 2015, 25, 6961-6975.	7.8	135
6050	Catalytic Activity and Impedance Behavior of Screen-Printed Nickel Oxide as Efficient Water Oxidation Catalysts. <i>ChemSusChem</i> , 2015, 8, 4266-4274.	3.6	20
6051	Efficiency Records in Mesoscopic Dye-Sensitized Solar Cells. <i>Chemical Record</i> , 2015, 15, 803-828.	2.9	41
6052	Enhanced Charge Transport in Tantalum Nitride Nanotube Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2015, 8, 2615-2620.	3.6	40
6054	Novel $\text{Na}^+$ doped $\text{Al}_2\text{O}_3$ hybrid materials for organic light-emitting diode (OLED) devices and flat panel displays. <i>Luminescence</i> , 2015, 30, 251-256.	1.5	20
6055	Enhancement of Photoelectrochemical Performance in Water Oxidation over Bismuth Vanadate Photoanodes by Incorporation with Reduced Graphene Oxide. <i>ChemCatChem</i> , 2015, 7, 2979-2985.	1.8	11
6056	High-Performance Platinum-Free Dye-Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. <i>ChemPhysChem</i> , 2015, 16, 3959-3965.	1.0	27
6057	High-Throughput Screening of Thin-Film Semiconductor Material Libraries II: Characterization of $\text{Fe}_x\text{W}_x\text{O}$ Libraries. <i>ChemSusChem</i> , 2015, 8, 1279-1285.	3.6	28
6058	Photoelectrochemical Oxidation of Organic C1 Molecules over $\text{WO}_3$ Films in Aqueous Electrolyte: Competition Between Water Oxidation and C1 Oxidation. <i>ChemSusChem</i> , 2015, 8, 3677-3687.	3.6	12
6059	Carbonaceous Materials and Their Advances as a Counter Electrode in Dye-Sensitized Solar Cells: Challenges and Prospects. <i>ChemSusChem</i> , 2015, 8, 1510-1533.	3.6	77
6060	General Characterization Methods for Photoelectrochemical Cells for Solar Water Splitting. <i>ChemSusChem</i> , 2015, 8, 3192-3203.	3.6	64



#	ARTICLE	IF	CITATIONS
6061	Design Guidelines for High-Performance Particle-Based Photoanodes for Water Splitting: Lanthanum Titanium Oxynitride as a Model. <i>ChemSusChem</i> , 2015, 8, 3451-3458.	3.6	36
6062	Long-Range $\pi$ -Conjugation in Phenothiazine-Containing Donor-Acceptor Dyes for Application in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2015, 8, 3859-3868.	3.6	21
6063	Enhancing the Performance of Amorphous-Silicon Photoanodes for Photoelectrocatalytic Water Oxidation. <i>ChemSusChem</i> , 2015, 8, 3987-3991.	3.6	17
6064	Ruthenium Dyes with Azo Ligands: Light Harvesting, Excited-State Properties and Relevance to Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5864-5873.	1.0	4
6065	Electrochemical Impedance Spectroscopic Analysis of Sensitization-Based Solar Cells. <i>Israel Journal of Chemistry</i> , 2015, 55, 990-1001.	1.0	45
6066	Epitaxial $\text{Bi}_2\text{FeCrO}_6$ Multiferroic Thin Film as a New Visible Light Absorbing Photocathode Material. <i>Small</i> , 2015, 11, 4018-4026.	5.2	73
6067	Ultrathin 2D Nanolayer of $\text{RuO}_2$ Effectively Enhances Charge Separation in the Photochemical Processes of $\text{TiO}_2$ . <i>Small</i> , 2015, 11, 4469-4474.	5.2	12
6068	Efficient Photoelectrochemical Water Oxidation over Hydrogen-Reduced Nanoporous $\text{BiVO}_4$ with $\text{Ni}^{\text{II}}$ Electrocatalyst. <i>ChemElectroChem</i> , 2015, 2, 1385-1395.	1.7	50
6069	<i>In situ</i> thermal polymerization of an ionic liquid monomer for quasi-solid-state dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
6070	Transformations of PTCDA structures on rutile $\text{TiO}_2$ induced by thermal annealing and intermolecular forces. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1498-1507.	1.5	11
6071	Study of the Plasmon Energy Transfer Processes in Dye Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	14
6072	LA SCIENZA DEI MATERIALI. Istituto Lombardo - Accademia Di Scienze E Lettere - Rendiconti Di Scienze, 2015, , .	0.0	0
6073	Photodegradation Study of Toluidine Blue Dye in Aqueous Solution using Magnesium Oxide as a Photocatalyst. <i>International Journal of Chemistry</i> , 2015, 7, 143.	0.3	13
6074	Chalcopyrite Thin Film Materials for Photoelectrochemical Hydrogen Evolution from Water under Sunlight. <i>Coatings</i> , 2015, 5, 293-311.	1.2	21
6075	Review on the Photocatalyst Coatings of $\text{TiO}_2$ : Fabrication by Mechanical Coating Technique and Its Application. <i>Coatings</i> , 2015, 5, 425-464.	1.2	22
6076	The Role of Porphyrin-Free-Base in the Electronic Structures and Related Properties of N-Fused Carbazole-Zinc Porphyrin Dye Sensitizers. <i>International Journal of Molecular Sciences</i> , 2015, 16, 27707-27720.	1.8	20
6077	The Electronic Structures and Optical Properties of Alkaline-Earth Metals Doped Anatase $\text{TiO}_2$ : A Comparative Study of Screened Hybrid Functional and Generalized Gradient Approximation. <i>Materials</i> , 2015, 8, 5508-5525.	1.3	25
6078	Investigation of Coral-Like $\text{Cu}_2\text{O}$ Nano/Microstructures as Counter Electrodes for Dye-Sensitized Solar Cells. <i>Materials</i> , 2015, 8, 5715-5729.	1.3	22

#	ARTICLE	IF	CITATIONS
6079	Development of Graphene Nano-Platelet Based Counter Electrodes for Solar Cells. <i>Materials</i> , 2015, 8, 5953-5973.	1.3	19
6080	Theoretical Verification of Photoelectrochemical Water Oxidation Using Nanocrystalline TiO <sub>2</sub> Electrodes. <i>Molecules</i> , 2015, 20, 9732-9744.	1.7	4
6081	Imaging the Ultrafast Photoelectron Transfer Process in Alizarin-TiO <sub>2</sub> . <i>Molecules</i> , 2015, 20, 13830-13853.	1.7	27
6082	Enhancing Solar Cell Efficiency Using Photon Upconversion Materials. <i>Nanomaterials</i> , 2015, 5, 1782-1809.	1.9	142
6083	Graphene-Based Materials for Photoanodes in Dye-Sensitized Solar Cells. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	49
6084	Electrodeposition of Thin Films for Low-cost Solar Cells. , 0, , .		6
6085	New Class of Ionic Liquids for Dye-Sensitized Solar Cells. , 2015, , .		4
6086	ZnO Hierarchical Nanostructure Photoanode in a CdS Quantum Dot-Sensitized Solar Cell. <i>PLoS ONE</i> , 2015, 10, e0138298.	1.1	5
6087	Enhanced Photovoltaic Properties of the Solar Cells Based on Cosensitization of CdS and Hydrogenation. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	1
6088	Morphological Effect of CNT/TiO <sub>2</sub> Nanocomposite Photoelectrodes Dye-Sensitized Solar Cell on Photovoltaic Performance with Various Annealing Temperatures. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-12.	1.4	6
6089	Nanotechnological Advances in Catalytic Thin Films for Green Large-Area Surfaces. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-20.	1.5	9
6090	Theoretical Studies of Electronic Structure and Photophysical Properties of a Series of Indoline Dyes with Triphenylamine Ligand. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	1.5	10
6091	The <i>Cortinarius</i> Fungi Dyes as Sensitizers in Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-6.	1.4	11
6092	Facile Synthesis of ZnO@TiO <sub>2</sub> Core-Shell Nanorod Thin Films for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-5.	1.5	4
6093	Achieving Enhanced Dye-Sensitized Solar Cell Performance by TiCl <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> -Doped TiO <sub>2</sub> Nanotube Array Photoelectrodes. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	5
6094	Sea-Urchin-Like ZnO Nanoparticle Film for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	5
6095	Surface Morphology and Growth of Anodic Titania Nanotubes Films: Photoelectrochemical Water Splitting Studies. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	7
6096	Applications of Mesoporous Ordered Semiconductor Materials – Case Study of TiO <sub>2</sub> . , 0, , .		5

#	ARTICLE	IF	CITATIONS
6099	The relationship between the boron dipyrromethene (BODIPY) structure and the effectiveness of homogeneous and heterogeneous solar hydrogen-generating systems as well as DSSCs. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9716-9729.	1.3	54
6100	Enhanced photocurrent density of hematite thin films on FTO substrates: effect of post-annealing temperature. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16145-16150.	1.3	25
6101	Parameters influencing the photo-induced electron transfer from tryptophan-containing peptides to a Ru <sup>II</sup> complex: a systematic study. <i>Faraday Discussions</i> , 2015, 185, 267-284.	1.6	4
6102	Highly-ordered maghemite/reduced graphene oxide nanocomposites for high-performance photoelectrochemical water splitting. <i>RSC Advances</i> , 2015, 5, 29159-29166.	1.7	82
6103	Stable organic dyes based on the benzo[1,2-b:4,5-b' <sup>2</sup> ]dithiophene donor for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8083-8090.	5.2	30
6104	Selective etching of metastable phase induced an efficient CuIn <sub>0.7</sub> Ga <sub>0.3</sub> S <sub>2</sub> nano-photocathode for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7840-7848.	5.2	33
6105	A nanostructured chromium(iii) oxide/tungsten(vi) oxide p-n junction photoanode toward enhanced efficiency for water oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14046-14053.	5.2	57
6106	Plasmonic Enhancement of Photoactivity by Gold Nanoparticles Embedded in Hematite Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15506-15516.	1.5	74
6107	Flowerlike molybdenum sulfide/multi-walled carbon nanotube hybrid as Pt-free counter electrode used in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 173, 252-259.	2.6	63
6108	Pore-filled electrolyte membranes for facile fabrication of long-term stable dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 173, 425-431.	2.6	5
6109	Tetraindole-based saddle-shaped organic dyes for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 121, 152-158.	2.0	15
6110	Quantum dynamical simulation of photoinduced electron transfer processes in dye-semiconductor systems: theory and application to coumarin 343 at TiO <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2015, 27, 134202.	0.7	18
6111	Immobilizing Ru(bda) Catalyst on a Photoanode via Electrochemical Polymerization for Light-Driven Water Splitting. <i>ACS Catalysis</i> , 2015, 5, 3786-3790.	5.5	84
6112	Surface modification of semiconductor photoelectrodes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15655-15674.	1.3	132
6113	Bi-functional electrode for UV detector and supercapacitor. <i>Nano Energy</i> , 2015, 15, 445-452.	8.2	18
6114	Significant enhancement of power conversion efficiency for dye sensitized solar cell using 1D/3D network nanostructures as photoanodes. <i>Scientific Reports</i> , 2015, 5, 9305.	1.6	68
6115	Ni-Ci oxygen evolution catalyst integrated BiVO <sub>4</sub> photoanodes for solar induced water oxidation. <i>RSC Advances</i> , 2015, 5, 47080-47089.	1.7	15
6116	Partially Oxidized Sub-10 nm MnO Nanocrystals with High Activity for Water Oxidation Catalysis. <i>Scientific Reports</i> , 2015, 5, 10279.	1.6	99

#	ARTICLE	IF	CITATIONS
6117	Metal-free organic sensitizers with narrow absorption in the visible for solar cells exceeding 10% efficiency. <i>Energy and Environmental Science</i> , 2015, 8, 2010-2018.	15.6	124
6118	Highly crystalline Titania nanotube arrays realized by hydrothermal vapor route and used as front-illuminated photoanode in dye sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 283, 443-451.	4.0	12
6119	Hierarchical nanowire arrays based on carbon nanotubes and Co <sub>3</sub> O <sub>4</sub> decorated ZnO for enhanced photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13731-13737.	5.2	54
6120	Laser-Induced Anatase-to-Rutile Transition in TiO <sub>2</sub> Nanoparticles: Promotion and Inhibition Effects by Fe and Al Doping and Achievement of Micropatterning. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11965-11974.	1.5	39
6121	Co-sensitization of 3D bulky phenothiazine-cored photosensitizers with planar squaraine dyes for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13848-13855.	5.2	52
6122	Size-controlled synthesis of dispersed equiaxed amorphous TiO <sub>2</sub> nanoparticles. <i>Ceramics International</i> , 2015, 41, 9057-9062.	2.3	18
6123	Variation in Surface Ionization Potentials of Pristine and Hydrated BiVO <sub>4</sub> . <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2379-2383.	2.1	36
6124	Significantly Enhanced Visible Light Photoelectrochemical Activity in TiO <sub>2</sub> Nanowire Arrays by Nitrogen Implantation. <i>Nano Letters</i> , 2015, 15, 4692-4698.	4.5	159
6125	Electrochemical luminescence modulation in a Eu(III) complex-modified TiO <sub>2</sub> electrode. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7135-7142.	2.7	30
6126	Efficient charge separation based on type-II g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> -B nanowire/tube heterostructure photocatalysts. <i>Dalton Transactions</i> , 2015, 44, 13030-13039.	1.6	69
6127	Influence of substrate temperature and annealing on structural and optical properties of TiO <sub>2</sub> films deposited by reactive e-beam evaporation. <i>Thin Solid Films</i> , 2015, 591, 224-229.	0.8	14
6128	Advances and Recent Trends in Heterogeneous Photo(Electro)-Catalysis for Solar Fuels and Chemicals. <i>Molecules</i> , 2015, 20, 6739-6793.	1.7	61
6129	Carbon coating stabilized Ti <sup>3+</sup> -doped TiO <sub>2</sub> for photocatalytic hydrogen generation under visible light irradiation. <i>Dalton Transactions</i> , 2015, 44, 12812-12817.	1.6	57
6130	Chronoabsorptometry To Investigate Conduction-Band-Mediated Electron Transfer in Mesoporous TiO <sub>2</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14929-14937.	1.5	5
6131	Cathodic and anodic photocurrents generation from melem and its derivatives. <i>RSC Advances</i> , 2015, 5, 26675-26679.	1.7	27
6132	Synthesis and study of electrochemical and optical properties of substituted perylenemonoimides in solutions and on solid surfaces. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13332-13339.	5.2	2
6133	High-performance conductive materials based on the selective location of carbon black in poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.9	33
6134	Synthesis of PbS/Ni <sup>2+</sup> doped CdS quantum dots cosensitized solar cells: Enhanced power conversion efficiency and durability. <i>Electrochimica Acta</i> , 2015, 173, 812-818.	2.6	24

#	ARTICLE	IF	CITATIONS
6135	Directly hydrothermal growth of antimony sulfide on conductive substrate as efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 174, 127-132.	2.6	26
6136	Selective formation of hydrogen peroxide by oxygen reduction on TiO <sub>2</sub> nanotubes in alkaline media. <i>Electrochimica Acta</i> , 2015, 174, 557-562.	2.6	25
6137	Nanoparticle-based screen printing of copper zinc tin sulfide thin film as photocathode for quantum dot sensitized solar cell. <i>Materials Letters</i> , 2015, 158, 198-201.	1.3	6
6138	Electrochemical synthesis of nanosized TiO <sub>2</sub> nanopowder involving choline chloride based ionic liquids. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 199, 87-95.	1.7	23
6139	n-Fe <sub>2</sub> O <sub>3</sub> to N <sup>+</sup> -TiO <sub>2</sub> Heterojunction Photoanode for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13314-13321.	4.0	47
6140	Time Varied Morphology Controllable Fabrication of NiS Nanosheets Structured Thin Film and its Application as a Counter Electrode for QDSSC. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11419-11429.	1.5	35
6141	A Metal-Free $\pi$ -Annulated Thienocyclopentaperylene Dye: Power Conversion Efficiency of 12% for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5994-5998.	7.2	196
6142	Rationally Designed $\pi$ Heterojunction with Highly Efficient Solar Hydrogen Evolution. <i>ChemSusChem</i> , 2015, 8, 1218-1225.	3.6	87
6143	Electronic reorganization triggered by electron transfer: The intervalence charge transfer of a Fe <sup>3+</sup> /Fe <sup>2+</sup> bimetallic complex. <i>Journal of Computational Chemistry</i> , 2015, 36, 861-869.	1.5	14
6145	Nanoscience Advances in CBRN Agent Detection, Information and Energy Security: An Introduction. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2015, , 3-13.	0.5	1
6146	Effect of short chain iodoalkane solvent additives on photovoltaic performance of poly(3-hexylthiophene) and phenyl-C61-butyric acid methyl ester based bulk heterojunction solar cells. <i>Thin Solid Films</i> , 2015, 589, 272-277.	0.8	4
6147	Photovoltaic performance of long-chain poly(triphenylamine-phenothiazine) dyes with a tunable $\pi$ -bridge for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14217-14227.	5.2	35
6148	<sup>1</sup> Rational design of a charge shunt: modification upon crystal facet engineering of semiconductor photocatalysts. <i>Chemical Communications</i> , 2015, 51, 11186-11189.	2.2	22
6149	Heterocyclic azo dyes for dye sensitized solar cells: A quantum chemical study. <i>Computational and Theoretical Chemistry</i> , 2015, 1066, 94-99.	1.1	64
6150	Visible-light sensitization of TiO <sub>2</sub> photocatalysts via wet chemical N-doping for the degradation of dissolved organic compounds in wastewater treatment: a review. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	36
6151	Synthesis of visible light-responsive cobalt-doped TiO <sub>2</sub> nanoparticles with tunable optical band gap. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 424-435.	1.1	29
6152	Thermo photo-electrochemical effect in n-InP/aqueous solution of orange dye/C cell. <i>Electronic Materials Letters</i> , 2015, 11, 259-265.	1.0	4
6153	Alternative route for the preparation of Zr-doped TiO <sub>2</sub> layers for energy and environmental applications. <i>Ceramics International</i> , 2015, 41, 9899-9909.	2.3	18

#	ARTICLE	IF	CITATIONS
6154	Nitrogen-doped porous carbon prepared by a facile soft-templating process as low-cost counter electrode for High-performance dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2015, 38, 234-239.	1.9	17
6155	Electrochemical deposition of molybdenum sulfide thin films on conductive plastic substrates as platinum-free flexible counter electrodes for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2015, 584, 52-60.	0.8	24
6156	Photoelectrochemical Behavior of Compact and Inverse Opal Tungsten Trioxide Films: Surface Area and Charge Transfer Properties. <i>Journal of the Electrochemical Society</i> , 2015, 162, H449-H452.	1.3	6
6157	Enhancement Mechanism of the Conversion Efficiency of Dye-Sensitized Solar Cells Based on Nitrogen-, Fluorine-, and Iodine-Doped TiO <sub>2</sub> Photoanodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13425-13432.	1.5	21
6158	High-efficiency dye-sensitized solar cells based on electrospun TiO <sub>2</sub> multi-layered composite film photoanodes. <i>Energy</i> , 2015, 86, 196-203.	4.5	56
6159	Quantum Dots: Electrochemiluminescent and Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2015, 87, 9520-9531.	3.2	200
6160	The cyclic nature of porosity in anodic TiO <sub>2</sub> nanotube arrays. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3692-3698.	5.2	15
6161	Highly sensitive and selective room-temperature formaldehyde sensors using hollow TiO <sub>2</sub> microspheres. <i>Sensors and Actuators B: Chemical</i> , 2015, 219, 158-163.	4.0	128
6162	Crystalline TiO <sub>2</sub> : A Generic and Effective Electron-Conducting Protection Layer for Photoanodes and -cathodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15019-15027.	1.5	85
6163	Enhanced Electrocatalytic Activity by RGO/MWCNTs/NiO Counter Electrode for Dye-sensitized Solar Cells. <i>Nano-Micro Letters</i> , 2015, 7, 298-306.	14.4	41
6164	Preparation and Photocatalytic Property of Nickel-Doped Titanium Dioxide Nanotubes. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 1576-1579.	0.6	5
6165	Nitrogen plasma modified CVD grown graphene as counter electrodes for bifacial dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 173, 715-720.	2.6	40
6166	Co-assembly of photosystem II/reduced graphene oxide multilayered biohybrid films for enhanced photocurrent. <i>Nanoscale</i> , 2015, 7, 10908-10911.	2.8	55
6167	Z-scheme water splitting under visible light irradiation over powdered metal-complex/semiconductor hybrid photocatalysts mediated by reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13283-13290.	5.2	65
6168	Fabrication, characterization and photoelectrochemical behavior of Fe@TiO <sub>2</sub> nanotubes composite photoanodes for solar water splitting. <i>Journal of Electroanalytical Chemistry</i> , 2015, 751, 43-48.	1.9	149
6169	Cost-effective and morphology controllable PVP based highly efficient CuS counter electrodes for high-efficiency quantum dot-sensitized solar cells. <i>Dalton Transactions</i> , 2015, 44, 11340-11351.	1.6	35
6170	A long-term analysis of Pt counter electrodes for Dye-sensitized Solar Cells exploiting a microfluidic housing system. <i>Materials Chemistry and Physics</i> , 2015, 161, 74-83.	2.0	7
6171	Surface modification of TiO <sub>2</sub> by an ionic liquid electrolyte in dye-sensitized solar cells using a molecular insulator. <i>RSC Advances</i> , 2015, 5, 33855-33862.	1.7	4

#	ARTICLE	IF	CITATIONS
6172	Deposition of porous titanium oxide thin films as anode material for dye sensitized solar cells. Vacuum, 2015, 114, 213-220.	1.6	27
6173	Ag nanoparticle-deposited TiO <sub>2</sub> nanotube arrays for electrodes of Dye-sensitized solar cells. Nanoscale Research Letters, 2015, 10, 219.	3.1	33
6174	Conical-shaped titania nanotubes for optimized light management in DSSCs reach back-side illumination efficiencies > 8%. Journal of Materials Chemistry A, 2015, 3, 12603-12608.	5.2	27
6175	Semiconductors for Photocatalytic and Photoelectrochemical Solar Water Splitting., 2015, , 1-56.		5
6176	One-pot solvothermal synthesis of wurtzite Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals. Materials Letters, 2015, 158, 13-16.	1.3	11
6177	Controlling the nanostructure and stability of a-C:H:N plasma polymers. Thin Solid Films, 2015, 581, 2-6.	0.8	17
6178	Single-source mediated facile electrosynthesis of p-Cu <sub>2</sub> S thin films on TCO (SnO <sub>2</sub> :F) with enhanced photocatalytic activities. RSC Advances, 2015, 5, 52235-52242.	1.7	9
6179	Uniform Doping of Titanium in Hematite Nanorods for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 14072-14078.	4.0	43
6180	Local electronic structure and photoelectrochemical activity of partial chemically etched Ti-doped hematite. Surface Science, 2015, 641, 310-313.	0.8	16
6181	Zinc-doped SnO <sub>2</sub> nanocrystals as photoanode materials for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 8076-8082.	5.2	44
6182	Shifting the Sun: Solar Spectral Conversion and Extrinsic Sensitization in Natural and Artificial Photosynthesis. Advanced Science, 2015, 2, 1500218.	5.6	77
6183	Comparative Study on the Influence of TiO <sub>2</sub> Precursors on ZnO-Based Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2015, 54, 12639-12645.	1.8	15
6184	The search for efficient electrocatalysts as counter electrode materials for dye-sensitized solar cells: mechanistic study, material screening and experimental validation. NPG Asia Materials, 2015, 7, e226-e226.	3.8	52
6185	Charge Recombination Dynamics in Sensitized SnO <sub>2</sub> /TiO <sub>2</sub> Core/Shell Photoanodes. Journal of Physical Chemistry C, 2015, 119, 28353-28360.	1.5	59
6186	Characterization of graphene-oxide-based composite structures as counter electrodes for dye-sensitized solar cells. Journal of the Korean Physical Society, 2015, 67, 1904-1909.	0.3	5
6187	A hemin binding G-quadruplex/Pb <sup>2+</sup> complex to construct a visible light activated photoelectrochemical sensor on a ZnO/BiOI heterostructure. Analytical Methods, 2015, 7, 9340-9346.	1.3	19
6188	Production and testing of Dye Sensitized Solar Cell. , 2015, , .		2
6189	Suspension of electron-hole recombination in a dye-sensitized solar cell through simultaneous optimization of micro and electronic structures. Advanced Powder Technology, 2015, 26, 1555-1562.	2.0	3

#	ARTICLE	IF	CITATIONS
6190	PEDOT:PSS assisted preparation of a graphene/nickel cobalt oxide hybrid counter electrode to serve in efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 100159-100168.	1.7	15
6191	Low-Temperature Thermally Reduced Molybdenum Disulfide as a Pt-Free Counter Electrode for Dye-Sensitized Solar Cells. Nanoscale Research Letters, 2015, 10, 446.	3.1	34
6192	Facile fabrication of TiO <sub>2</sub> nanoparticle@TiO <sub>2</sub> nanofiber composites by co-electrospinning@electrospraying for dye-sensitized solar cells. Journal of Energy Chemistry, 2015, 24, 762-769.	7.1	16
6193	Role of water in TiO <sub>2</sub> screen-printing inks for dye-sensitized solar cells. Solar Energy, 2015, 122, 497-507.	2.9	16
6194	Pt@Co and Pt@Ni hollow nanospheres supported with PEDOT:PSS used as high performance counter electrodes in dye-sensitized solar cells. Solar Energy, 2015, 122, 727-736.	2.9	27
6195	Dynamics of Interfacial Charge Transfer States and Carriers Separation in Dye-Sensitized Solar Cells: A Time-Resolved Terahertz Spectroscopy Study. Journal of Physical Chemistry C, 2015, 119, 26266-26274.	1.5	31
6196	Ultrathin CoOOH Oxides Nanosheets Realizing Efficient Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2015, 119, 26362-26366.	1.5	43
6197	Enhanced Performance of Photoelectrochemical Water Splitting with ITO@Fe <sub>2</sub> O <sub>3</sub> Core@Shell Nanowire Array as Photoanode. ACS Applied Materials & Interfaces, 2015, 7, 26482-26490.	4.0	60
6198	Tailored Synthesis of Porous TiO <sub>2</sub> Nanocubes and Nanoparallelepiped with Exposed {111} Facets and Mesoscopic Void Space: A Superior Candidate for Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 26022-26035.	4.0	36
6199	A faradaic impedance study on the kinetic properties of water photosplitting at illuminated TiO <sub>2</sub> /solution interface. Journal of Solid State Electrochemistry, 2015, 19, 3411-3423.	1.2	5
6200	Effects of Zn amount on the properties of Zn-Cu <sub>2</sub> O composite films grown for PEC photoelectrodes by using electrochemical deposition. Journal of the Korean Physical Society, 2015, 67, 1273-1277.	0.3	3
6201	Fabrication and Characterization of Titania (TiO <sub>2</sub> ) Nanotube Dye-Sensitized Solar Cells by Anodization Method. Integrated Ferroelectrics, 2015, 165, 153-158.	0.3	2
6202	Alternative natural dyes in water purification: Anthocyanin as TiO <sub>2</sub> -sensitizer in rhodamin B photoelectrodegradation. , 2015, , .		1
6203	Synthesis and Performance of New Organic Dyes and Functional Fullerenes for Organic Solar Cells. ACS Symposium Series, 2015, , 193-236.	0.5	2
6204	Efficiency Improvement of Dye-sensitized Solar Cells by Phosphor (Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> , Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> ) Co-doped TiO <sub>2</sub> Electrodes. Molecular Crystals and Liquid Crystals, 2015, 620, 83-90.	0.4	2
6205	Hierarchical SnO <sub>2</sub> microspheres prepared by hydrothermal process for efficient improvement of dye-sensitized solar cell properties. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	4
6206	Optical properties of dye based on hydroxamate improved with designed tridentate ligands for dye sensitized solar cell: a theoretical study. Chemical Research in Chinese Universities, 2015, 31, 830-834.	1.3	3
6207	Zn-Co layered double hydroxide modified hematite photoanode for enhanced photoelectrochemical water splitting. Applied Surface Science, 2015, 358, 436-442.	3.1	52



#	ARTICLE	IF	CITATIONS
6208	Direct Growth of Flexible and Scalable Photocathodes from $\text{Zn}$ -Brass Substrates. ACS Sustainable Chemistry and Engineering, 2015, 3, 3197-3204.	3.2	9
6209	Optimum Solutions for a Photovoltaic System to Produce Solar Power More Efficiently. , 2015, , .		0
6210	Predicting larger absorption cross-section in porphyrin dyes using DFT calculations. Journal of Porphyrins and Phthalocyanines, 2015, 19, 1270-1278.	0.4	8
6211	Design and construction of a film of mesoporous single-crystal rutile $\text{TiO}_2$ rod arrays for photoelectrochemical water oxidation. Chinese Journal of Catalysis, 2015, 36, 2171-2177.	6.9	19
6212	Effect of N and Fe codoping on the electronic structure and optical properties of $\text{TiO}_2$ from first-principles study. Journal of Semiconductors, 2015, 36, 102003.	2.0	9
6213	Solid nanocomposite polymer electrolyte for enhancement in stability of natural dye-sensitized solar cell. Materials Research Innovations, 2015, 19, 328-331.	1.0	1
6214	Nanoparticles of Cadmium Nitrate and Cobalt Nitrate Complexes Bearing Phosphoramidate Ligands Designed for Application in Dye Sensitized Solar Cells. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.1	18
6215	Direct hydrogen production from lignocellulose by the newly isolated Thermoanaerobacterium thermosaccharolyticum strain DD32. RSC Advances, 2015, 5, 99781-99788.	1.7	34
6216	Hierarchical DSSC structures based on "single walled" $\text{TiO}_2$ nanotube arrays reach a back-side illumination solar light conversion efficiency of 8%. Energy and Environmental Science, 2015, 8, 849-854.	15.6	111
6217	Electrocatalytic Reduction of Nitrogen and Carbon Dioxide to Chemical Fuels: Challenges and Opportunities for a Solar Fuel Device. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 47-57.	1.7	37
6218	Low cost and large-area fabrication of self-cleaning coating on polymeric surface based on electroless-plating-like solution deposition approach. RSC Advances, 2015, 5, 10159-10164.	1.7	13
6219	Efficient improvement of photoelectrochemical activity for multiple semiconductor ( $\text{CdS/PbS/ZnS}$ ) co-sensitized $\text{TiO}_2$ photoelectrodes by hydrogen treatment. RSC Advances, 2015, 5, 6462-6469.	1.7	16
6220	Aerosol-assisted chemical vapor deposition of metal oxide thin films for photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2015, 40, 2115-2131.	3.8	33
6221	Photoelectrochemical characterization of n-type and p-type thin-film nanocrystalline $\text{Cu}_2\text{ZnSnSe}_4$ photocathodes. Journal of Environmental Chemical Engineering, 2015, 3, 297-303.	3.3	25
6222	Size-dependent surface energy and Tolman length of $\text{TiO}_2$ and $\text{SnO}_2$ nanoparticles. Physica B: Condensed Matter, 2015, 461, 101-105.	1.3	14
6223	Nanomechanical behavior of 3D porous metal-ceramic nanocomposite Bi/Bi $_2$ O $_3$ films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 150-158.	2.6	4
6224	Graphene-wrapped $\text{CuInS}_2$ composites for efficient dye-sensitized solar cells. Functional Materials Letters, 2015, 08, 1550011.	0.7	4
6225	$\text{Fe}_3\text{W}_3\text{C/WC}$ /Graphitic Carbon Ternary Nanojunction Hybrids for Dye-Sensitized Solar Cells. ChemSusChem, 2015, 8, 726-733.	3.6	16

#	ARTICLE	IF	CITATIONS
6226	Development of Lead Iodide Perovskite Solar Cells Using Three-Dimensional Titanium Dioxide Nanowire Architectures. <i>ACS Nano</i> , 2015, 9, 564-572.	7.3	125
6227	Spectroscopic insights on selfassembly and excited state interactions between rhodamine and phthalocyanine molecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 13-19.	2.0	3
6228	Tungsten doping of Ta <sub>3</sub> N <sub>5</sub> -nanotubes for band gap narrowing and enhanced photoelectrochemical water splitting efficiency. <i>Electrochemistry Communications</i> , 2015, 51, 85-88.	2.3	44
6229	Near-band-gap luminescence from TiO <sub>2</sub> nanograss/nanotube hierarchical membranes. <i>Canadian Journal of Chemistry</i> , 2015, 93, 106-112.	0.6	6
6230	Electrically conductive anti-reflecting nanostructure for chalcogenide thin-film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 813-820.	4.4	2
6231	Highly efficient quantum dot-sensitized TiO <sub>2</sub> solar cells based on multilayered semiconductors (ZnSe/CdS/CdSe). <i>Nanoscale</i> , 2015, 7, 3173-3180.	2.8	67
6232	Effect of Auxiliary Chromophores on the Optical, Electrochemical, and Photovoltaic Properties of Carbazole-Based Dyes. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 69-80.	1.3	10
6233	Polypyrrole thin films decorated with copper nanostructures as counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 282, 416-420.	4.0	18
6234	Controllable synthesis of hierarchical SnO <sub>2</sub> microspheres for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 280, 476-482.	4.0	43
6235	Comparison of some morphological and absorption properties of the nanoparticles Au/TiO <sub>2</sub> embedded films prepared by different technologies on the substrates for application in the plasmonic solar cell. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2015, 6, 015018.	0.7	7
6236	CdS quantum dots modified N-doped titania plates for the photocatalytic mineralization of diclofenac in water under visible light irradiation. <i>Journal of Molecular Catalysis A</i> , 2015, 399, 79-85.	4.8	27
6237	Comparison of photocatalytic and transport properties of TiO <sub>2</sub> and ZnO nanostructures for solar-driven water splitting. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7775-7786.	1.3	234
6238	Solvothermal synthesis of stable nanoporous polymeric bases-crystalline TiO <sub>2</sub> nanocomposites: visible light active and efficient photocatalysts for water treatment. <i>Nanotechnology</i> , 2015, 26, 085705.	1.3	8
6239	Recent progress in organic sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 23810-23825.	1.7	207
6240	Reduced graphene oxide-titania nanocomposite-modified photoanode for efficient dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2015, 39, 812-824.	2.2	54
6241	In situ preparation of a novel organo-inorganic 6,13-pentacenequinone-TiO <sub>2</sub> coupled semiconductor nanosystem: a new visible light active photocatalyst for hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4338-4344.	5.2	17
6242	The Interaction of Formic Acid with Zinc Oxide: A Combined Experimental and Theoretical Study on Single Crystal and Powder Samples. <i>Topics in Catalysis</i> , 2015, 58, 174-183.	1.3	32
6243	TiO <sub>2</sub> hierarchical nanostructures: Hydrothermal fabrication and application in dye-sensitized solar cells. <i>AIP Advances</i> , 2015, 5, .	0.6	22

#	ARTICLE	IF	CITATIONS
6244	Enhancing efficiency of CdS/TiO <sub>2</sub> nanorod arrays solar cell through improving the hydrophilicity of TiO <sub>2</sub> nanorod surface. <i>Solar Energy Materials and Solar Cells</i> , 2015, 136, 206-212.	3.0	23
6245	Application of Degenerately Doped Metal Oxides in the Study of Photoinduced Interfacial Electron Transfer. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7698-7711.	1.2	36
6246	Biophotovoltaics: oxygenic photosynthetic organisms in the world of bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2015, 8, 1092-1109.	15.6	232
6247	Enhancing the optical absorption of anthocyanins for dye-sensitized solar cells. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	24
6248	Unique 3D heterojunction photoanode design to harness charge transfer for efficient and stable photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2015, 8, 1348-1357.	15.6	104
6249	NiO-NF/MWCNT nanocomposite catalyst as a counter electrode for high performance dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015, 331, 333-338.	3.1	36
6250	Cyclic thiourea functionalized dyes with binary ĩ-conjugation segments on the performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 116, 146-154.	2.0	25
6251	Energy Security and Development. , 2015, , .		2
6252	Pentaceneâ€“fullerene bulk-heterojunction solar cell: A computational study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1036-1042.	0.9	32
6253	Visible-light wavelength matched microsphere assembly of TiO <sub>2</sub> superfine nanorods and the enhanced photovoltaic performance. <i>Journal of Alloys and Compounds</i> , 2015, 631, 202-208.	2.8	9
6254	Photoelectrochemical reduction of nitrates with visible light by nanoporous Si photoelectrode. <i>Electrochimica Acta</i> , 2015, 177, 366-369.	2.6	11
6255	Ultrahigh density sub-10Ânm TiO <sub>2</sub> nanosheet arrays with high aspect ratios via the spacer-defined double-patterning process. <i>Polymer</i> , 2015, 60, 267-273.	1.8	3
6257	Three-Dimensional TiO <sub>2</sub> /ZnO Hybrid Array as a Heterostructured Anode for Efficient Quantum-Dot-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5199-5205.	4.0	82
6258	Tungsten trioxide nanoplate array supported platinum as a highly efficient counter electrode for dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 5712-5718.	2.8	22
6259	Improved Performance of Dye-Sensitized Solar Cells Fabricated from a Coumarin NKX-2700 Dye-Sensitized TiO <sub>2</sub> /MgO Coreâ€“Shell Photoanode with an HfO <sub>2</sub> Blocking Layer and a Quasi-Solid-State Electrolyte. <i>Journal of Electronic Materials</i> , 2015, 44, 967-976.	1.0	9
6260	Vertically aligned TiO <sub>2</sub> /(CdS, CdTe, CdSTe) core/shell nanowire array for photoelectrochemical hydrogen generation. <i>Journal of Power Sources</i> , 2015, 280, 5-11.	4.0	40
6261	CdSe/ZnS-doped silicophosphate films prepared by solâ€“gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 660-665.	1.1	6
6262	Novel heteroleptic Ru( <sup>ii</sup> ) complexes: synthesis, characterization and application in dye-sensitized solar cells. <i>Dalton Transactions</i> , 2015, 44, 5369-5378.	1.6	10

#	ARTICLE	IF	CITATIONS
6263	Facile production of ultrathin graphitic carbon nitride nanoplatelets for efficient visible-light water splitting. <i>Nano Research</i> , 2015, 8, 1718-1728.	5.8	154
6264	Charge Transport at Ti-Doped Hematite (001)/Aqueous Interfaces. <i>Chemistry of Materials</i> , 2015, 27, 1665-1673.	3.2	26
6265	Functional tuning of organic dyes containing 2,7-carbazole and other electron-rich segments in the conjugation pathway. <i>RSC Advances</i> , 2015, 5, 17953-17966.	1.7	20
6266	A Competitive Electron Transport Mechanism in Hierarchical Homogeneous Hybrid Structures Composed of TiO <sub>2</sub> Nanoparticles and Nanotubes. <i>Chemistry of Materials</i> , 2015, 27, 1359-1366.	3.2	30
6267	Organic-inorganic halide perovskite based solar cells – revolutionary progress in photovoltaics. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 315-335.	3.0	70
6268	Influence of MoO <sub>3</sub> (110) Crystalline Plane on Its Self-Charging Photoelectrochemical Properties. <i>Scientific Reports</i> , 2014, 4, 7428.	1.6	58
6269	Annealing-free synthesis of carbonaceous Nb <sub>2</sub> O <sub>5</sub> microspheres by flame thermal method and enhanced photocatalytic activity for hydrogen evolution. <i>Materials Research Bulletin</i> , 2015, 66, 51-58.	2.7	48
6270	Concentration-driven phase control for low temperature synthesis of phase-pure anatase and rutile titanium oxide. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 280-286.	5.0	2
6271	High efficiency flexible fiber-type dye-sensitized solar cells with multi-working electrodes. <i>Nano Energy</i> , 2015, 12, 501-509.	8.2	54
6272	Stability improvement of gel-state dye-sensitized solar cells by utilization the co-solvent effect of propionitrile/acetonitrile and 3-methoxypropionitrile/acetonitrile with poly(acrylonitrile-co-vinyl) Tj ETQq1 1 0.784314.orgBT /Ove	1.0	10
6273	Electrical and photovoltaic characteristics of Ni/(n)Bi <sub>2</sub> S <sub>3</sub> Schottky barrier junction. <i>Superlattices and Microstructures</i> , 2015, 80, 39-52.	1.4	5
6274	Electrocatalytic performance of Pd nanoparticles supported on TiO <sub>2</sub> -MWCNTs for methanol, ethanol, and isopropanol in alkaline media. <i>Journal of Electroanalytical Chemistry</i> , 2015, 741, 56-63.	1.9	30
6275	Photoelectrochemical water splitting properties of hydrothermally-grown ZnO nanorods with controlled diameters. <i>Electronic Materials Letters</i> , 2015, 11, 65-72.	1.0	26
6276	Developments in conducting polymer based counter electrodes for dye-sensitized solar cells – An overview. <i>European Polymer Journal</i> , 2015, 66, 207-227.	2.6	245
6277	Activation of Hematite Photoanodes for Solar Water Splitting: Effect of FTO Deformation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3810-3817.	1.5	108
6278	Quasiparticle Interfacial Level Alignment of Highly Hybridized Frontier Levels: H <sub>2</sub> O on TiO <sub>2</sub> (110). <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 239-251.	2.3	28
6279	Photophysical Study of a Self-Assembled Donor-Acceptor Two-Layer Film on TiO <sub>2</sub> . <i>Langmuir</i> , 2015, 31, 944-952.	1.6	19
6280	Near-Infrared Photoelectrochemical Conversion via Photoinduced Charge Separation in Supramolecular Complexes of Anionic Phthalocyanines with Li <sup>+</sup> @C <sub>60</sub> . <i>Journal of Physical Chemistry B</i> , 2015, 119, 7690-7697.	1.2	17

#	ARTICLE	IF	CITATIONS
6281	Enhanced Photoelectrochemical Water Oxidation on Nanostructured Hematite Photoanodes via p-CaFe <sub>2</sub> O <sub>4</sub> /n-Fe <sub>2</sub> O <sub>3</sub> Heterojunction Formation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5864-5871.	1.5	130
6282	Anatase nanoparticles surface modified with fused ring salicylate-type ligands (1-hydroxy-2-naphthoic) Tj ETQq1 1 0,784314 ggBT /Ov	2.8	25
6283	All First Row Transition Metal Oxide Photoanode for Water Splitting Based on Cu <sub>3</sub> V <sub>2</sub> O <sub>8</sub> . <i>Chemistry of Materials</i> , 2015, 27, 1005-1013.	3.2	105
6284	Solar fuels vis-À-vis electricity generation from sunlight: The current state-of-the-art (a review). <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 904-932.	8.2	54
6285	TiO <sub>2</sub> /Bi <sub>2</sub> S <sub>3</sub> core-shell nanowire arrays for photoelectrochemical hydrogen generation. <i>RSC Advances</i> , 2015, 5, 13544-13549.	1.7	44
6286	Application of the Tris(acetylacetonato)iron(III)/(II) Redox Couple in p-Type Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3758-3762.	7.2	184
6287	Hierarchical titania nanostructures prepared with focused ion beam-assisted anodisation of titanium in an aqueous electrolyte. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 107-113.	1.1	4
6288	Role of TiO <sub>2</sub> Surface Passivation on Improving the Performance of p-InP Photocathodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2308-2313.	1.5	127
6289	Optical properties of SiO <sub>2</sub> @M (M = Au, Pd, Pt) core-shell nanoparticles: material dependence and damping mechanisms. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2282-2290.	2.7	39
6290	A novel tri-layered photoanode of hierarchical ZnO microspheres on 1D ZnO nanowire arrays for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 16678-16683.	1.7	25
6291	Electrolytes in Dye-Sensitized Solar Cells. <i>Chemical Reviews</i> , 2015, 115, 2136-2173.	23.0	852
6292	Bifunctional TiO <sub>2</sub> underlayer for Fe <sub>2</sub> O <sub>3</sub> nanorod based photoelectrochemical cells: enhanced interface and Ti <sup>4+</sup> doping. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5007-5013.	5.2	90
6293	Visible Light Responsive Photoassisted Electrocatalytic System Based on CdS NCs Decorated TiO <sub>2</sub> Nano-tube Photoanode and Activated Carbon Containing Cathode for Wastewater Treatment. <i>Electrochimica Acta</i> , 2015, 156, 94-101.	2.6	15
6294	CdS/CdSe core/shell nanowall arrays for high sensitive photoelectrochemical sensors. <i>Journal of Alloys and Compounds</i> , 2015, 630, 94-99.	2.8	27
6295	Application of TiO <sub>2</sub> /RuO <sub>2</sub> /Ti electrodes modified with WO <sub>3</sub> in electro- and photoelectrochemical oxidation of Acid Orange 7 dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 302, 59-68.	2.0	17
6296	Theoretical Studies on Understanding the Feasibility of Porphyrin-Sensitized Graphene Quantum Dot Solar Cell. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3400-3407.	1.5	60
6297	Understanding and Controlling Nucleation and Growth of TiO <sub>2</sub> Deposited on Multiwalled Carbon Nanotubes by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3379-3387.	1.5	34
6298	Facile Synthesis of Hollow TiO <sub>2</sub> Single Nanocrystals with Improved Photocatalytic and Photoelectrochemical Activities. <i>ChemPlusChem</i> , 2015, 80, 688-696.	1.3	15

#	ARTICLE	IF	CITATIONS
6299	A DFT study of the effect of OH groups on the optical, electronic, and structural properties of TiO <sub>2</sub> nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5321-5327.	1.3	5
6300	Sponge-like porous TiO <sub>2</sub> /ZnO nanodonuts for high efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 280, 373-378.	4.0	23
6301	Effects of Number and Position of Meta and Para Carboxyphenyl Groups of Zinc Porphyrins in Dye-Sensitized Solar Cells: Structure-Performance Relationship. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1879-1891.	4.0	38
6302	Electron Collection in Host-Guest Nanostructured Hematite Photoanodes for Water Splitting: The Influence of Scaffold Doping Density. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4623-4630.	4.0	42
6303	Nonadiabatic Dynamics of Photoinduced Proton-Coupled Electron Transfer in a Solvated Phenol-Amine Complex. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2758-2768.	1.2	48
6306	Quasi-1D hyperbranched WO <sub>3</sub> nanostructures for low-voltage photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6110-6117.	5.2	41
6307	Activation of Ultrathin Films of Hematite for Photoelectrochemical Water Splitting via H <sub>2</sub> Treatment. <i>ChemSusChem</i> , 2015, 8, 1557-1567.	3.6	51
6308	Enhanced Electrical Transparency by Ultrathin LaAlO <sub>3</sub> Insertion at Oxide Metal/Semiconductor Heterointerfaces. <i>Nano Letters</i> , 2015, 15, 1622-1626.	4.5	24
6309	Double D-A-A Dye Linked by 2,2'-Bipyridine Dicarboxylic Acid: Influence of <i>para</i> and <i>meta</i> -Substituted Carboxyl Anchoring Group. <i>ChemPhysChem</i> , 2015, 16, 1035-1041.	1.0	6
6310	C@SiNW/TiO <sub>2</sub> Core-Shell Nanoarrays with Sandwiched Carbon Passivation Layer as High Efficiency Photoelectrode for Water Splitting. <i>Scientific Reports</i> , 2014, 4, 4897.	1.6	22
6311	Nanoenergy Materials. , 2015, , 255-291.		5
6312	Molybdenum Disulfide/Reduced Graphene Oxide-Carbon Nanotube Hybrids as Efficient Catalytic Materials in Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , 2015, 2, 720-725.	1.7	38
6313	Transforming Benzophenoxazine Laser Dyes into Chromophores for Dye-Sensitized Solar Cells: A Molecular Engineering Approach. <i>Advanced Energy Materials</i> , 2015, 5, 1401728.	10.2	11
6314	Morphological Influence of Polypyrrole Nanoparticles on the Performance of Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 155, 263-271.	2.6	42
6315	Double dye cubic-sensitized solar cell based on Förster resonant energy transfer. <i>RSC Advances</i> , 2015, 5, 10026-10032.	1.7	7
6317	Non-covalent construction of non-Pt counter electrodes for high performance dye-sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 240-248.	1.1	5
6318	A parametric study of visible-light sensitive TiO <sub>2</sub> photocatalysts synthesis via a facile sol-gel N-doping method. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1153-1165.	1.3	10
6319	Triarylamine-Free Pyrenoidazole-Containing Organic Dyes with Different Linkers for Dye-Sensitized Solar Cells. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 164-172.	1.3	24

#	ARTICLE	IF	CITATIONS
6320	Bilayer hollow/spindle-like anatase TiO <sub>2</sub> photoanode for high efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 278, 344-351.	4.0	62
6321	Highly Flexible Aqueous Photovoltaic Elastomer Gels Derived from Sulfonated Block Ionomers. <i>Advanced Energy Materials</i> , 2015, 5, 1401941.	10.2	20
6322	Cu <sub>2</sub> O/CuO photocathode with improved stability for photoelectrochemical water reduction. <i>RSC Advances</i> , 2015, 5, 10790-10794.	1.7	94
6323	The promotion effect of surface negative electrostatic field on the photogenerated charge separation of BiVO <sub>4</sub> and its contribution to the enhanced PEC water oxidation. <i>Chemical Communications</i> , 2015, 51, 2821-2823.	2.2	42
6324	Aerosol-Assisted CVD of Bismuth Vanadate Thin Films and Their Photoelectrochemical Properties. <i>Chemical Vapor Deposition</i> , 2015, 21, 41-45.	1.4	55
6325	Fluorene-Based Sensitizers with a Phenothiazine Donor: Effect of Mode of Donor Tethering on the Performance of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2249-2262.	4.0	84
6326	A solar-driven photocatalytic fuel cell with dual photoelectrode for simultaneous wastewater treatment and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3416-3424.	5.2	126
6327	A highly durable p-LaFeO <sub>3</sub> /n-Fe <sub>2</sub> O <sub>3</sub> photocell for effective water splitting under visible light. <i>Chemical Communications</i> , 2015, 51, 3630-3633.	2.2	83
6328	Tailoring of Energy Levels in D- $\pi$ -A Organic Dyes via Fluorination of Acceptor Units for Efficient Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2015, 5, 7711.	1.6	45
6329	Polythiophene/graphene composite as a highly efficient platinum-free counter electrode in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 157, 225-231.	2.6	65
6330	Highly-efficient quantum dot-sensitized solar cells based on Sn doped ZnO and CuS electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2145-2150.	1.1	9
6331	Fabrication of Au@Ag Core/Shell Nanoparticles Decorated TiO <sub>2</sub> Hollow Structure for Efficient Light-Harvesting in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 2055-2063.	4.0	96
6332	Ag-encapsulated Au plasmonic nanorods for enhanced dye-sensitized solar cell performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4659-4668.	5.2	65
6333	Enhancing Majority Carrier Transport in WO <sub>3</sub> Water Oxidation Photoanode via Electrochemical Doping. <i>Journal of the Electrochemical Society</i> , 2015, 162, H65-H71.	1.3	56
6334	Can 2-pyrone derivative act as an effective $\pi$ -linker for dye-sensitized solar cells: a theoretical study?. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	0
6335	Improving the photovoltaic performance of dye-sensitized solar cell by graphene/titania photoanode. <i>Electrochimica Acta</i> , 2015, 156, 261-266.	2.6	46
6336	Direct synthesis of pure single-crystalline Magn $\tilde{A}$ oli phase Ti <sub>8</sub> O <sub>15</sub> nanowires as conductive carbon-free materials for electrocatalysis. <i>Nanoscale</i> , 2015, 7, 2856-2861.	2.8	32
6337	Theoretical limits of photovoltaics efficiency and possible improvements by intuitive approaches learned from photosynthesis and quantum coherence. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 1073-1089.	8.2	153

#	ARTICLE	IF	CITATIONS
6338	A new method for the synthesis of monodisperse-porous titania microbeads by using polymethacrylate microbeads as template. <i>Microporous and Mesoporous Materials</i> , 2015, 207, 17-26.	2.2	8
6339	Anchoring Groups for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 3427-3455.	4.0	654
6340	High viscous light-scattering crystal growth inhibitors for solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 280, 90-96.	4.0	10
6341	Hierarchical CdS nanostructure by Lawesson's reagent and its enhanced photocatalytic hydrogen production. <i>RSC Advances</i> , 2015, 5, 13715-13721.	1.7	22
6342	Electrical control of optical emitter relaxation pathways enabled by graphene. <i>Nature Physics</i> , 2015, 11, 281-287.	6.5	99
6343	Carbonaceous Dye-Sensitized Solar Cell Photoelectrodes. <i>Advanced Science</i> , 2015, 2, 1400025.	5.6	39
6344	Ordered porous TiO <sub>2</sub> films obtained by freezing and the application in dye sensitized solar cells. <i>Current Applied Physics</i> , 2015, 15, 662-668.	1.1	23
6345	In Situ Controllable Growth of Cu <sub>2</sub> SnS <sub>3</sub> Film as Low-Cost Counter Electrodes for Dye-Sensitized Solar Cells. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 580-583.	1.5	7
6346	Square ferrite nanorods/carbon composite: synthesis and electromagnetic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 773-781.	1.1	6
6347	Quantitative structure-property relationship modeling of ruthenium sensitizers for solar cells applications: novel tools for designing promising candidates. <i>RSC Advances</i> , 2015, 5, 23865-23873.	1.7	14
6348	Sn-doped hematite films as photoanodes for efficient photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6751-6755.	5.2	51
6349	Computational Screening of 2D Materials for Photocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1087-1098.	2.1	641
6350	Laser ablation and deposition of titanium dioxide with ultrashort pulses at 527 nm. <i>Applied Physics B: Lasers and Optics</i> , 2015, 119, 445-452.	1.1	10
6351	Design of organic dyes for dye-sensitized solar cells: Extending $\pi$ -conjugation backbone via "Click" reaction to improve photovoltaic performances. <i>Dyes and Pigments</i> , 2015, 117, 108-115.	2.0	7
6352	Multifunctional alumina/titania hybrid blocking layer modified nanocrystalline titania films as efficient photoanodes in dye sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 282, 596-601.	4.0	38
6353	Photo-catalytic activity of BiVO <sub>4</sub> thin-film electrodes for solar-driven water splitting. <i>Applied Catalysis A: General</i> , 2015, 504, 266-271.	2.2	58
6354	Mixed P25 nanoparticles and large rutile particles as a top scattering layer to enhance performance of nanocrystalline TiO <sub>2</sub> based dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015, 337, 188-194.	3.1	28
6355	Enhanced charge collection in dye-sensitized solar cells utilizing collector-shell electrodes. <i>Journal of Power Sources</i> , 2015, 277, 343-349.	4.0	3



#	ARTICLE	IF	CITATIONS
6356	Hysteresis phenomena and rate fluctuations under conditions of glycerol photo-reforming reaction over CuOx/TiO2 catalysts. Applied Catalysis B: Environmental, 2015, 178, 201-209.	10.8	62
6357	One-pot sol-gel synthesis of reduced graphene oxide uniformly decorated zinc oxide nanoparticles in starch environment for highly efficient photodegradation of Methylene Blue. RSC Advances, 2015, 5, 21888-21896.	1.7	116
6358	Enhancement of photovoltaic properties of CH3NH3PbBr3 heterojunction solar cells by modifying mesoporous TiO2 surfaces with carboxyl groups. Journal of Materials Chemistry A, 2015, 3, 9264-9270.	5.2	69
6359	Photoelectrochemical Water Oxidation Efficiency of a Core/Shell Array Photoanode Enhanced by a Dual Suppression Strategy. ChemSusChem, 2015, 8, 1568-1576.	3.6	95
6360	DFT analysis of substituent effects on electron-donating efficacy of pyridine. Research on Chemical Intermediates, 2015, 41, 6859-6875.	1.3	6
6361	Screening donor groups of organic dyes for dye-sensitized solar cells. RSC Advances, 2015, 5, 22892-22898.	1.7	44
6362	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of $\text{Fe}_2\text{O}_3$ Photoanodes. Journal of Physical Chemistry C, 2015, 119, 5281-5292.	1.5	30
6363	Mass transport effect on the photovoltaic performance of ruthenium-based quasi-solid dye sensitized solar cells using cobalt based redox couples. Dyes and Pigments, 2015, 117, 83-91.	2.0	24
6364	SnX (X = S, Se) thin films as cost-effective and highly efficient counter electrodes for dye-sensitized solar cells. Chemical Communications, 2015, 51, 8108-8111.	2.2	46
6365	Mesoporous $\text{SnO}_2$ nanoparticle films as electron-transporting material in perovskite solar cells. RSC Advances, 2015, 5, 28424-28429.	1.7	154
6366	Arc-Melting to Narrow the Bandgap of Oxide Semiconductors. Advanced Materials, 2015, 27, 2589-2594.	11.1	52
6367	Simple preparation of lotus-root shaped meso-/macroporous TiO2 and their DSSC performances. Journal of Colloid and Interface Science, 2015, 448, 467-472.	5.0	18
6368	Solution processed ZnO rectangular prism as an effective photoanode material for dye sensitized solar cells. Materials Letters, 2015, 147, 119-122.	1.3	13
6369	Nanostructured Carbon Materials for Energy Conversion and Storage. RSC Catalysis Series, 2015, , 445-506.	0.1	0
6370	Probing Long-Lived Plasmonic-Generated Charges in $\text{TiO}_2/\text{Au}$ by High-Resolution X-ray Absorption Spectroscopy. Angewandte Chemie - International Edition, 2015, 54, 5413-5416.	7.2	67
6371	Synthesis and photovoltaic performance of asymmetric di-anchoring organic dyes. Dyes and Pigments, 2015, 122, 13-21.	2.0	22
6372	Methods of photoelectrode characterization with high spatial and temporal resolution. Energy and Environmental Science, 2015, 8, 2863-2885.	15.6	51
6373	Macro-mesoporous $\text{TiO}_2$ Microspheres for Highly Efficient Dye-Sensitized Solar Cells. Industrial & Engineering Chemistry Research, 2015, 54, 6692-6697.	1.8	14

#	ARTICLE	IF	CITATIONS
6374	Impact of carbon-fluorine doped titanium dioxide in the performance of an electrochemical sensing of dopamine and rosebengal sensitized solar cells. <i>AIP Advances</i> , 2015, 5, .	0.6	2
6375	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. <i>ACS Nano</i> , 2015, 9, 7113-7123.	7.3	102
6376	An ultrasensitive label-free immunosensor based on CdS sensitized Fe <sup>3+</sup> /TiO <sub>2</sub> with high visible-light photoelectrochemical activity. <i>Biosensors and Bioelectronics</i> , 2015, 74, 843-848.	5.3	41
6377	Calculation of TiO <sub>2</sub> Surface and Subsurface Oxygen Vacancy by the Screened Exchange Functional. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18160-18166.	1.5	136
6378	Bulk intermixing-type perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /TiO <sub>2</sub> nanorod hybrid solar cells. <i>Nanoscale</i> , 2015, 7, 14532-14537.	2.8	15
6379	Methods and mechanism for improvement of photocatalytic activity and stability of Ag <sub>3</sub> PO <sub>4</sub> : A review. <i>Journal of Alloys and Compounds</i> , 2015, 649, 910-932.	2.8	182
6380	Highly porous ZnO nanosheets self-assembled in rosette-like morphologies for dye-sensitized solar cell application. <i>New Journal of Chemistry</i> , 2015, 39, 7961-7970.	1.4	17
6381	Electronic Structure of the Perylene-Zinc Oxide Interface: Computational Study of Photoinduced Electron Transfer and Impact of Surface Defects. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18843-18858.	1.5	10
6382	A 3D printed microliquid jet with an adjustable nozzle diameter. <i>Analyst</i> , 2015, 140, 6234-6238.	1.7	4
6383	Symmetrically substituted phenothiazine as prospective candidate for UV responsive dye sensitized solar cells. <i>Thin Solid Films</i> , 2015, 591, 8-12.	0.8	3
6384	Enhancing the efficiency of dye-sensitized solar cells by adding diatom frustules into TiO <sub>2</sub> working electrodes. <i>Applied Surface Science</i> , 2015, 347, 64-72.	3.1	16
6385	Effect of seed particles on crystallization and crystallite size of anatase TiO <sub>2</sub> nanocrystals by solvothermal treatment. <i>Advanced Powder Technology</i> , 2015, 26, 1225-1229.	2.0	11
6386	Construction of high-efficient photoelectrocatalytic system by coupling with TiO <sub>2</sub> nano-tubes photoanode and active carbon/polytetrafluoroethylene cathode and its enhanced photoelectrocatalytic degradation of 2,4-dichlorophene and mechanism. <i>Chemical Engineering Journal</i> , 2015, 279, 264-272.	6.6	22
6387	Cooperation of multifunction composite structures and fluorescein for photovoltaic performance-enhanced ZnO-based dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 297, 16-22.	4.0	20
6388	Enhanced photoelectrochemical water oxidation on a BiVO <sub>4</sub> photoanode modified with multi-functional layered double hydroxide nanowalls. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17977-17982.	5.2	201
6389	Hierarchically assembled nanostructures and their photovoltaic properties. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 885-889.	1.9	10
6390	Biparametric optical sensing of oxygen by titanium dioxide. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 515-520.	4.0	10
6391	Uncovering the Veil of the Degradation in Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> upon Humidity Exposure: A First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3289-3295.	2.1	171

#	ARTICLE	IF	CITATIONS
6392	Organic dyes containing fluoreneamine donor and carbazole linker for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 123, 154-165.	2.0	31
6393	Mechanical properties of epoxy nanocomposites using titanium dioxide as reinforcement – A review. <i>Construction and Building Materials</i> , 2015, 95, 506-524.	3.2	125
6394	Theoretical study on a high-efficient porphyrin-sensitizer in a local electric field: How does the local electric field affects the performance of dye-sensitized solar cells?. <i>Organic Electronics</i> , 2015, 26, 164-175.	1.4	17
6395	Enhanced Dye-Sensitized Solar Cells with Catalytic Carbon Aerogel Counter Electrodes. <i>Electrochimica Acta</i> , 2015, 174, 871-874.	2.6	15
6396	Synthesis and photovoltaic properties of organic dyes containing N-fluorene-2-yl dithieno[3,2-b:2',3'-d]pyrrole and different donors. <i>Organic Electronics</i> , 2015, 26, 109-116.	1.4	22
6397	Revealing the Role of TiO <sub>2</sub> Surface Treatment of Hematite Nanorods Photoanodes for Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16960-16966.	4.0	81
6398	Critical roles of co-catalysts for molecular hydrogen formation in photocatalysis. <i>Journal of Catalysis</i> , 2015, 330, 120-128.	3.1	59
6399	Multi-unit hydroelectric generator based on contact electrification and its service behavior. <i>Nano Energy</i> , 2015, 16, 329-338.	8.2	39
6400	Solution-Processed CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles on 3D Carbon Fiber Papers for Durable Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17851-17856.	4.0	126
6401	Reactivity and Mechanism Studies of Hydrogen Evolution Catalyzed by Copper Corroles. <i>ACS Catalysis</i> , 2015, 5, 5145-5153.	5.5	164
6402	Electrocatalytic properties of iron chalcogenides as low-cost counter electrode materials for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 72553-72561.	1.7	20
6403	A stable inverse opal structure of cadmium chalcogenide for efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18521-18527.	5.2	31
6404	In-situ fabricated transparent conducting nanofiber-shape polyaniline/coral-like TiO <sub>2</sub> thin film: Application in bifacial dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 284-295.	3.0	25
6405	Modulation of sulfur partial pressure in sulfurization to significantly improve the photoelectrochemical performance over the Cu <sub>2</sub> ZnSnS <sub>4</sub> photocathode. <i>Chemical Communications</i> , 2015, 51, 14057-14059.	2.2	21
6406	Charge transfer and storage in nanostructures. <i>Materials Science and Engineering Reports</i> , 2015, 96, 1-69.	14.8	74
6407	High power Co <sub>3</sub> O <sub>4</sub> /ZnO n type piezoelectric transducer. <i>Thin Solid Films</i> , 2015, 584, 112-115.	0.8	16
6408	The potential versus current state of water splitting with hematite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22485-22503.	1.3	133
6409	Design of Semiconducting Tetrahedral $MnO_4$ Alloys and Their Application to Solar Water Splitting. <i>Physical Review X</i> , 2015, 5, .	2.8	34

#	ARTICLE	IF	CITATIONS
6410	Synthesis of one-dimensional $\text{Fe}_2\text{O}_3/\text{Bi}_2\text{MoO}_6$ heterostructures by electrospinning process with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2015, 646, 417-424.	2.8	41
6411	Modelling accelerated degradation test and shelf-life prediction of dye-sensitized solar cells with different types of solvents. <i>Solar Energy</i> , 2015, 118, 600-610.	2.9	9
6412	High Substitution Rate in $\text{TiO}_2$ Anatase Nanoparticles with Cationic Vacancies for Fast Lithium Storage. <i>Chemistry of Materials</i> , 2015, 27, 5014-5019.	3.2	77
6413	Hybrid photocathodes for solar fuel production: coupling molecular fuel-production catalysts with solid-state light harvesting and conversion technologies. <i>Interface Focus</i> , 2015, 5, 20140085.	1.5	17
6414	Novel organic dyes with anchoring group of barbituric/thiobarbituric acid and their application in dye-sensitized solar cells. <i>Synthetic Metals</i> , 2015, 209, 1-10.	2.1	36
6415	Black Hydroxylated Titanium Dioxide Prepared via Ultrasonication with Enhanced Photocatalytic Activity. <i>Scientific Reports</i> , 2015, 5, 11712.	1.6	133
6416	Carbon nitride- $\text{TiO}_2$ hybrid modified with hydrogenase for visible light driven hydrogen production. <i>Chemical Science</i> , 2015, 6, 5690-5694.	3.7	99
6417	Solar Water Splitting Using Semiconductor Photocatalyst Powders. <i>Topics in Current Chemistry</i> , 2015, 371, 73-103.	4.0	52
6418	Visible Light Driven Nanosecond Bromide Oxidation by a Ru Complex with Subsequent $\text{Br-Br}$ Bond Formation. <i>Journal of the American Chemical Society</i> , 2015, 137, 8321-8323.	6.6	30
6420	Substrate-immobilized electrospun $\text{TiO}_2$ nanofibers for photocatalytic degradation of pharmaceuticals: The effects of pH and dissolved organic matter characteristics. <i>Water Research</i> , 2015, 86, 25-34.	5.3	66
6421	Organic Dye-Sensitized Tandem Photoelectrochemical Cell for Light Driven Total Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 9153-9159.	6.6	327
6422	Ultrathin insulating under-layer with a hematite thin film for enhanced photoelectrochemical (PEC) water splitting activity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15723-15728.	5.2	35
6423	Metal oxide semiconducting interfacial layers for photovoltaic and photocatalytic applications. <i>Materials for Renewable and Sustainable Energy</i> , 2015, 4, 1.	1.5	82
6424	Hierarchical $\text{TiO}_2$ submicron-sized spheres for enhanced power conversion efficiency in dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2015, 70, 928-934.	2.7	12
6425	Beneficial Role of Copper in the Enhancement of Durability of Ordered Intermetallic PtFeCu Catalyst for Electrocatalytic Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16311-16321.	4.0	66
6426	Synthesis and Characterization of New D- $\pi$ -A Type Fluorene Ligands and Their Ru(II) Complexes. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2015, 45, 1733-1738.	0.6	2
6427	Improved photovoltaic performance and stability of quantum dot sensitized solar cells using $\text{Mn-ZnSe}$ shell structure with enhanced light absorption and recombination control. <i>Nanoscale</i> , 2015, 7, 12552-12563.	2.8	80
6428	Rapid removal and decomposition of gaseous acetaldehyde by the thermo- and photo-catalysis of gold nanoparticle-loaded anatase titanium(IV) oxide. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 161-165.	5.0	11

#	ARTICLE	IF	CITATIONS
6429	Photoelectrochemical manifestation of intrinsic photoelectron transport properties of vertically aligned {001} faceted single crystal TiO <sub>2</sub> nanosheet films. RSC Advances, 2015, 5, 55438-55444.	1.7	15
6430	Aqueous Lithium-Iodine Solar Flow Battery for the Simultaneous Conversion and Storage of Solar Energy. Journal of the American Chemical Society, 2015, 137, 8332-8335.	6.6	149
6431	Lithium-coordinating ionic conductor for solid-state dye-sensitized solar cells. RSC Advances, 2015, 5, 56967-56973.	1.7	6
6432	Highly crystalline, small sized, monodisperse NiS nanocrystal ink as an efficient counter electrode for dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 15905-15912.	5.2	69
6433	First principles study of ruthenium(II) sensitizer adsorption on anatase TiO <sub>2</sub> (001) surface. RSC Advances, 2015, 5, 60230-60236.	1.7	7
6434	Thermo-stable carbon nanotube-TiO <sub>2</sub> nanocomposite as electron highways in dye-sensitized solar cell produced by bio-nano-process. Nanotechnology, 2015, 26, 285601.	1.3	11
6435	Stable dye-sensitized solar cells based on a gel electrolyte with ethyl cellulose as the gelator. Applied Physics A: Materials Science and Processing, 2015, 120, 869-874.	1.1	6
6436	A tetrathiafulvalene-grafted titanium-oxo-cluster material: self-catalyzed crystal exfoliation and photocurrent response properties. Journal of Materials Chemistry C, 2015, 3, 409-415.	2.7	33
6437	Well-connected TiO <sub>2</sub> nanocrystals via solid-state reaction for dye-sensitized solar cells. Electrochimica Acta, 2015, 176, 480-487.	2.6	7
6438	Construction of Graphitic C <sub>3</sub> N <sub>4</sub> -Based Intramolecular Donor-Acceptor Conjugated Copolymers for Photocatalytic Hydrogen Evolution. ACS Catalysis, 2015, 5, 5008-5015.	5.5	293
6439	Photocatalytic activity of WO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> nanocomposite photoanode. International Journal of Hydrogen Energy, 2015, 40, 8642-8649.	3.8	22
6440	NiS nanoparticles anchored on reduced graphene oxide to enhance the performance of dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2015, 26, 8176-8181.	1.1	22
6441	Three-armed imidazolium phenoxy ionic liquid as a novel crystal growth inhibitor for solid-state dye-sensitized solar cells. Materials Letters, 2015, 160, 135-138.	1.3	2
6442	Physical Modeling of Photoelectrochemical Hydrogen Production Devices. Journal of Physical Chemistry C, 2015, 119, 21747-21766.	1.5	21
6443	Determination of the dynamic resistance of the quantum dots solar cells by one V curve and electrochemical impedance spectra. Solar Energy Materials and Solar Cells, 2015, 143, 269-274.	3.0	26
6444	An Optically Transparent Iron Nickel Oxide Catalyst for Solar Water Splitting. Journal of the American Chemical Society, 2015, 137, 9927-9936.	6.6	247
6445	Noble-metal-free NiSn <sub>x</sub> O <sub>y</sub> decorated graphene cocatalyst for highly efficient reduction of water to hydrogen. International Journal of Hydrogen Energy, 2015, 40, 9634-9641.	3.8	24
6446	Effect of polymer electrolyte on the performance of natural dye sensitized solar cells. Superlattices and Microstructures, 2015, 86, 62-67.	1.4	20

#	ARTICLE	IF	CITATIONS
6447	High Catalytic Activity of Amorphous Ir-Pi for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2015, 7, 15765-15776.	4.0	55
6448	In Situ Electrochemical Oxidation Tuning of Transition Metal Disulfides to Oxides for Enhanced Water Oxidation. ACS Central Science, 2015, 1, 244-251.	5.3	373
6449	Wavelength-switchable photocurrent in a hybrid TiO <sub>2</sub> /Ag nanocluster photoelectrode. Chemical Communications, 2015, 51, 12072-12075.	2.2	24
6450	A hybrid density functional theory study of the anion distribution and applied electronic properties of the LaTiO <sub>2</sub> N semiconductor photocatalyst. Physical Chemistry Chemical Physics, 2015, 17, 19631-19636.	1.3	11
6451	Low-cost solution processed nano millet like structure CoS <sub>2</sub> film superior to pt as counter electrode for quantum dot sensitized solar cells. Electronic Materials Letters, 2015, 11, 485-493.	1.0	11
6452	Completely <001> oriented anatase TiO <sub>2</sub> nanoarrays: topotactic growth and orientation-related efficient photocatalysis. Nanoscale, 2015, 7, 13888-13897.	2.8	22
6453	Porous Zn-doped TiO <sub>2</sub> nanowall photoanode: Effect of Zn <sup>2+</sup> concentration on the dye-sensitized solar cell performance. Applied Surface Science, 2015, 353, 835-842.	3.1	42
6454	Enhanced photo-electrochemical water oxidation on MnO <sub>x</sub> in buffered organic/inorganic electrolytes. Journal of Materials Chemistry A, 2015, 3, 16642-16652.	5.2	16
6455	Modulating the interaction between gold and TiO <sub>2</sub> nanowires for enhanced solar driven photoelectrocatalytic hydrogen generation. Physical Chemistry Chemical Physics, 2015, 17, 19371-19378.	1.3	16
6456	Nonepitaxial Thin-Film InP for Scalable and Efficient Photocathodes. Journal of Physical Chemistry Letters, 2015, 6, 2177-2182.	2.1	33
6457	The electronic structure engineering of organic dye sensitizers for solar cells: The case of JK derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 855-866.	2.0	6
6458	Simplified TiO <sub>2</sub> force fields for studies of its interaction with biomolecules. Journal of Chemical Physics, 2015, 142, 234102.	1.2	41
6459	Electronic Absorption. , 2015, , 123-223.		0
6460	Organically modified titania nanoparticles for sustained drug release applications. Journal of Colloid and Interface Science, 2015, 456, 59-65.	5.0	10
6461	Adsorption Behavior of the 1,3-Dimethylimidazolium Thiocyanate and Tetracyanoborate Ionic Liquids at Anatase (101) Surface. Journal of Physical Chemistry C, 2015, 119, 15137-15149.	1.5	21
6462	Investigation of photoinduced electron transfer on TiO <sub>2</sub> nanowire arrays/porphyrin composite via scanning electrochemical microscopy. RSC Advances, 2015, 5, 56697-56703.	1.7	4
6463	A catalyst-free amorphous silicon-based tandem thin film photocathode with high photovoltage for solar water splitting. Journal of Materials Chemistry A, 2015, 3, 15583-15590.	5.2	14
6464	The rise of hematite: origin and strategies to reduce the high onset potential for the oxygen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 16896-16912.	5.2	220

#	ARTICLE	IF	CITATIONS
6465	Recent progress in photocathodes for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15824-15837.	5.2	160
6466	Carbon quantum dots coated BiVO <sub>4</sub> inverse opals for enhanced photoelectrochemical hydrogen generation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	64
6467	Impact of Oxygen Vacancy on Band Structure Engineering of n-p Codoped Anatase TiO <sub>2</sub> . <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 155-160.	0.6	6
6468	The "Best Catalyst" for Water Oxidation Depends on the Oxidation Method Employed: A Case Study of Manganese Oxides. <i>Journal of the American Chemical Society</i> , 2015, 137, 8384-8387.	6.6	143
6469	Recent progress in efficient hybrid lead halide perovskite solar cells. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 036004.	2.8	87
6470	Localized Excitation of Ti <sup>3+</sup> Ions in the Photoabsorption and Photocatalytic Activity of Reduced Rutile TiO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2015, 137, 9146-9152.	6.6	168
6471	The cis-isomer performs better than the trans-isomer in porphyrin-sensitized solar cells: interfacial electron transport and charge recombination investigations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20134-20143.	1.3	15
6472	Surface-mediated selective photocatalytic aerobic oxidation reactions on TiO <sub>2</sub> nanofibres. <i>RSC Advances</i> , 2015, 5, 56820-56831.	1.7	11
6473	Correlating flat band and onset potentials for solar water splitting on model hematite photoanodes. <i>RSC Advances</i> , 2015, 5, 61021-61030.	1.7	66
6474	Tunable synthesis of single-crystalline-like TiO <sub>2</sub> mesocrystals and their application as effective scattering layer in dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 125-131.	5.0	16
6475	Facet-dependent NiS <sub>2</sub> polyhedrons on counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 12863-12866.	2.2	90
6476	Three-phase junction for modulating electron-hole migration in anatase-rutile photocatalysts. <i>Chemical Science</i> , 2015, 6, 3483-3494.	3.7	86
6477	Synthesis of 1D upconversion CeO <sub>2</sub> :Er, Yb nanofibers via electrospinning and their performance in dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 43328-43333.	1.7	28
6478	Perovskite solar cells based on small molecule hole transporting materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18329-18344.	5.2	88
6479	Multiwalled carbon nanotube coated polyester fabric as textile based flexible counter electrode for dye sensitized solar cell. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12957-12969.	1.3	66
6480	Highly transparent triboelectric nanogenerator for harvesting water-related energy reinforced by antireflection coating. <i>Scientific Reports</i> , 2015, 5, 9080.	1.6	165
6481	Understanding the Growth Mechanisms of Ag Nanoparticles Controlled by Plasmon-Induced Charge Transfers in Ag-TiO <sub>2</sub> Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9496-9505.	1.5	33
6482	Structural and optical properties of Purpurin for dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 997-1008.	2.0	20

#	ARTICLE	IF	CITATIONS
6483	Basics of Photocatalysis. , 2015, , 1-23.		9
6484	Graphene-incorporated quasi-solid-state dye-sensitized solar cells. RSC Advances, 2015, 5, 43402-43407.	1.7	10
6485	In situ formation of ZnO scattering sites within a TiO <sub>2</sub> nanoparticles film for improved dye-sensitized solar cells performance. Electrochimica Acta, 2015, 174, 438-445.	2.6	4
6486	Morphology of Nanotube Governs the Photoelectric Performance. Materials Science Forum, 0, 814, 19-24.	0.3	0
6487	CdSe quantum dot-functionalized TiO <sub>2</sub> nanohybrids as a visible light induced photoelectrochemical platform for the detection of proprotein convertase subtilisin/kexin type 6. Biosensors and Bioelectronics, 2015, 71, 88-97.	5.3	23
6488	The fabrication of innovative single crystal N,F-codoped titanium dioxide nanowires with enhanced photocatalytic activity for degradation of atrazine. Applied Catalysis B: Environmental, 2015, 168-169, 550-558.	10.8	64
6489	Carbon nanotubes embedding organic ionic plastic crystals electrolytes for high performance solid-state dye-sensitized solar cells. Carbon, 2015, 92, 262-270.	5.4	19
6490	New single-source precursor for bismuth sulfide and its use as low-cost counter electrode material for dye-sensitized solar cells. Inorganica Chimica Acta, 2015, 430, 168-175.	1.2	31
6491	The growth of hematite by electrochemical deposition for PEC applications. Journal of Alloys and Compounds, 2015, 638, 387-392.	2.8	14
6492	A gold surface plasmon enhanced mesoporous titanium dioxide photoelectrode for the plastic-based flexible dye-sensitized solar cells. Journal of Power Sources, 2015, 288, 221-228.	4.0	61
6493	Catalytic and photoelectrochemical performances of Cu-Zn-Sn-Se thin films prepared using selenization of electrodeposited Cu-Zn-Sn metal precursors. Journal of Power Sources, 2015, 286, 47-57.	4.0	11
6494	Enhanced dye loading-light harvesting TiO <sub>2</sub> photoanode with screen printed nanorod-nanoparticles assembly for highly efficient solar cell. Electrochimica Acta, 2015, 169, 395-401.	2.6	33
6495	Composite multi-functional over layer: A novel design to improve the photovoltaic performance of DSSC. Solar Energy Materials and Solar Cells, 2015, 140, 141-149.	3.0	38
6496	Exploring the influence of electron donating/withdrawing groups on hexamolybdate-based derivatives for efficient p-type dye-sensitized solar cells (DSSCs). RSC Advances, 2015, 5, 39821-39827.	1.7	30
6497	TiO <sub>2</sub> nanofibers resembling "yellow bristle grass"™ in morphology by a soft chemical transformation. Dalton Transactions, 2015, 44, 9637-9645.	1.6	14
6498	Mechanism of titania nanoglass formation during anodization. Chemical Physics Letters, 2015, 626, 15-19.	1.2	15
6499	Steering charge kinetics in photocatalysis: intersection of materials syntheses, characterization techniques and theoretical simulations. Chemical Society Reviews, 2015, 44, 2893-2939.	18.7	955
6500	Improved Photocurrents for Water Oxidation by Using Metal-Organic Framework Derived Hybrid Porous Co <sub>3</sub> O <sub>4</sub> @Carbon/BiVO <sub>4</sub> as a Photoanode. ChemPlusChem, 2015, 80, 1465-1471.	1.3	15



#	ARTICLE	IF	CITATIONS
6501	Revealing the role of organic cations in hybrid halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . Nature Communications, 2015, 6, 7026.	5.8	564
6502	Stacked graphene@TiO <sub>2</sub> photoanode via electrospray deposition for highly efficient dye-sensitized solar cells. Organic Electronics, 2015, 23, 158-163.	1.4	36
6503	Directly grown anatase TiO <sub>2</sub> films via liquid phase deposition as the photoanodes for dye-sensitized solar cells. Electrochimica Acta, 2015, 179, 197-205.	2.6	15
6504	Mesoporous titania with anatase framework synthesized using polyphenolic structure-directing agent: Synthesis domain and catalytic metal loading. Microporous and Mesoporous Materials, 2015, 212, 117-124.	2.2	9
6505	Bifunctional Zinc Oxide Nanoburger Aggregates as the Dye-Adsorption and Light-Scattering Layer for Dye-Sensitized Solar Cells. Electrochimica Acta, 2015, 169, 456-461.	2.6	16
6506	Novel Semiconductor-Liquid Heterojunction Solar Cells Based on Cuprous Oxide and Iodine Electrolyte. Electrochimica Acta, 2015, 167, 112-118.	2.6	4
6507	Performance optimization in dye-sensitized solar cells with $\text{Er}^{3+}/\text{Yb}^{3+}$ and graphene multi-functional layer hybrid composite photoanodes. Journal of Power Sources, 2015, 287, 231-236.	4.0	14
6508	Layered co-sensitization of gardenia and monascus for panchromatic light harvesting in dye-sensitized solar cells. Photonics and Nanostructures - Fundamentals and Applications, 2015, 14, 71-76.	1.0	6
6509	Photocatalytic activities of ultra-small $\text{FeOOH}$ and TiO <sub>2</sub> heterojunction structure under simulated solar irradiation. Materials Research Bulletin, 2015, 68, 133-141.	2.7	39
6510	Nanoporous gyroid TiO <sub>2</sub> and SnO <sub>2</sub> by melt infiltration of block copolymer templates. Microporous and Mesoporous Materials, 2015, 210, 161-168.	2.2	6
6511	Modified conducting polymer films having high catalytic activity for use as counter electrodes in rigid and flexible dye-sensitized solar cells. Journal of Power Sources, 2015, 284, 489-496.	4.0	56
6512	investigations on the interaction between organic dye with different donors and $\text{X}^{\text{m}}$		

#	ARTICLE	IF	CITATIONS
6519	Crystallinity Engineering of Hematite Nanorods for High-Efficiency Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2015, 2, 1500005.	5.6	35
6520	Theoretical Study of WS-2-Based Organic Sensitizers for Unusual Vis/NIR Absorption and Highly Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9782-9790.	1.5	121
6521	Schmitt Trigger Using a Self-Healing Ionic Liquid Gated Transistor. <i>Advanced Materials</i> , 2015, 27, 3331-3335.	11.1	48
6522	Green synthesis of photoactive nanocrystalline anatase TiO <sub>2</sub> in recyclable and recoverable acidic ionic liquid [Bmim] HSO <sub>4</sub> . <i>Journal of Materials Science</i> , 2015, 50, 2443-2450.	1.7	20
6523	Transparent bifacial dye-sensitized solar cells based on an electrochemically polymerized organic counter electrode and an iodine-free polymer gel electrolyte. <i>Journal of Materials Science</i> , 2015, 50, 3803-3811.	1.7	11
6524	Improved photovoltaic performance of dye-sensitized solar cells by carbon-ion implantation of tri-layer titania film electrodes. <i>Rare Metals</i> , 2015, 34, 34-39.	3.6	8
6525	White-light induced grafting of 3-MPA on the Si(111)-H surface for catalyzing Au nanoparticles <i>in situ</i> growth. <i>Nanoscale</i> , 2015, 7, 9563-9569.	2.8	3
6526	Solar light driven pure water splitting of B-doped BiVO <sub>4</sub> synthesized via a sol-gel method. <i>Journal of Alloys and Compounds</i> , 2015, 636, 131-137.	2.8	60
6527	Comparison of photovoltaic performance of TiO <sub>2</sub> nanoparticles based thin films via different routes. <i>Functional Materials Letters</i> , 2015, 08, 1550023.	0.7	4
6528	Theoretical studies on the absorption spectra of cis-[Ru(4,4'-COO-2,2'-bpy) <sub>2</sub> (X) <sub>2</sub> ] <sup>4+</sup> , (X = NCS, Cl) and panchromatic trans-terpyridyl Ru complexes including strong spin-orbit coupling. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12317-12327.	1.3	7
6529	Synthesis and evaluation of simple molecule as a co-adsorbent dye for highly efficient co-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 120, 85-92.	2.0	16
6530	A potential gradient along the layer-by-layer architecture for electron transfer rectification. <i>Dalton Transactions</i> , 2015, 44, 15116-15120.	1.6	2
6531	Catalytic Hairpin Assembly-Programmed Porphyrin-DNA Complex as Photoelectrochemical Initiator for DNA Biosensing. <i>Analytical Chemistry</i> , 2015, 87, 5430-5436.	3.2	121
6532	Absorption and emission of finite layer of chiral photonic crystal. <i>Journal of Contemporary Physics</i> , 2015, 50, 28-38.	0.1	3
6533	Recent Progress on Hole-Transporting Materials for Emerging Organometal Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500213.	10.2	418
6534	Evaluation of various diameters of titanium oxide nanofibers for efficient dye sensitized solar cells synthesized by electrospinning technique: A systematic study and their application. <i>Electrochimica Acta</i> , 2015, 166, 356-366.	2.6	30
6535	Crystal plane-dependent electrocatalytic activity of Co <sub>3</sub> O <sub>4</sub> toward oxygen evolution reaction. <i>Catalysis Communications</i> , 2015, 67, 78-82.	1.6	93
6536	Facile Green Synthesis of Silver Nanoparticles Using Limonia Acidissima Leaf Extract and its Antibacterial Activity. <i>BioNanoScience</i> , 2015, 5, 97-103.	1.5	19

#	ARTICLE	IF	CITATIONS
6537	Fabrication of chain-like TiO <sub>2</sub> hollow microspheres with enhanced photocatalytic activity. <i>Ceramics International</i> , 2015, 41, 7937-7943.	2.3	9
6538	Ultrathin MoS <sub>2</sub> -coated carbon nanospheres as highly efficient electrocatalysts for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6552-6558.	3.8	104
6539	Visible-light-driven photocatalyst of La <sup>3+</sup> -N-codoped TiO <sub>2</sub> nano-photocatalyst: Fabrication and its enhanced photocatalytic performance and mechanism. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 16-21.	2.9	31
6540	Facile synthesis of Ag@TiO <sub>2</sub> (B) hierarchical core-shell nanowires: facile synthesis, growth mechanism and photocatalytic and antibacterial applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5753-5760.	1.1	6
6541	Cadmium selenide quantum dots solar cells featuring nickel sulfide/polyaniline as efficient counter electrode provide 4.15% efficiency. <i>RSC Advances</i> , 2015, 5, 42101-42108.	1.7	12
6542	Ruthenium(II) complexes containing benzimidazolic tripodal ligands. <i>Inorganica Chimica Acta</i> , 2015, 431, 258-265.	1.2	8
6543	A strategy to enhance overall efficiency for dye-sensitized solar cells with a transparent electrode of nickel sulfide decorated with poly(3,4-ethylenedioxythiophene). <i>RSC Advances</i> , 2015, 5, 43639-43647.	1.7	17
6544	Fabrication of nanoscale heterostructures comprised of graphene-encapsulated gold nanoparticles and semiconducting quantum dots for photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12881-12893.	1.3	27
6545	Recent Advancement of Nanostructured Carbon for Energy Applications. <i>Chemical Reviews</i> , 2015, 115, 5159-5223.	23.0	703
6546	Novel one-dimensional ZnO nanorods synthesized through a two-step post-treatment for efficiency enhancement of dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2015, 644, 350-353.	2.8	19
6547	Efficiency enhancement in dye-sensitized solar cells with a novel PAN-based gel polymer electrolyte with ternary iodides. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2353-2359.	1.2	27
6548	Construction of hybrid films of silver nanoparticles and polypyridine ruthenium complexes on substrates. <i>Dalton Transactions</i> , 2015, 44, 15244-15249.	1.6	3
6549	A novel heterogeneous hybrid by incorporation of Nb <sub>2</sub> O <sub>5</sub> microspheres and reduced graphene oxide for photocatalytic H <sub>2</sub> evolution under visible light irradiation. <i>RSC Advances</i> , 2015, 5, 47117-47124.	1.7	31
6550	Functionalized Nanocarbons for Artificial Photosynthesis: From Fullerene to SWCNT, Carbon Nanohorn, and Graphene. , 2015, , 193-240.		2
6551	A highly efficient flexible dye-sensitized solar cell based on nickel sulfide/platinum/titanium counter electrode. <i>Nanoscale Research Letters</i> , 2015, 10, 1.	3.1	959
6552	Improved photoelectrical performance of graphene supported highly crystallized anatase TiO <sub>2</sub> . <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 595-600.	1.1	2
6553	Photonic band-edge-induced enhancement in absorption and emission. <i>Journal of Nanophotonics</i> , 2015, 9, 093086.	0.4	7
6554	Modeling and experiment of dye-sensitized solar cell with vertically aligned ZnO nanorods through chemical bath deposition. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
6555	Photoluminescence of a single quantum emitter in a strongly inhomogeneous chemical environment. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14994-15000.	1.3	11
6556	Carbon nanomaterials for photovoltaic process. <i>Nano Energy</i> , 2015, 15, 490-522.	8.2	47
6557	Towards a smart energy network: The roles of fuel/electrolysis cells and technological perspectives. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6866-6919.	3.8	141
6558	Photofuel cell comprising titanium oxide and bismuth oxychloride ( $\text{BiO}_{1-x}\text{Cl}_{1-y}$ ) photocatalysts that uses acidic water as a fuel. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8389-8404.	5.2	51
6559	Tantalum Nitride Nanorod Arrays: Introducing Ni <sup>2+</sup> /Fe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. <i>Chemistry of Materials</i> , 2015, 27, 2360-2366.	3.2	158
6560	Review on application of PEDOTs and PEDOT:PSS in energy conversion and storage devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4438-4462.	1.1	464
6561	Synthesis of Amorphous Platinum Nanofibers Directly on an ITO Substrate and Its Heterogeneous Catalytic Hydrogenation Characterization. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7776-7785.	4.0	23
6562	Recent theoretical progress in the development of photoanode materials for solar water splitting photoelectrochemical cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10632-10659.	5.2	146
6563	Hematite Films Decorated with Nanostructured Ferric Oxyhydroxide as Photoanodes for Efficient and Stable Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2015, 25, 2686-2692.	7.8	223
6564	Novel anti-fouling Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanowire membranes for humic acid removal from water. <i>Chemical Engineering Journal</i> , 2015, 271, 180-187.	6.6	45
6565	One-step synthesis of a new photoelectron-accepting, n-dopable oligo(pyrazole). <i>Synthetic Metals</i> , 2015, 204, 32-38.	2.1	3
6566	Effect of TiO <sub>2</sub> particles on normal and resonance Raman spectra of coumarin 343: a theoretical investigation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10910-10918.	1.3	9
6567	Organic sensitizers possessing carbazole donor and indeno[1,2-b] thiophene spacer for efficient dye sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 119, 41-48.	2.0	20
6568	InN/InGaN quantum dot photoelectrode: Efficient hydrogen generation by water splitting at zero voltage. <i>Nano Energy</i> , 2015, 13, 291-297.	8.2	63
6569	Theoretical Study of Acene-Bridged Dyes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3299-3309.	1.1	48
6570	Reversible Electron Storage in an All-Vanadium Photoelectrochemical Storage Cell: Synergy between Vanadium Redox and Hybrid Photocatalyst. <i>ACS Catalysis</i> , 2015, 5, 2632-2639.	5.5	68
6571	Exploring the sensitization properties of thienyl-functionalized tripyrrole Ru(II) complexes on TiO <sub>2</sub> (101) surface: a theoretical study. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	7
6572	Enhanced power conversion efficiency of CdS quantum dot sensitized solar cells with ZnO nanowire arrays as the photoanodes. <i>Optics Communications</i> , 2015, 349, 198-202.	1.0	38

#	ARTICLE	IF	CITATIONS
6573	Hole Selective NiO Contact for Efficient Perovskite Solar Cells with Carbon Electrode. <i>Nano Letters</i> , 2015, 15, 2402-2408.	4.5	412
6574	ZnO hierarchial structure prepared via direct precipitation for dye-sensitized solar cells. <i>Research on Chemical Intermediates</i> , 2015, 41, 3573-3582.	1.3	2
6575	Effect of surfactant on the physical properties of ZnO nanorods and the performance of ZnO photoelectrochemical cell. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 599-609.	1.3	20
6576	Core-Shell Hematite Nanorods: A Simple Method To Improve the Charge Transfer in the Photoanode for Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6852-6859.	4.0	57
6577	A cascaded QSAR model for efficient prediction of overall power conversion efficiency of all-organic dye-sensitized solar cells. <i>Journal of Computational Chemistry</i> , 2015, 36, 1036-1046.	1.5	46
6578	Enhancing the Efficiency and Charge Transport Characteristics of Dye-Sensitized Solar Cells by Adding Graphene Nanosheets to TiO <sub>2</sub> Working Electrodes. <i>Electrochimica Acta</i> , 2015, 165, 356-364.	2.6	15
6579	High-performance dye-sensitized solar cells using edge-halogenated graphene nanoplatelets as counter electrodes. <i>Nano Energy</i> , 2015, 13, 336-345.	8.2	85
6580	Synthesis, characterization and binding interactions of amino acids coupled perylene diimides with colloidal doped and undoped TiO <sub>2</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 146, 13-23.	2.0	8
6581	A solution-processed, mercaptoacetic acid-engineered CdSe quantum dot photocathode for efficient hydrogen production under visible light irradiation. <i>Energy and Environmental Science</i> , 2015, 8, 1443-1449.	15.6	90
6582	Investigation of the photoelectrochemical properties for typical ZnO nanostructures grown by using chemical vapor transport. <i>Journal of the Korean Physical Society</i> , 2015, 66, 832-838.	0.3	3
6583	Surface plasmon-enhanced dye-sensitized solar cells based on double-layered composite films consisting of TiO <sub>2</sub> /Ag and TiO <sub>2</sub> /Au nanoparticles. <i>RSC Advances</i> , 2015, 5, 27464-27469.	1.7	27
6584	Down-conversion photoluminescence sensitizing plasmonic silver nanoparticles on ZnO nanorods to generate hydrogen by water splitting photochemistry. <i>Applied Physics Letters</i> , 2015, 106, 023114.	1.5	16
6585	Room temperature synthesis of graphene-platinum composite as counter electrode for efficient dye-sensitized solar cell. <i>RSC Advances</i> , 2015, 5, 32096-32102.	1.7	6
6586	Synthesis of cadmium sulfide quantum dot-decorated barium stannate nanowires for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12769-12776.	5.2	41
6587	Insights into How Fluorine-Adsorption and n-Type Doping Affect the Relative Stability of the (001) and (101) Surfaces of TiO <sub>2</sub> : Enhancing the Exposure of More Active but Thermodynamically Less Stable (001). <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1876-1882.	2.1	36
6588	Low temperature (150°C) fabrication of high-performance TiO <sub>2</sub> films for dye-sensitized solar cells using ultraviolet light and plasma treatments of TiO <sub>2</sub> paste containing organic binder. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	11
6589	Effect of morphology of ZnO nanowire arrays on photovoltaic and electron transport properties of DSSC. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 81, 012046.	0.3	4
6590	Synthesis and Characterization of (2E,2) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 67 Td (E)â€³,3â€³((9,9â€³diocylâ€³Hâ€³floureneâ€³) Organic Dye. <i>Journal of the Chinese Chemical Society</i> , 2015, 62, 393-397.	0.8	2

#	ARTICLE	IF	CITATIONS
6591	Dithiafulvalene functionalized diketopyrrolopyrrole based sensitizers for efficient hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13710-13718.	1.3	22
6592	Benzothiadiazole-based organic dyes with pyridine anchors for dye-sensitized solar cells: effect of donor on optical properties. <i>Tetrahedron</i> , 2015, 71, 4203-4212.	1.0	38
6593	Constructing Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> core-shell photoelectrodes for efficient photoelectrochemical water splitting. <i>Nanoscale</i> , 2015, 7, 10094-10100.	2.8	72
6594	Application of silver nanoparticles as an interfacial layer in cadmium sulfide quantum dot sensitized solar cells. <i>Journal of Nanophotonics</i> , 2015, 9, 093092.	0.4	14
6595	Plasmon-enhanced light harvesting: applications in enhanced photocatalysis, photodynamic therapy and photovoltaics. <i>RSC Advances</i> , 2015, 5, 29076-29097.	1.7	196
6597	Synthesis and dye sensitized solar cell applications of Bodipy derivatives with bis-dimethylfluorenyl amine donor groups. <i>New Journal of Chemistry</i> , 2015, 39, 4086-4092.	1.4	38
6598	Rate Law Analysis of Water Oxidation on a Hematite Surface. <i>Journal of the American Chemical Society</i> , 2015, 137, 6629-6637.	6.6	273
6599	Soft template mediated synthesis of Bi-In-Zn-S and its efficient visible-light-driven decomposition of methylene blue. <i>RSC Advances</i> , 2015, 5, 41941-41948.	1.7	9
6600	Thermal vapor condensation of uniform graphitic carbon nitride films with remarkable photocurrent density for photoelectrochemical applications. <i>Nano Energy</i> , 2015, 15, 353-361.	8.2	208
6601	The Photovoltaic Effect of CdS Quantum Dots Synthesized in Inverse Micelles and R-Phycocerythrin Tunnel Cavities. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 1141-1150.	1.4	5
6602	First-Principles Modeling of Core/Shell Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12739-12748.	1.5	20
6603	Theoretical studies on the spectroscopic properties of porphyrin derivatives for dye-sensitized solar cell application. <i>RSC Advances</i> , 2015, 5, 33653-33665.	1.7	30
6604	Review on polymer electrolyte in dye-sensitized solar cells (DSSCs). <i>Solar Energy</i> , 2015, 115, 452-470.	2.9	248
6605	Photoinduced Energy Shift in Quantum-Dot-Sensitized TiO <sub>2</sub> : A First-Principles Analysis. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1423-1429.	2.1	10
6606	Tailoring Optical and Plasmon Resonances in Core-shell and Core-multishell Nanowires for Visible Range Negative Refraction and Plasmonic Light Harvesting: A Review. <i>Journal of Materials Science and Technology</i> , 2015, 31, 533-541.	5.6	15
6607	Uniform Decoration of CdS Nanoparticles on TiO <sub>2</sub> Inverse Opals for Visible Light Photoelectrochemical Cell. <i>Electrochimica Acta</i> , 2015, 166, 350-355.	2.6	7
6608	Enhanced photoelectrochemical conversion performance of ZnO quantum dots sensitized $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> thin films. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5583-5592.	3.8	27
6609	Investigation and design of high efficiency carbazole-based sensitizers for solar cells: Effect of the nature and length of $\pi$ -linker. <i>Organic Electronics</i> , 2015, 22, 108-116.	1.4	13

#	ARTICLE	IF	CITATIONS
6610	Rapid removal and subsequent low-temperature mineralization of gaseous acetaldehyde by the dual thermocatalysis of gold nanoparticle-loaded titanium(IV) oxide. <i>Journal of Catalysis</i> , 2015, 326, 9-14.	3.1	24
6611	Synthesis and Characterization of Hematite Nanotube Arrays for Photocatalysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 4285-4292.	1.8	30
6612	Photoelectrochemical Hydrogen Generation Using C-dot/ZnO Hierarchical Nanostructure as an Efficient Photoanode. <i>Journal of the Electrochemical Society</i> , 2015, 162, H366-H370.	1.3	13
6614	Biosensing strategy based on photocurrent quenching of quantum dots via energy resonance absorption. <i>Science China Chemistry</i> , 2015, 58, 879-884.	4.2	6
6615	Building novel Ag/CeO <sub>2</sub> heterostructure for enhancing photocatalytic activity. <i>Materials Research Bulletin</i> , 2015, 65, 266-272.	2.7	20
6616	Surface Modification of CoO <sub>x</sub> Loaded BiVO <sub>4</sub> Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , 2015, 137, 5053-5060.	6.6	542
6617	Computational Investigation of Acene-Modified Zinc-Porphyrin Based Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8417-8430.	1.5	22
6618	Depth-reduction induced low onset potential of hematite photoanodes for solar water oxidation. <i>RSC Advances</i> , 2015, 5, 31086-31090.	1.7	7
6619	N/Si co-doped oriented single crystalline rutile TiO <sub>2</sub> nanorods for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10020-10025.	5.2	55
6620	High Efficiency Solar-to-Hydrogen Conversion on a Monolithically Integrated InGaN/GaN/Si Adaptive Tunnel Junction Photocathode. <i>Nano Letters</i> , 2015, 15, 2721-2726.	4.5	98
6621	Carbon Nanotubes for Dye-Sensitized Solar Cells. <i>Small</i> , 2015, 11, 2963-2989.	5.2	122
6622	Impact of a conductive oxide core in tungsten sulfide-based nanostructures on the hydrogen evolution reaction. <i>Chemical Communications</i> , 2015, 51, 8334-8337.	2.2	50
6623	One-dimension-based spatially ordered architectures for solar energy conversion. <i>Chemical Society Reviews</i> , 2015, 44, 5053-5075.	18.7	367
6624	Collective excitation of plasmonic hot-spots for enhanced hot charge carrier transfer in metal/semiconductor contacts. <i>Nanoscale</i> , 2015, 7, 8294-8298.	2.8	20
6625	Lead selenide-Titanium dioxide heteronanojunction formation by photocatalytic current doubling-induced two-step photodeposition technique. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 248-253.	5.0	7
6626	II-VI semiconductor nanowires. , 2015, , 3-28.		3
6627	Aqueous dye-sensitized solar cells. <i>Chemical Society Reviews</i> , 2015, 44, 3431-3473.	18.7	389
6628	In vitro antioxidant and hepatoprotective potential of Azolla microphylla phytochemically synthesized gold nanoparticles on acetaminophen induced hepatocyte damage in <i>Cyprinus carpio</i> L.. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 630-643.	0.7	31

#	ARTICLE	IF	CITATIONS
6629	Enhanced photocatalytic activity of {101}-oriented bipyramidal TiO <sub>2</sub> agglomerates through interparticle charge transfer. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 76-82.	10.8	28
6631	Enhanced photovoltaic performance of dye-sensitized solar cells based on NaYF <sub>4</sub> :Yb <sup>3+</sup> , Er <sup>3+</sup> -incorporated nanocrystalline TiO <sub>2</sub> electrodes. <i>Journal of Colloid and Interface Science</i> , 2015, 451, 15-20.	5.0	13
6632	Ultrasonic fabrication of TiO <sub>2</sub> /chitosan hybrid nanoporous microspheres with antimicrobial properties. <i>RSC Advances</i> , 2015, 5, 20265-20269.	1.7	16
6633	Methods for comparing the performance of energy-conversion systems for use in solar fuels and solar electricity generation. <i>Energy and Environmental Science</i> , 2015, 8, 2886-2901.	15.6	196
6634	A New Graphdiyne Nanosheet/Pt Nanoparticle-Based Counter Electrode Material with Enhanced Catalytic Activity for Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500296.	10.2	180
6635	Design, synthesis of uniform Au nanoparticles modified Fe <sub>2</sub> O <sub>3</sub> @TiO <sub>2</sub> coaxial nanotubes and their enhanced thermal stability and photocatalytic activity. <i>New Journal of Chemistry</i> , 2015, 39, 4611-4623.	1.4	19
6636	Bilayer TiO <sub>2</sub> photoanode consisting of a nanowire-nanoparticle bottom layer and a spherical voids scattering layer for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2015, 39, 4845-4851.	1.4	23
6637	Performance Enhancement of Dye-Sensitized Solar Cells Based on TiO <sub>2</sub> Thick Mesoporous Photoanodes by Morphological Manipulation. <i>Langmuir</i> , 2015, 31, 11659-11670.	1.6	20
6638	Thiolate/Disulfide Based Electrolytes for p-type and Tandem Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 182, 458-463.	2.6	33
6639	Plasma-Induced Oxygen Vacancies in Ultrathin Hematite Nanoflakes Promoting Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22355-22363.	4.0	162
6640	Improvement of electrical and photovoltaic properties of methyl red dye based photoelectrochemical cells in presence of single walled carbon nanotubes. <i>Frontiers of Optoelectronics</i> , 2015, 8, 289-297.	1.9	7
6641	Efficient visible light-induced photoelectrocatalytic hydrogen production using CdS sensitized TiO <sub>2</sub> nanorods on TiO <sub>2</sub> nanotube arrays. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22218-22226.	5.2	72
6642	Copper(I) thiocyanate (CuSCN) as a hole-transport material for large-area optoelectronics. <i>Semiconductor Science and Technology</i> , 2015, 30, 104002.	1.0	83
6644	Photoelectrochemical Characteristics of Solar Cell Based on FTO/ZnO/CdS (Photoanode) and FTO/ZnO/Cu x S (Counter Electrode) Heterostructures Formed by Photocatalytic Methods. <i>Theoretical and Experimental Chemistry</i> , 2015, 51, 203-209.	0.2	9
6645	Excellent optical and interfacial performance of a PEDOT-b-PEG block copolymer counter electrode for polymer electrolyte-based solid-state dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 16782-16785.	2.2	14
6646	Near surface properties of mixtures of propylammonium nitrate with n-alkanols 2. <i>Nanotribology and fluid dynamics. Physical Chemistry Chemical Physics</i> , 2015, 17, 26629-26637.	1.3	12
6647	Photocatalytic splitting of water on s-triazine based graphitic carbon nitride: an ab initio investigation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23011-23016.	5.2	53
6648	Thin-Film Materials for the Protection of Semiconducting Photoelectrodes in Solar-Fuel Generators. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24201-24228.	1.5	245



#	ARTICLE	IF	CITATIONS
6649	Coupling TiO <sub>2</sub> nanotubes photoelectrode with Pd nano-particles and reduced graphene oxide for enhanced photocatalytic decomposition of diclofenac and mechanism insights. Separation and Purification Technology, 2015, 154, 51-59.	3.9	31
6650	Tunable photocatalytic selectivity and stability of Ba-doped Ag <sub>3</sub> PO <sub>4</sub> hollow nanosheets. Chinese Journal of Catalysis, 2015, 36, 1587-1595.	6.9	18
6651	Probing electrode/electrolyte interfaces in situ by X-ray spectroscopies: old methods, new tricks. Physical Chemistry Chemical Physics, 2015, 17, 30229-30239.	1.3	83
6652	Facile synthesis of MoS <sub>2</sub> /RGO in dimethyl-formamide solvent as highly efficient catalyst for hydrogen evolution. Materials Letters, 2015, 161, 120-123.	1.3	45
6653	Ab Initio Assessment of the Structural and Optoelectronic Properties of Organic-ZnO Nanoclusters. Journal of Physical Chemistry A, 2015, 119, 10067-10075.	1.1	12
6654	The role of printing techniques for large-area dye sensitized solar cells. Semiconductor Science and Technology, 2015, 30, 104003.	1.0	78
6655	Single- and few-layer ZrS <sub>2</sub> as efficient photocatalysts for hydrogen production under visible light. International Journal of Hydrogen Energy, 2015, 40, 15503-15509.	3.8	50
6656	Synthesis and photophysical properties of donor-acceptor system based bipyridylporphyrins for dye-sensitized solar cells. Journal of Energy Chemistry, 2015, 24, 779-785.	7.1	5
6657	Ultrafast transient absorption spectrum of the room temperature ionic liquid 1-hexyl-3-methylimidazolium bromide: Confounding effects of photo-degradation. Radiation Physics and Chemistry, 2015, 117, 78-82.	1.4	13
6658	Enhanced photovoltaic performance and time varied controllable growth of a CuS nanoplatelet structured thin film and its application as an efficient counter electrode for quantum dot-sensitized solar cells via a cost-effective chemical bath deposition. Dalton Transactions, 2015, 44, 19330-19343.	1.6	37
6659	BiOI-BiVO <sub>4</sub> photoanodes with significantly improved solar water splitting capability: p-n junction to expand solar adsorption range and facilitate charge carrier dynamics. Nano Energy, 2015, 18, 222-231.	8.2	199
6660	Photosystem I-polyaniline/TiO <sub>2</sub> solid-state solar cells: simple devices for biohybrid solar energy conversion. Energy and Environmental Science, 2015, 8, 3572-3576.	15.6	85
6661	Fabrication of WO <sub>3</sub> /PANI nanocomposites for ammonia gas sensing application. , 2015, , .		1
6662	Effect of stoichiometry on the size of titanium monoxide nanoparticles produced by fragmentation. Inorganic Materials, 2015, 51, 1132-1137.	0.2	22
6663	Electrochemical Synthesis of Photoelectrodes and Catalysts for Use in Solar Water Splitting. Chemical Reviews, 2015, 115, 12839-12887.	23.0	481
6664	The effect of porosity on the current electron density at dye solar cell. Optik, 2015, 126, 2539-2542.	1.4	1
6665	Construction of TiO <sub>2</sub> nano-tubes arrays coupled with Ag <sub>2</sub> S nano-crystallites photoelectrode and its enhanced visible light photocatalytic performance and mechanism. Electrochimica Acta, 2015, 184, 264-275.	2.6	74
6666	Simultaneous enhancements in photon absorption and charge transport of bismuth vanadate photoanodes for solar water splitting. Nature Communications, 2015, 6, 8769.	5.8	471

#	ARTICLE	IF	CITATIONS
6667	The role of the domain size and titanium dopant in nanocrystalline hematite thin films for water photolysis. <i>Nanoscale</i> , 2015, 7, 18515-18523.	2.8	17
6668	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO <sub>4</sub> Photoanodes between the BiVO <sub>4</sub> and the FTO Side Illumination. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23350-23357.	1.5	70
6669	Exploration of charge transfer and absorption spectra of porphyrin-polyoxometalate hybrids to search for high performance sensitizers. <i>RSC Advances</i> , 2015, 5, 93659-93665.	1.7	4
6670	Recent advances in transition-metal dichalcogenide based nanomaterials for water splitting. <i>Nanoscale</i> , 2015, 7, 19764-19788.	2.8	327
6671	Solvation effects on the band edge positions of photocatalysts from first principles. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30499-30509.	1.3	47
6672	An all solution-based process for the fabrication of superstrate-type configuration CuInS <sub>2</sub> thin film solar cells. <i>RSC Advances</i> , 2015, 5, 97381-97390.	1.7	21
6673	Natural Dyes Extraction, Stability and Application to Dye-Sensitized Solar Cells. <i>Journal of Renewable Materials</i> , 2015, 3, 281-291.	1.1	3
6674	Respective electrode potential characteristics of photocatalytic fuel cell with visible-light responsive photoanode and air-breathing cathode. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16547-16555.	3.8	47
6675	Molecular Chromophore-Catalyst Assemblies for Solar Fuel Applications. <i>Chemical Reviews</i> , 2015, 115, 13006-13049.	23.0	412
6676	Surface Modification of TiO <sub>2</sub> Photoanodes with Fluorinated Self-Assembled Monolayers for Highly Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25741-25747.	4.0	29
6677	Enhanced photovoltaic performance of photoanodes based on Eu-doped ZnO nanowire arrays for dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3059-3066.	1.2	5
6678	A new method for improving the performance of dye sensitized solar cell using macro-porous silicon as photoanode. <i>Journal of Porous Materials</i> , 2015, 22, 1617-1626.	1.3	11
6679	Molecular cathode and photocathode materials for hydrogen evolution in photoelectrochemical devices. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015, 25, 90-105.	5.6	84
6680	Cost-effective counter electrode electrocatalysts from iron@palladium and iron@platinum alloy nanospheres for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 297, 1-8.	4.0	29
6681	Microwave-assisted synthesis of titanium dioxide nanocrystalline for efficient dye-sensitized and perovskite solar cells. <i>Solar Energy</i> , 2015, 120, 345-356.	2.9	37
6682	Counter electrode materials combined with redox couples in dye- and quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19638-19656.	5.2	68
6683	Draining the photoinduced electrons away from an anode: the preparation of Ag/Ag <sub>3</sub> PO <sub>4</sub> composite nanoplate photoanodes for highly efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18991-18999.	5.2	36
6684	Photophysical Processes Occurring in a Zn-phthalocyanine in Ethanol Solution and on TiO <sub>2</sub> Nanostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20256-20264.	1.5	10



#	ARTICLE	IF	CITATIONS
6703	A role for biosynthetic CdS quantum dots in extracellular electron transfer of <i>Saccharomyces cerevisiae</i> . <i>Process Biochemistry</i> , 2015, 50, 2061-2065.	1.8	27
6704	Electronic structure of porphyrin-based metal-organic frameworks and their suitability for solar fuel production photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23458-23465.	5.2	59
6705	Photovoltaic performance of dye-sensitized solar cells using TiO <sub>2</sub> nanotubes aggregates produced by hydrothermal synthesis. <i>International Journal of Modern Physics B</i> , 2015, 29, 1542050.	1.0	2
6706	Photoelectrochemical characterization of squaraine-sensitized nickel oxide cathodes deposited via screen-printing for p-type dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015, 356, 911-920.	3.1	44
6707	Cost-Effective Anthryl Dyes for Dye-Sensitized Cells under One Sun and Dim Light. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24282-24289.	1.5	60
6708	Facile Photoreduction Process for ZnO/Ag Hierarchical Nanostructured Photoelectrochemical Cell Integrated with Supercapacitor. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P424-P428.	0.9	10
6709	Graphene-Based Bulk-Heterojunction Solar Cells: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6237-6278.	0.9	71
6710	Printable electrolytes based on polyacrylonitrile and gamma-butyrolactone for dye-sensitized solar cell application. <i>Journal of Power Sources</i> , 2015, 298, 385-390.	4.0	38
6711	Artificial photosynthesis: Where are we now? Where can we go?. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015, 25, 32-45.	5.6	158
6712	A Multitechnique Study of CO Adsorption on the TiO <sub>2</sub> Anatase (101) Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21044-21052.	1.5	59
6713	Nickel-supported carbon nitride photocatalyst combined with organic dye for visible-light-driven hydrogen evolution from water. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24086-24091.	1.3	28
6714	Doping of TiO <sub>2</sub> for sensitized solar cells. <i>Chemical Society Reviews</i> , 2015, 44, 8326-8349.	18.7	355
6715	Photoanodic and photocathodic behaviour of La <sub>0.5</sub> Ti <sub>0.2</sub> CuS <sub>0.5</sub> O <sub>7</sub> electrodes in the water splitting reaction. <i>Chemical Science</i> , 2015, 6, 4513-4518.	3.7	36
6716	A two-storey structured photoanode of a 3D Cu <sub>2</sub> ZnSnS <sub>4</sub> /CdS/ZnO@steel composite nanostructure for efficient photoelectrochemical hydrogen generation. <i>Nanoscale</i> , 2015, 7, 15291-15299.	2.8	23
6717	High open-circuit voltage dye-sensitized solar cells based on a nanocomposite photoelectrode. <i>Journal of Photonics for Energy</i> , 2015, 5, 053088.	0.8	5
6718	Nanomaterials and Their Application. , 2015, , 1-50.		12
6719	Sustainable Energy Application. , 2015, , 181-231.		1
6720	Striving Toward Noble-Metal-Free Photocatalytic Water Splitting: The Hydrogenated-Graphene-TiO <sub>2</sub> Prototype. <i>Chemistry of Materials</i> , 2015, 27, 6282-6296.	3.2	81

#	ARTICLE	IF	CITATIONS
6721	Effect of hydrogen doping on the loading of titania nanotube films with copper selenide species via alternating current deposition. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 1141-1151.	1.5	4
6722	Morphology and band gap controlled AACVD of CdSe and CdS $\text{Se}^{1\hat{a}}$ thin films using novel single source precursors: Bis(diethyldithio/diselenocarbamate)cadmium(II). <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 848-854.	1.9	18
6723	Enhancement of luminescence of nanocrystalline $\text{TiO}_2:\text{Yb}^{3+}$ nanopowders due to co-doping with $\text{Nd}^{3+}$ ions. <i>Optical Materials</i> , 2015, 47, 361-365.	1.7	4
6724	Scaffolding an ultrathin CdS layer on a ZnO nanorod array using pulsed electrodeposition for improved photocharge transport under visible light illumination. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19582-19587.	5.2	55
6725	Enhanced Photovoltaic Performance of Dye-Sensitized Solar Cells by Efficient Near-Infrared Sunlight Harvesting using Upconverting $\text{Y}_2\text{O}_3:\text{Er}^{3+}/\text{Yb}^{3+}$ Phosphor Nanoparticles. <i>Nanoscale Research Letters</i> , 2015, 10, 1030.	3.1	40
6726	Titania Nanotubes for Solar Cell Applications. <i>Springer Series in Materials Science</i> , 2015, , 289-306.	0.4	0
6727	Study of the structural phase transformation, and optical behavior of the as synthesized $\text{ZnO}@\text{SnO}_2@\text{TiO}_2$ nanocomposite. <i>Phase Transitions</i> , 2015, 88, 1122-1136.	0.6	6
6728	Efficient Dye-Sensitized Solar Cells Made from High Catalytic Ability of Polypyrrole@Platinum Counter Electrode. <i>Nanoscale Research Letters</i> , 2015, 10, 1015.	3.1	11
6729	Unravel the Impact of Anchoring Groups on the Photovoltaic Performances of Diketopyrrolopyrrole Sensitizers for Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2389-2396.	3.2	65
6730	Dynamics of Photogenerated Charge Carriers in $\text{WO}_3/\text{BiVO}_4$ Heterojunction Photoanodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20792-20800.	1.5	203
6731	A facile method for the structure control of $\text{TiO}_2$ particles at low temperature. <i>Applied Surface Science</i> , 2015, 355, 1051-1056.	3.1	15
6732	Statistical $\text{TiO}_2$ /dye-mass dependence and dye-regeneration efficiency on dye-sensitized solar cells. <i>Nano Energy</i> , 2015, 16, 383-388.	8.2	3
6733	Non-innocent adsorption of Co-porphyrin on rutile(110). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22846-22854.	1.3	22
6734	Single-Step Synthesis of $\text{SnS}_2$ Nanosheet-Decorated $\text{TiO}_2$ Anatase Nanofibers as Efficient Photocatalysts for the Degradation of Gas-Phase Diethylsulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19324-19334.	4.0	105
6735	Graphene/nano-porous silicon and graphene/bimetallic silicon nanostructures ( $\text{Pt}@\text{M}$ , M: Pd, Ru, Rh), efficient electrocatalysts for the hydrogen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23770-23782.	1.3	33
6736	Effects of multilayer coating and calcination procedures on the morphology of dye-sensitized solar cell semiconductor photoelectrodes. <i>Thin Solid Films</i> , 2015, 590, 230-240.	0.8	4
6737	Vertically Aligned $\text{ZnO}/\text{In}_x\text{S}_y$ Core@Shell Nanorods for High Efficient Dye-Sensitized Solar Cells. <i>Nano</i> , 2015, 10, 1550103.	0.5	4
6738	Honeycomb in honeycomb carbon bubbles: excellent Li- and Na-storage performances. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20065-20072.	5.2	17

#	ARTICLE	IF	CITATIONS
6739	Constructed Single-Crystal Rutile TiO <sub>2</sub> Cluster and Plasmon Synergistic Effect for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 180, 705-711.	2.6	8
6740	Bi <sub>2</sub> O <sub>3</sub> photoanode in DSSC and study of the electrode-electrolyte interface. <i>RSC Advances</i> , 2015, 5, 78299-78305.	1.7	51
6741	Behavioral study of flexible platinum counter electrodes under alternative bending conditions. <i>RSC Advances</i> , 2015, 5, 73155-73161.	1.7	1
6742	First-Principles Screening and Design of Novel Triphenylamine-Based $\pi$ -A Organic Dyes for Highly Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21852-21859.	1.5	39
6743	Electrolyte-Gated WO <sub>3</sub> Transistors: Electrochemistry, Structure, and Device Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21732-21738.	1.5	42
6744	Systematic Investigations on the Roles of the Electron Acceptor and Neighboring Ethynylene Moiety in Porphyrins for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21956-21965.	4.0	76
6745	Discovery of Overcoating Metal Oxides on Photoelectrode for Water Splitting by Automated Screening. <i>ACS Combinatorial Science</i> , 2015, 17, 592-599.	3.8	12
6746	Coordination tuning of cobalt phosphates towards efficient water oxidation catalyst. <i>Nature Communications</i> , 2015, 6, 8253.	5.8	352
6747	Dye-sensitized solar cells based on a 1D/3D double-layered ZnO photoanode with improved photovoltaic performance. <i>RSC Advances</i> , 2015, 5, 81253-81259.	1.7	7
6748	Titanate and titania nanostructured materials for environmental and energy applications: a review. <i>RSC Advances</i> , 2015, 5, 79479-79510.	1.7	247
6749	Relationship between measurement conditions and energy levels in the organic dyes used in dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 82859-82864.	1.7	4
6750	A photoluminescent layer for improving the performance of dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 7253-7256.	2.2	13
6751	Corrosion resistant three-dimensional nanotextured silicon for water photo-oxidation. <i>Nanoscale</i> , 2015, 7, 16755-16762.	2.8	12
6752	Mesoporous TiO <sub>2</sub> -Based Photoanode Sensitized by BiOI and Investigation of Its Photovoltaic Behavior. <i>Langmuir</i> , 2015, 31, 10279-10284.	1.6	57
6753	Influence of Dye Architecture of Triphenylamine Based Organic Dyes on the Kinetics in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21775-21783.	1.5	35
6754	Sea urchin-like TiO <sub>2</sub> microspheres as scattering layer of nanosized TiO <sub>2</sub> film-based dye-sensitized solar cell with enhanced conversion efficiency. <i>Materials Chemistry and Physics</i> , 2015, 164, 238-245.	2.0	7
6755	Preferential Photooxidation of CO in Hydrogen across the Crystalline Face Boundary over Spheroidal ZnO Promoted by Cu Ions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21585-21598.	1.5	10
6756	Theoretical and experimental studies of phenol oxidation by ruthenium complex with N,N,N-tris(benzimidazol-2-yl-methyl)amine. <i>Journal of Molecular Modeling</i> , 2015, 21, 224.	0.8	3

#	ARTICLE	IF	CITATIONS
6757	Metal oxide semiconductors for dye degradation. <i>Materials Research Bulletin</i> , 2015, 72, 220-228.	2.7	22
6758	Tailoring the photocurrent in BaTiO <sub>3</sub> /Nb:SrTiO <sub>3</sub> photoanodes by controlled ferroelectric polarization. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	32
6759	Effects of different treatment of TiO <sub>2</sub> electrodes on photovoltaic characteristics of dye-sensitized solar cells. <i>Surface Engineering and Applied Electrochemistry</i> , 2015, 51, 394-400.	0.3	4
6760	Hierarchical Cu <sub>7</sub> S <sub>4</sub> nanotubes assembled by hexagonal nanoplates with high catalytic performance for quantum dot-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 299, 212-220.	4.0	31
6761	High-Throughput Synthesis and Screening of Titania-Based Photocatalysts. <i>ACS Combinatorial Science</i> , 2015, 17, 548-569.	3.8	54
6762	Phenanthrimidazole as a fluorescent sensor with logic gate operations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 886-891.	2.0	4
6763	Relation between the Photocatalytic and Photoelectrocatalytic Performance for the Particulate Semiconductor-Based Photoconversion Systems with Surface Phase Junction Structure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22460-22464.	1.5	28
6764	High-efficiency dye-sensitized solar cells of up to 8.03% by air plasma treatment of ZnO nanostructures. <i>Chemical Communications</i> , 2015, 51, 16229-16232.	2.2	34
6765	Theoretical studies of heteroatom-doping in TiO <sub>2</sub> to enhance the electron injection in dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 79868-79873.	1.7	16
6766	The effect of carbonization temperature on the electrocatalytic performance of nitrogen-doped porous carbon as counter electrode of dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6913-6919.	1.1	6
6767	An Iron-based Film for Highly Efficient Electrocatalytic Oxygen Evolution from Neutral Aqueous Solution. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21852-21859.	4.0	161
6768	Photocatalytic water oxidation by layered Co/h-BCN hybrids. <i>Science China Materials</i> , 2015, 58, 867-876.	3.5	67
6769	Polypyrrole-coated multi-walled carbon nanotubes for the simple preparation of counter electrodes in dye-sensitized solar cells. <i>Synthetic Metals</i> , 2015, 210, 323-331.	2.1	41
6770	Bilayer TiO <sub>2</sub> Photoanode Consisting of Microspheres and Pyramids with Reinforced Interface Connection and Light Utilization for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 180, 280-286.	2.6	14
6771	Hierarchical SnO <sub>2</sub> @SnS <sub>2</sub> Counter Electrodes for Remarkable High-efficiency Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 186, 125-132.	2.6	33
6772	Utilization of the dilute acidic sulfate effluent as resources by coupling solvent extraction-oxidation-hydrolysis. <i>Journal of Hazardous Materials</i> , 2015, 299, 702-710.	6.5	7
6773	Photochemistry of free and bound Zn-chlorophyll analogues to synthetic peptides depend on the quinone and pH. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 152, 416-424.	1.7	2
6774	Catalytic Reduction of CO <sub>2</sub> by Renewable Organohydrides. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5078-5092.	2.1	59

#	ARTICLE	IF	CITATIONS
6775	Near-unity photoluminescence quantum yield in MoS <sub>2</sub> . <i>Science</i> , 2015, 350, 1065-1068.	6.0	993
6776	Semiconductor interfacial carrier dynamics via photoinduced electric fields. <i>Science</i> , 2015, 350, 1061-1065.	6.0	118
6777	Adsorption of porphyrin and carminic acid on TiO <sub>2</sub> nanoparticles: A photo-active nano-hybrid material for hybrid bulk heterojunction solar cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 153, 397-404.	1.7	22
6778	Electrochemical deposition of Fe <sub>2</sub> O <sub>3</sub> in the presence of organic additives: a route to enhanced photoactivity. <i>RSC Advances</i> , 2015, 5, 103512-103522.	1.7	34
6779	RF Sputtered Iridium (Ir) Film as a Counter Electrode for Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2015, 44, 4400-4404.	1.0	9
6780	Spectral splitting photovoltaics using perovskite and wideband dye-sensitized solar cells. <i>Nature Communications</i> , 2015, 6, 8834.	5.8	122
6781	Microcontact Printing-Assisted Access of Graphitic Carbon Nitride Films with Favorable Textures toward Photoelectrochemical Application. <i>Advanced Materials</i> , 2015, 27, 712-718.	11.1	177
6782	Varying the Electronic Structure of Surface-Bound Ruthenium(II) Polypyridyl Complexes. <i>Inorganic Chemistry</i> , 2015, 54, 460-469.	1.9	56
6783	Novel PtO decorated MWCNTs as a highly efficient counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 8307-8310.	1.7	5
6784	To What Extent Can Surface Morphology Influence the Photoelectrochemical Performance of Au:WO <sub>3</sub> Electrodes?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1271-1279.	1.5	23
6785	Mechanism of Photocatalytic Hydrogen Generation by a Polypyridyl-Based Cobalt Catalyst in Aqueous Solution. <i>Inorganic Chemistry</i> , 2015, 54, 646-657.	1.9	117
6786	Electrocatalytic Performance of Pd/SnO <sub>2</sub> -TiO <sub>2</sub> /MWCNT Catalyst for Oxidation of Ethylene Glycol in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2015, 162, F123-F128.	1.3	4
6787	Organic dyes containing a hydrazone moiety as auxiliary donor for solid-state DSSC applications. <i>Dyes and Pigments</i> , 2015, 114, 175-183.	2.0	15
6789	Efficient quantum dot-sensitized solar cell based on Cd <sub>x</sub> Se <sub>1-x</sub> /Mn-CdS/TiO <sub>2</sub> nanotube array electrode. <i>Electrochimica Acta</i> , 2015, 153, 200-209.	2.6	41
6790	Intermolecular Hydrogen Bonding and Molecular Orbital Distortion in 4-Hydroxycyanobenzene Investigated by X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 121-129.	1.5	15
6791	Improved power conversion efficiency for dye-sensitized solar cells using a subwavelength-structured antireflective coating. <i>Applied Surface Science</i> , 2015, 328, 198-204.	3.1	11
6792	Nickel doped cobalt sulfide as a high performance counter electrode for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015, 328, 78-85.	3.1	34
6793	Spontaneous Water Oxidation at Hematite (±Fe <sub>2</sub> O <sub>3</sub> ) Crystal Faces. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1550-1559.	4.0	33



#	ARTICLE	IF	CITATIONS
6794	Electroless deposition of Au/Pt/Pd nanoparticles on p-Si(111) for the light-induced hydrogen evolution reaction. <i>Catalysis Today</i> , 2015, 244, 3-9.	2.2	14
6795	Metal Oxide Semiconductors for Dye- and Quantum-Dot-Sensitized Solar Cells. <i>Small</i> , 2015, 11, 1744-1774.	5.2	107
6796	Controlling Surface Reactions with Nanopatterned Surface Elastic Strain. <i>ACS Nano</i> , 2015, 9, 82-87.	7.3	14
6797	Heterostructure formation from hydrothermal annealing of preformed nanocrystals. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2216-2225.	5.2	29
6798	Carrier dynamics of a visible-light-responsive Ta <sub>3</sub> N <sub>5</sub> photoanode for water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2670-2677.	1.3	85
6799	Single crystalline Cu <sub>2</sub> ZnSnS <sub>4</sub> nanosheet arrays for efficient photochemical hydrogen generation. <i>RSC Advances</i> , 2015, 5, 2543-2549.	1.7	53
6800	Density Functional Studies of Stoichiometric Surfaces of Orthorhombic Hybrid Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2015, 119, 1136-1145.	1.5	73
6801	Engineering heterogeneous semiconductors for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2485-2534.	5.2	1,609
6802	Cobalt-doped cadmium sulfide nanoparticles as efficient strategy to enhance performance of quantum dot sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 278, 98-103.	4.0	39
6803	Fabrication and study the performance of solar cell made from new nanostructure phthalocyanine complex thin film. <i>Synthetic Metals</i> , 2015, 199, 388-393.	2.1	5
6804	Life cycle assessment comparison of emerging and traditional Titanium dioxide manufacturing processes. <i>Journal of Cleaner Production</i> , 2015, 89, 137-147.	4.6	84
6805	Dual emission from 2-(4- $\beta$ -N,N-dimethylaminophenyl)pyridoimidazole nanoparticle composite: Effect of $\beta$ -cyclodextrin. <i>Journal of Colloid and Interface Science</i> , 2015, 443, 23-29.	5.0	3
6806	Metal oxide nanopowder. , 2015, , 343-401.		5
6807	Recent advances in dye-sensitized photoelectrochemical cells for solar hydrogen production based on molecular components. <i>Energy and Environmental Science</i> , 2015, 8, 760-775.	15.6	363
6808	Complex three-dimensional tungsten oxide nanowire networks: controllable synthesis and growth mechanism. <i>CrystEngComm</i> , 2015, 17, 889-894.	1.3	8
6809	Diethylenetriamine (DETA)-assisted anchoring of Co <sub>3</sub> O <sub>4</sub> nanorods on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1761-1768.	5.2	79
6810	Sol-gel derived nanocrystalline ZnO photoanode film for dye sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2015, 31, 139-146.	1.9	19
6811	A research on the visible light photocatalytic activity and kinetics of CdS/CdSe co-modified TiO <sub>2</sub> nanotube arrays. <i>Surface and Coatings Technology</i> , 2015, 261, 356-363.	2.2	20

#	ARTICLE	IF	CITATIONS
6812	In situ synthesis of a NiS/Ni <sub>3</sub> S <sub>2</sub> nanorod composite array on Ni foil as a FTO-free counter electrode for dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 1623-1626.	2.8	94
6813	Vectorial Electron Transfer for Improved Hydrogen Evolution by Mercaptopropionic Acid-Regulated CdSe Quantum Dots@TiO <sub>2</sub> @Ni(OH) <sub>2</sub> Assembly. <i>ChemSusChem</i> , 2015, 8, 642-649. <sup>3.6</sup>	3.6	39
6814	Nanostructured Ti-Fe <sub>2</sub> O <sub>3</sub> /Cu <sub>2</sub> O heterojunction photoelectrode for efficient hydrogen production. <i>Thin Solid Films</i> , 2015, 574, 125-131.	0.8	59
6815	In situ synthesis of ZnO/ZnTe common cation heterostructure and its visible-light photocatalytic reduction of CO <sub>2</sub> into CH <sub>4</sub> . <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 345-352.	10.8	110
6816	Investigation of graphene nanosheets as counter electrodes for efficient dye-sensitized solar cells. <i>Organic Electronics</i> , 2015, 17, 57-65.	1.4	26
6817	Facile fabrication of sub-100-nm mesoscale inverse opal films and their application in dye-sensitized solar cell electrodes. <i>Scientific Reports</i> , 2014, 4, 6804.	1.6	38
6818	Performance of zinc chlorophyll based molecules for dye sensitized solar cell. <i>Dyes and Pigments</i> , 2015, 114, 129-137.	2.0	11
6819	Organic-inorganic lead halide perovskite solar cell materials: A possible stability problem. <i>Chemical Physics Letters</i> , 2015, 619, 193-195.	1.2	101
6820	Activity and Recyclability of an Iridium-EDTA Water Oxidation Catalyst Immobilized onto Rutile TiO <sub>2</sub> . <i>ACS Catalysis</i> , 2015, 5, 264-271.	5.5	48
6821	Synthesis and properties of polydiphenylsilane/fullerene C <sub>60</sub> nanocomposites. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 430-436.	2.0	19
6822	Highly efficient dye sensitized solar cells based on ordered and disordered mesoporous titania thick templated films. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2294-2304.	5.2	15
6823	Enhanced photochromic efficiency of transparent and flexible nanocomposite films based on PEO-PPG-PEO and tungstate hybridization. <i>Journal of Materials Chemistry C</i> , 2015, 3, 177-186.	2.7	21
6824	Platinum-Free Counter Electrode Comprised of Metal-Organic-Framework (MOF)-Derived Cobalt Sulfide Nanoparticles for Efficient Dye-Sensitized Solar Cells (DSSCs). <i>Scientific Reports</i> , 2014, 4, 6983.	1.6	182
6825	Synthesis of phenothiazine-based di-anchoring dyes containing fluorene linker and their photovoltaic performance. <i>Dyes and Pigments</i> , 2015, 114, 47-54.	2.0	47
6826	Colored titania nanocrystals and excellent photocatalysis for water cleaning. <i>Catalysis Communications</i> , 2015, 60, 55-59.	1.6	41
6827	Small bandgap naphthalene diimide copolymers for efficient inorganic-organic hybrid solar cells. <i>RSC Advances</i> , 2015, 5, 2147-2154.	1.7	8
6828	Demonstrating Online Monitoring of Air Pollutant Photodegradation in a 3D Printed Gas-Phase Photocatalysis Reactor. <i>Journal of Chemical Education</i> , 2015, 92, 678-682.	1.1	34
6829	Effective charge separation in the rutile TiO <sub>2</sub> nanorod-coupled $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> with exceptionally high visible activities. <i>Scientific Reports</i> , 2014, 4, 6180.	1.6	95

#	ARTICLE	IF	CITATIONS
6830	Bifacial dye-sensitized solar cells: A strategy to enhance overall efficiency based on transparent polyaniline electrode. <i>Scientific Reports</i> , 2014, 4, 4028.	1.6	141
6831	Nanostructured thin films based on TiO <sub>2</sub> and/or SiC for use in photoelectrochemical cells: A review of the material characteristics, synthesis and recent applications. <i>Materials Science in Semiconductor Processing</i> , 2015, 29, 56-68.	1.9	72
6832	TiO <sub>2</sub> /SnO <sub>2</sub> nanotubes for hydrogen generation by photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 841-851.	3.8	65
6833	Pt-free solar driven photoelectrochemical hydrogen fuel generation using 1T MoS <sub>2</sub> co-catalyst assembled CdS QDs/TiO <sub>2</sub> photoelectrode. <i>Chemical Communications</i> , 2015, 51, 522-525.	2.2	60
6834	Influence of annealing on microstructural and photoelectrochemical characteristics of CuSCN thin films via electrochemical process. <i>Journal of Alloys and Compounds</i> , 2015, 622, 669-675.	2.8	22
6835	Remediation of 17- $\beta$ -ethinylestradiol aqueous solution by photocatalysis and electrochemically-assisted photocatalysis using TiO <sub>2</sub> and TiO <sub>2</sub> /WO <sub>3</sub> electrodes irradiated by a solar simulator. <i>Water Research</i> , 2015, 72, 305-314.	5.3	62
6836	Triazatruxene-based organic dyes containing a rhodanine-3-acetic acid acceptor for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 113, 737-742.	2.0	39
6837	Facile synthesis of high quality multi-walled carbon nanotubes on novel 3D KIT-6: application in high performance dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 679-689.	2.8	9
6838	Influence of dye-concentration on the light-scattering effect in dye-sensitized solar cell. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 594-600.	2.0	17
6839	Engineered Interfacial and Configuration Design of Double Layered SnO <sub>2</sub> @TiO <sub>2</sub> -ZnO Nanoplates Ternary Heterostructures for Efficient Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 151, 399-406.	2.6	26
6840	A Poly(3,4-ethylenedioxythiopyrrole)-Au@WO <sub>3</sub> -Based Electrochromic Pseudocapacitor. <i>ChemPhysChem</i> , 2015, 16, 377-389.	1.0	41
6841	Cost-effective bifacial dye-sensitized solar cells with transparent iron selenide counter electrodes. An avenue of enhancing rear-side electricity generation capability. <i>Journal of Power Sources</i> , 2015, 275, 288-293.	4.0	23
6842	Spectroscopic (FT-IR, FT-Raman and UV-Visible) investigations, NMR chemical shielding anisotropy (CSA) parameters of 2,6-Diamino-4-chloropyrimidine for dye sensitized solar cells using density functional theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1557-1568.	2.0	16
6843	Functional titanium oxide nano-particles as electron lifetime, electrical conductance enhancer, and long-term performance booster in quasi-solid-state electrolyte for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 274, 1283-1291.	4.0	24
6844	Dye-Sensitized Solar Cell Counter Electrodes Based on Carbon Nanotubes. <i>ChemPhysChem</i> , 2015, 16, 53-65.	1.0	72
6845	Linker free synthesis of TiO <sub>2</sub> /Bi <sub>2</sub> S <sub>3</sub> heterostructure towards solar cell application: Facile chemical routes. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 335-342.	1.9	20
6846	Novel carbazole based sensitizers for efficient dye-sensitized solar cells: Role of the hexyl chain. <i>Dyes and Pigments</i> , 2015, 114, 18-23.	2.0	21
6847	Fabrication of ZnO nanostructures sensitized with CdS quantum dots for photovoltaic application using a convenient solution method. <i>Materials Research Bulletin</i> , 2015, 61, 492-498.	2.7	11

#	ARTICLE	IF	CITATIONS
6848	Fluorescence Enhancement of Covalently Linked 1,2-diphenylethene Chromophores with Naphthalene-1,8-diyl Linker Units: Analysis Based on Kinetic Constants. <i>Chemistry - A European Journal</i> , 2015, 21, 1637-1644.	1.7	34
6849	Mechanistic insights into solar water oxidation by cobalt-phosphate-modified $\text{Fe}_2\text{O}_3$ photoanodes. <i>Energy and Environmental Science</i> , 2015, 8, 577-584.	15.6	164
6850	Can elongation of the $\pi$ -system in triarylamine derived sensitizers with either benzothiadiazole and/or ortho-fluorophenyl moieties enrich their light harvesting efficiency? â€” a theoretical study. <i>RSC Advances</i> , 2015, 5, 3978-3998.	1.7	32
6851	Utilization of electron-deficient thiadiazole derivatives as $\pi$ -spacer for the red shifting of absorption maxima of diarylamine-fluorene based dyes. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	43
6852	A simple method to achieve light scattering in dye-sensitized solar cells using a low-temperature-sintering $\text{TiO}_2$ paste. <i>Materials Letters</i> , 2015, 138, 268-271.	1.3	4
6853	Planar amine-based dye features the rigidified O-bridged dithiophene $\pi$ -spacer: A potential high-efficiency sensitizer for dye-sensitized solar cells application. <i>Journal of Power Sources</i> , 2015, 275, 207-216.	4.0	45
6854	Photo-conversion efficiency measurement of dye-sensitized solar cell using nanocrystalline $\text{TiO}_2$ thin film as photo-anodes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 61, 21-26.	2.5	7
6855	Diethylenetriamine-assisted hydrothermal synthesis of dodecahedral $\text{Fe}_2\text{O}_3$ nanocrystals with enhanced and stable photoelectrochemical activity. <i>CrystEngComm</i> , 2015, 17, 27-31.	1.3	11
6856	Effects of low pressure plasma treatments on DSSCs based on rutile $\text{TiO}_2$ array photoanodes. <i>Applied Surface Science</i> , 2015, 324, 143-151.	3.1	19
6857	Highly effective nickel sulfide counter electrode catalyst prepared by optimal hydrothermal treatment for quantum dot-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 275, 547-556.	4.0	66
6858	Photochemical upconversion: present status and prospects for its application to solar energy conversion. <i>Energy and Environmental Science</i> , 2015, 8, 103-125.	15.6	471
6859	$\text{BiOI}/\text{TiO}_2$ -nanorod array heterojunction solar cell: Growth, charge transport kinetics and photoelectrochemical properties. <i>Applied Surface Science</i> , 2015, 324, 532-537.	3.1	60
6860	Dominating Energy Losses in NiO p-Type Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401387.	10.2	75
6861	Effect of Double-Layered n-Type GaN on the Photoelectrochemical Properties in NaOH Aqueous Solution. <i>Journal of the Electrochemical Society</i> , 2015, 162, H19-H22.	1.3	2
6862	Ultra-thin resistive switching oxide layers self-assembled by field-induced oxygen migration (FIOM) technique. <i>Scientific Reports</i> , 2014, 4, 6871.	1.6	6
6863	Plasmon-enhanced reverse water gas shift reaction over oxide supported Au catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 2590-2601.	2.1	104
6864	Durable hydrogen evolution from water driven by sunlight using $(\text{Ag,Cu})\text{GaSe}_2$ photocathodes modified with CdS and $\text{CuGa}_3\text{Se}_5$ . <i>Chemical Science</i> , 2015, 6, 894-901.	3.7	89
6865	Plasmonic silver nanoparticles matched with vertically aligned nitrogen-doped titanium dioxide nanotube arrays for enhanced photoelectrochemical activity. <i>Journal of Power Sources</i> , 2015, 274, 464-470.	4.0	26

#	ARTICLE	IF	CITATIONS
6866	High-efficiency photoelectrochemical electrodes based on ZnIn <sub>2</sub> S <sub>4</sub> sensitized ZnO nanotube arrays. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 179-188.	10.8	128
6867	Semiconductor-based photocatalysts and photoelectrochemical cells for solar fuel generation: a review. <i>Catalysis Science and Technology</i> , 2015, 5, 1360-1384.	2.1	824
6868	Adsorption of organic molecules at the TiO <sub>2</sub> (110) surface: The effect of van der Waals interactions. <i>Surface Science</i> , 2015, 632, 142-153.	0.8	57
6869	Flexible electronics based on inorganic nanowires. <i>Chemical Society Reviews</i> , 2015, 44, 161-192.	18.7	429
6870	Conducting gel electrolytes with microporous structures for efficient quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 273, 1148-1155.	4.0	36
6871	Synthesis, optical, electrochemical and photovoltaic properties of organic dyes containing trifluorenylamine donors. <i>Dyes and Pigments</i> , 2015, 113, 78-86.	2.0	20
6872	Photocatalytic Degradation of Methyl Orange by CeO <sub>2</sub> and Fe-doped CeO <sub>2</sub> Films under Visible Light Irradiation. <i>Scientific Reports</i> , 2014, 4, 5757.	1.6	362
6873	CdS sensitized 3D hierarchical TiO <sub>2</sub> /ZnO heterostructure for efficient solar energy conversion. <i>Scientific Reports</i> , 2014, 4, 5721.	1.6	64
6874	Carbon nanohorn-based electrolyte for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 241-246.	15.6	49
6875	Metal-free organic-dye-based flexible dye-sensitized solar textiles with panchromatic effect. <i>Dyes and Pigments</i> , 2015, 113, 378-389.	2.0	17
6876	From nanocorals to nanorods to nanoflowers nanoarchitecture for efficient dye-sensitized solar cells at relatively low film thickness: All Hydrothermal Process. <i>Scientific Reports</i> , 2014, 4, 5451.	1.6	45
6877	Synthesis of zinc chlorophyll materials for dye-sensitized solar cell applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 676-682.	2.0	12
6878	Molar optimization of spray pyrolyzed SnS thin films for photoelectrochemical applications. <i>Journal of Alloys and Compounds</i> , 2015, 619, 458-463.	2.8	35
6879	Photoelectrochemical bioanalysis: the state of the art. <i>Chemical Society Reviews</i> , 2015, 44, 729-741.	18.7	750
6880	Theoretical studies of electronic and optical properties of the triphenylamine-based organic dyes with diketopyrrolopyrrole chromophore. <i>Dyes and Pigments</i> , 2015, 113, 87-95.	2.0	50
6881	Energy level control: toward an efficient hot electron transport. <i>Scientific Reports</i> , 2014, 4, 5983.	1.6	32
6882	Structure-property relationships: Steric effect in ancillary ligand and how it influences photocurrent and photovoltage in dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 113, 151-159.	2.0	15
6883	New Light-Harvesting Materials Using Accurate and Efficient Bandgap Calculations. <i>Advanced Energy Materials</i> , 2015, 5, 1400915.	10.2	124

#	ARTICLE	IF	CITATIONS
6884	Biomimetic transparent and superhydrophobic coatings: from nature and beyond nature. <i>Chemical Communications</i> , 2015, 51, 1775-1794.	2.2	209
6885	Synthesis and application of layered titanates in the photocatalytic degradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 23-29.	10.8	23
6886	Characterization and mechanism of MoS <sub>2</sub> /CdS composite photocatalyst used for hydrogen production from water splitting under visible light. <i>Chemical Engineering Journal</i> , 2015, 260, 642-648.	6.6	220
6887	Preparation of PAA-g-PEG/PANI polymer gel electrolyte and its application in quasi solid state dye-sensitized solar cells. <i>Polymer Engineering and Science</i> , 2015, 55, 322-326.	1.5	18
6888	Enhanced dye-sensitized solar cell performance using TiO <sub>2</sub> :Nb blocking layer deposited by soft chemical method. <i>Ceramics International</i> , 2015, 41, 205-209.	2.3	13
6889	CeO <sub>2</sub> -TiO <sub>2</sub> photoanode for solid state natural dye-sensitized solar cell. <i>Ionics</i> , 2015, 21, 541-546.	1.2	26
6890	Basella alba rubra spinach pigment-sensitized TiO <sub>2</sub> thin film-based solar cells. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 297-303.	1.6	15
6891	Zn(II)-porphyrin dyes with several electron acceptor groups linked by vinyl-fluorene or vinyl-thiophene spacers for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2015, 112, 127-137.	2.0	21
6892	A general framework for the assessment of solar fuel technologies. <i>Energy and Environmental Science</i> , 2015, 8, 126-157.	15.6	293
6893	Photocurrent generation by adsorption of two main pigments of <i>Halobacterium salinarum</i> on TiO <sub>2</sub> nanostructured electrode. <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 121-125.	1.4	33
6894	Micro- and Nanostructures of Photoelectrodes for Solar-Driven Water Splitting. <i>Advanced Materials</i> , 2015, 27, 562-568.	11.1	50
6895	Panchromatic quasi-solid-state squaraine dye sensitized solar cells enhanced by Förster resonance energy transfer of DCM-pyran. <i>Dyes and Pigments</i> , 2015, 113, 675-681.	2.0	13
6896	Photoelectrocatalytic oxidation of glucose at a ruthenium complex modified titanium dioxide electrode promoted by uric acid and ascorbic acid for photoelectrochemical fuel cells. <i>Journal of Power Sources</i> , 2015, 273, 142-148.	4.0	23
6897	Sintesis Semikonduktor TiO <sub>2</sub> serta Aplikasinya pada Dye-Sensitized Solar Cell (DSSC) Menggunakan Dye Indigo Carmine. <i>Jurnal Kimia Sains Dan Aplikasi</i> , 2016, 19, 111-117.	0.1	2
6898	Binary Cobalt and Magnesium Hydroxide Catalyst for Oxygen Evolution Reaction in Alkaline Water Electrolysis. <i>International Journal of Electrochemical Science</i> , 2016, 11, 6204-6214.	0.5	9
6899	Improving the Photocurrent in Quantum-Dot-Sensitized Solar Cells by Employing Alloy Pb <sub>x</sub> Cd <sub>1-x</sub> S Quantum Dots as Photosensitizers. <i>Nanomaterials</i> , 2016, 6, 97.	1.9	25
6900	Twin Cell Technology for Hydrogen Generation. , 2016, , .		0
6901	Metal-Semiconductor Hybrid Nano-Heterostructures for Photocatalysis Application. , 0, , .		1

#	ARTICLE	IF	CITATIONS
6902	Components of Natural Photosynthetic Apparatus in Solar Cells. , 0, , .		4
6903	Scanning probe microscopy studies on the adsorption of selected molecular dyes on titania. Beilstein Journal of Nanotechnology, 2016, 7, 1642-1653.	1.5	14
6904	Synthesis of Cu <sub>3</sub> SnS <sub>4</sub> Nanoparticles with a Novel Structure as Low-Cost Counter Electrode in Dye-Sensitized Solar Cell. International Journal of Electrochemical Science, 2016, 11, 6514-6522.	0.5	9
6905	Controlled Al <sup>3+</sup> Incorporation in the ZnO Lattice at 188 Å°C by Soft Reactive Co-Sputtering for Transparent Conductive Oxides. Energies, 2016, 9, 433.	1.6	9
6908	Photoelectric Properties of DSSCs Sensitized by Phloxine B and Bromophenol Blue. International Journal of Photoenergy, 2016, 2016, 1-11.	1.4	5
6909	Photocatalytic and Photoelectrochemical Water Splitting on TiO <sub>2</sub> via Photosensitization. Journal of Nanomaterials, 2016, 2016, 1-12.	1.5	38
6910	Ag-Doped TiO <sub>2</sub> Nanotube Arrays Composite Film as a Photoanode for Enhancing the Photoelectric Conversion Efficiency in DSSCs. International Journal of Photoenergy, 2016, 2016, 1-9.	1.4	2
6911	Typical Non-“TiO <sub>2</sub> -Based Visible-Light Photocatalysts. , 0, , .		6
6912	First Principle Evaluation of Photocatalytic Suitability for TiO <sub>2</sub> -Based Nanotubes. , 2016, , .		1
6913	Synthesis and Characterization of N-Doped Porous TiO <sub>2</sub> Hollow Spheres and Their Photocatalytic and Optical Properties. Materials, 2016, 9, 849.	1.3	20
6914	The Applications of Morphology Controlled ZnO in Catalysis. Catalysts, 2016, 6, 188.	1.6	110
6915	Recent progress of ZnO hierarchical nanostructure for photovoltaic application. International Journal of Nanomanufacturing, 2016, 12, 336.	0.3	2
6916	Carbon Materials as Additives to WO <sub>3</sub> for an Enhanced Conversion of Simulated Solar Light. Frontiers in Materials, 2016, 3, .	1.2	7
6917	WS <sub>2</sub> as an Effective Noble-Metal Free Cocatalyst Modified TiSi <sub>2</sub> for Enhanced Photocatalytic Hydrogen Evolution under Visible Light Irradiation. Catalysts, 2016, 6, 136.	1.6	23
6918	Inorganic p-Type Semiconductors: Their Applications and Progress in Dye-Sensitized Solar Cells and Perovskite Solar Cells. Energies, 2016, 9, 331.	1.6	69
6919	Nanostructured p-Type Semiconductor Electrodes and Photoelectrochemistry of Their Reduction Processes. Energies, 2016, 9, 373.	1.6	46
6920	Zinc Porphyrins Possessing Three p-Carboxyphenyl Groups: Effect of the Donor Strength of Push-Groups on the Efficiency of Dye Sensitized Solar Cells. Energies, 2016, 9, 513.	1.6	6
6921	Effect of Photoanode Design on the Photoelectrochemical Performance of Dye-Sensitized Solar Cells Based on SnO <sub>2</sub> Nanocomposite. Energies, 2016, 9, 641.	1.6	12

#	ARTICLE	IF	CITATIONS
6922	Systematic Assessment of Carbon Emissions from Renewable Energy Access to Improve Rural Livelihoods. <i>Energies</i> , 2016, 9, 1086.	1.6	14
6923	Controllable Electrochemical Synthesis of Reduced Graphene Oxide Thin-Film Constructed as Efficient Photoanode in Dye-Sensitized Solar Cells. <i>Materials</i> , 2016, 9, 69.	1.3	15
6924	Comparative Study of Two Different TiO <sub>2</sub> Film Sensors on Response to H <sub>2</sub> under UV Light and Room Temperature. <i>Sensors</i> , 2016, 16, 1249.	2.1	37
6925	Zinc Hydroxyfluoride (ZnOHF) Nanostructure as Photoelectrode of Quantum Dot-Sensitized Solar Cells. , 2016, , 199-210.		1
6926	Hydrogen Production by Photonic Energy. , 2016, , 309-391.		9
6927	Absorption and emission in defective cholesteric liquid crystal cells. <i>Laser Physics Letters</i> , 2016, 13, 046002.	0.6	12
6928	A Composite Photoanode Based on P25/TiO <sub>2</sub> Nanotube Arrays/Flower-Like TiO <sub>2</sub> for High-Efficiency Dye-Sensitized Solar Cells. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 840-847.	1.5	4
6929	Beneficial Effect of Electron-Withdrawing Groups on the Sensitizing Action of Squaraines for <i>p</i> -Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16340-16353.	1.5	48
6930	Solar-thermal conversion and thermal energy storage of graphene foam-based composites. <i>Nanoscale</i> , 2016, 8, 14600-14607.	2.8	179
6931	Core-Shell Silicon@Mesoporous TiO <sub>2</sub> Heterostructure: Towards Solar-Powered Photoelectrochemical Conversion. <i>ChemNanoMat</i> , 2016, 2, 647-651.	1.5	4
6932	Visible-Light-Driven Photoelectrochemical and Photocatalytic Performance of NaNbO <sub>3</sub> /Ag <sub>2</sub> S Core-Shell Heterostructures. <i>ChemSusChem</i> , 2016, 9, 1850-1858.	3.6	35
6933	Fabrication of Flexible Dye-Sensitized Solar Cell Modules using Commercially Available Materials. <i>Energy Technology</i> , 2016, 4, 536-542.	1.8	11
6934	Computational study of physisorption and chemisorption of polypyrrole on H-terminated (111) and (100) nanodiamond facets. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2672-2679.	0.8	7
6935	The Structure-property Relationships of D- $\pi$ -A BODIPY Dyes for Dye-sensitized Solar Cells. <i>Chemical Record</i> , 2016, 16, 719-733.	2.9	43
6936	Enhanced power conversion efficiency of dye-sensitized solar cells assisted with phosphor materials. <i>Electronic Materials Letters</i> , 2016, 12, 512-516.	1.0	3
6937	Synthesis and performance of Cu <sub>2</sub> ZnSnS <sub>4</sub> semiconductor as photocathode for solar water splitting. <i>Journal of Alloys and Compounds</i> , 2016, 688, 923-932.	2.8	38
6939	Water Splitting Progress in Tandem Devices: Moving Photolysis beyond Electrolysis. <i>Advanced Energy Materials</i> , 2016, 6, 1600602.	10.2	268
6940	Oxidation Reactions with Bioinspired Mononuclear Non-Heme Metal-Oxo Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7632-7649.	7.2	244



#	ARTICLE	IF	CITATIONS
6941	Electrochemically Prepared Poly(3,4-ethylenedioxythiophene)/Polypyrrole Films with Hollow Micro/Nanohorn Arrays as High-Efficiency Counter Electrodes for Dye-Sensitized Solar Cells. ChemElectroChem, 2016, 3, 1376-1383.	1.7	0
6943	Oxyhydroxide Nanosheets with Highly Efficient Electron-Hole Pair Separation for Hydrogen Evolution. Angewandte Chemie, 2016, 128, 2177-2181.	1.6	26
6944	A Semi-Conductive Copper-Organic Framework with Two Types of Photocatalytic Activity. Angewandte Chemie - International Edition, 2016, 55, 4938-4942.	7.2	164
6945	Singly versus Doubly Reduced Nickel Porphyrins for Proton Reduction: Experimental and Theoretical Evidence for a Homolytic Hydrogen-Evolution Reaction. Angewandte Chemie - International Edition, 2016, 55, 5457-5462.	7.2	148
6946	Mapping photovoltaic performance with nanoscale resolution. Progress in Photovoltaics: Research and Applications, 2016, 24, 315-325.	4.4	22
6947	Nanostructured Materials. , 2016, , 463-492.		0
6948	Enhanced photocurrent generation in bacteriorhodopsin based bio-sensitized solar cells using gel electrolyte. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 208-212.	1.7	36
6949	Highly effective Co <sub>3</sub> S <sub>4</sub> /electrospun-carbon-nanofibers composite counter electrode synthesized with electrospun technique for cobalt redox electrolyte based on dye-sensitized solar cells. Journal of Power Sources, 2016, 326, 6-13.	4.0	36
6950	Hematite homojunctions without foreign element doping for efficient and stable overall water splitting. RSC Advances, 2016, 6, 62263-62269.	1.7	14
6951	Effects of nanoscale morphology and defects in oxide: optoelectronic functions of zinc oxide nanowires. Radiation Effects and Defects in Solids, 2016, 171, 22-33.	0.4	9
6952	CuBr <sub>2</sub> -induced charge screening on photoactive nanocolloidal polypyrrole:poly(styrene sulfonate) composite multilayer thin-film counter electrodes for high-efficiency dye-sensitized solar cells. Polymer International, 2016, 65, 584-595.	1.6	1
6953	Near-Infrared Photocatalytic Upconversion Nanoparticles/TiO <sub>2</sub> Nanofibers Assembled in Large Scale by Electrospinning. Particle and Particle Systems Characterization, 2016, 33, 248-253.	1.2	98
6954	Critical difference between optoelectronic properties of In <sub>2</sub> S <sub>3</sub> and SnWO <sub>4</sub> semiconductors: A DFT/HSE06 and experimental investigation. Physica Status Solidi (B): Basic Research, 2016, 253, 1115-1119.	0.7	18
6955	Prospects of Graphene as a Potential Carrier-Transport Material in Third-Generation Solar Cells. Chemical Record, 2016, 16, 614-632.	2.9	14
6956	Metal-Free Sensitizers for Dye-Sensitized Solar Cells. Chemical Record, 2016, 16, 1311-1336.	2.9	60
6957	Ferrocenyl Dithiocarbamate Based d <sup>10</sup> Transition-Metal Complexes as Potential Co-Sensitizers in Dye-Sensitized Solar Cells. European Journal of Inorganic Chemistry, 2016, 2016, 1013-1021.	1.0	39
6958	Solar energy integration into advanced building design for meeting energy demand and environment problem. International Journal of Energy Research, 2016, 40, 1293-1300.	2.2	69
6959	Novel Heterostructure of CdSe Nanobridge on ZnO Nanorods: Cd-Carboxyl-RCOO-Assisted Synthesis and Enhanced Photoelectrochemical Efficiency. Advanced Materials Interfaces, 2016, 3, 1500737.	1.9	17

#	ARTICLE	IF	CITATIONS
6960	Independent control of phases and defects in TiO <sub>2</sub> thin films for functional transistor channels. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2196-2202.	0.8	14
6961	Preparation of Secondary Mesopores in Mesoporous Anataseâ€“Silica Nanocomposites with Unprecedentedâ€“High Photocatalytic Degradation Performances. <i>Advanced Functional Materials</i> , 2016, 26, 964-976.	7.8	31
6962	Delocalized Electron Accumulation at Nanorod Tips: Origin of Efficient H <sub>2</sub> Generation. <i>Advanced Functional Materials</i> , 2016, 26, 4527-4534.	7.8	60
6963	Photoinduced Absorption Spectroscopy of CoPi on BiVO <sub>4</sub> : The Function of CoPi during Water Oxidation. <i>Advanced Functional Materials</i> , 2016, 26, 4951-4960.	7.8	169
6964	Strongly Enhanced Water Splitting Performance of Ta <sub>3</sub> N <sub>5</sub> Nanotube Photoanodes with Subnitrides. <i>Advanced Materials</i> , 2016, 28, 2432-2438.	11.1	106
6965	Stable Hematite Nanosheet Photoanodes for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2016, 28, 6405-6410.	11.1	275
6966	Progress in Black Titania: A New Material for Advanced Photocatalysis. <i>Advanced Energy Materials</i> , 2016, 6, 1600452.	10.2	251
6967	Singly versus Doubly Reduced Nickel Porphyrins for Proton Reduction: Experimental and Theoretical Evidence for a Homolytic Hydrogenâ€“Evolution Reaction. <i>Angewandte Chemie</i> , 2016, 128, 5547-5552.	1.6	30
6968	Oxyhydroxide Nanosheets with Highly Efficient Electronâ€“Hole Pair Separation for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2137-2141.	7.2	99
6969	A brief review of co-doping. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	98
6970	Hexagonal FeS nanosheets with high-energy (001) facets: Counter electrode materials superior to platinum for dye-sensitized solar cells. <i>Nano Research</i> , 2016, 9, 2862-2874.	5.8	38
6971	Enhancing the photoelectrochemical properties of titanium dioxide by thermal treatment in oxygen deficient environment. <i>Applied Surface Science</i> , 2016, 372, 63-69.	3.1	29
6972	Elucidating the Impact of Cobalt Doping on the Lithium Storage Mechanism in Conversion/Alloyingâ€“Type Zinc Oxide Anodes. <i>ChemElectroChem</i> , 2016, 3, 1311-1319.	1.7	34
6973	Oxidationsreaktionen mit bioinspirierten einkernigen Nichtâ€“Oxidometallkomplexen. <i>Angewandte Chemie</i> , 2016, 128, 7760-7778.	1.6	48
6974	BiVO <sub>4</sub> â€“TiO <sub>2</sub> Composite Photocatalysts for Dye Degradation Formed Using the SILAR Method. <i>ChemPhysChem</i> , 2016, 17, 2872-2880.	1.0	39
6975	Homogeneous Photocatalytic H <sub>2</sub> Production Using a Ru <sup>II</sup> Bathophenanthroline Metalâ€“Ligand Chargeâ€“Transfer Photosensitizer. <i>ChemPlusChem</i> , 2016, 81, 1090-1097.	1.3	20
6976	High efficiency, Pt-free photoelectrochemical cells for solar hydrogen generation based on â€“giantâ€“ quantum dots. <i>Nano Energy</i> , 2016, 27, 265-274.	8.2	103
6977	Effect of Size and Structure on the Ground-State and Excited-State Electronic Structure of TiO <sub>2</sub> Nanoparticles. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3751-3763.	2.3	53

#	ARTICLE	IF	CITATIONS
6978	First-principles study of photovoltaics and carrier mobility for non-toxic halide perovskite $\text{CH}_3\text{NH}_3\text{SnCl}_3$ : theoretical prediction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22188-22195.	1.3	53
6979	$\text{TiO}_2$ /graphene/NiFe-layered double hydroxide nanorod array photoanodes for efficient photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2016, 9, 2633-2643.	15.6	442
6980	Electrophoretic separation and deposition of metal-graphene nanocomposites and their application as electrodes in solar cells. <i>RSC Advances</i> , 2016, 6, 64097-64109.	1.7	9
6981	The goldilocks electrolyte: examining the performance of iron/nickel oxide thin films as catalysts for electrochemical water splitting in various aqueous NaOH solutions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11397-11407.	5.2	47
6982	Visible-Light-Driven Water Oxidation on a Photoanode by Supramolecular Assembly of Photosensitizer and Catalyst. <i>ChemPlusChem</i> , 2016, 81, 1056-1059.	1.3	28
6983	Heteroleptic Ruthenium Sensitizers with Hydrophobic Fused-Thiophenes for Use in Efficient Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1214-1224.	1.0	20
6984	Optical and Electrochemical Properties of Anthraquinone Imine Based Dyes for Dye-Sensitized Solar Cells. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 756-767.	1.2	8
6985	Photoreduction Synthesis of Hierarchical Hematite/Silver Nanostructures for Photoelectrochemical Water Splitting. <i>Energy Technology</i> , 2016, 4, 271-277.	1.8	10
6986	Quasi-Solid-State Dye-Sensitized Solar Cells Based on Ru(II) Polypyridine Sensitizers. <i>Energy Technology</i> , 2016, 4, 380-384.	1.8	4
6987	Surface Rutilization of Anatase $\text{TiO}_2$ Nanorods for Creation of Synergistically Bridging and Fencing Electron Highways. <i>Advanced Functional Materials</i> , 2016, 26, 456-465.	7.8	52
6988	Efficiency and Stability Enhancement in Perovskite Solar Cells by Inserting Lithium-Neutralized Graphene Oxide as Electron Transporting Layer. <i>Advanced Functional Materials</i> , 2016, 26, 2686-2694.	7.8	180
6989	Capacitance Enhancement in a Semiconductor Nanostructure-Based Supercapacitor by Solar Light and a Self-Powered Supercapacitor-Photodetector System. <i>Advanced Functional Materials</i> , 2016, 26, 4481-4490.	7.8	133
6990	Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 4935-4942.	11.1	95
6991	A Semi-Conductive Copper-Organic Framework with Two Types of Photocatalytic Activity. <i>Angewandte Chemie</i> , 2016, 128, 5022-5026.	1.6	19
6992	Curing $\text{BiVO}_4$ Photoanodes with Ultraviolet Light Enhances Photoelectrocatalysis. <i>Angewandte Chemie</i> , 2016, 128, 1801-1804.	1.6	94
6993	Selenium-Enriched Nickel Selenide Nanosheets as a Robust Electrocatalyst for Hydrogen Generation. <i>Angewandte Chemie</i> , 2016, 128, 7033-7038.	1.6	65
6994	Excellent photocatalytic performance of cobalt-doped titanium dioxide nanotubes under ultraviolet light. <i>Nanomaterials and Nanotechnology</i> , 2016, 6, 184798041668080.	1.2	5
6995	Methods, Mechanism, and Applications of Photodeposition in Photocatalysis: A Review. <i>Chemical Reviews</i> , 2016, 116, 14587-14619.	23.0	731

#	ARTICLE	IF	CITATIONS
6996	Preparation of the TiO <sub>2</sub> /Graphitic Carbon Nitride Core-Shell Array as a Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2016, 32, 13322-13332.	1.6	76
6997	Understanding Physico-Chemical Aspects in the Depth Profiling of Polymer:Fullerene Layers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28074-28082.	1.5	6
6998	A Dye-Sensitized Photoelectrochemical Tandem Cell for Light Driven Hydrogen Production from Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 16745-16753.	6.6	100
6999	Tomás Torres™ research in a nutshell. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 966-986.	0.4	5
7000	Fabrication and Characterization of TiO <sub>2</sub> Nanorod Array Based Visible-Blind Ultraviolet Photodetector by Hydrothermal Process. <i>Materials Transactions</i> , 2016, 57, 703-708.	0.4	7
7001	Magnetic field induced motion behavior of gas bubbles in liquid. <i>Scientific Reports</i> , 2016, 6, 21068.	1.6	14
7002	Photoelectrochemical performance of CuO electrodes by surface modification with ZnO in water splitting process. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
7003	Ultrafast photoelectron migration in dye-sensitized solar cells: Influence of the binding mode and many-body interactions. <i>Journal of Chemical Physics</i> , 2016, 145, 174704.	1.2	19
7004	Photo-detector diode based on thermally oxidized TiO <sub>2</sub> nanostructures/p-Si heterojunction. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	40
7005	Phase behavior of decorated soft disks in two dimensions. <i>Journal of Chemical Physics</i> , 2016, 145, 224703.	1.2	8
7006	Porous (001)-faceted anatase TiO <sub>2</sub> nanorice thin film for efficient dye-sensitized solar cell. <i>EPJ Photovoltaics</i> , 2016, 7, 70501.	0.8	15
7007	Synthesis of TiO <sub>2</sub> nanorods from titania and titanyl sulfate produced from ilmenite dissolution by hydrothermal method. <i>Journal of Physics: Conference Series</i> , 2016, 776, 012044.	0.3	10
7008	Theoretical and photo-electrochemical studies of surface plasmon induced visible light absorption of Ag loaded TiO <sub>2</sub> nanotubes for water splitting. <i>Applied Physics Letters</i> , 2016, 109, 153903.	1.5	8
7009	Orientation Sensitivity of Oxygen Evolution Reaction on Hematite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28694-28700.	1.5	42
7010	Enhanced photocatalytic activity of SrTiO <sub>3</sub> photocatalyst by topotactic preparation. <i>Materials Research Express</i> , 2016, 3, 115903.	0.8	8
7011	Electrical detection of magnetization dynamics via spin rectification effects. <i>Physics Reports</i> , 2016, 661, 1-59.	10.3	159
7012	Modeling of molecular photocells: Application to two-level photovoltaic system with electron-hole interaction. <i>Journal of Chemical Physics</i> , 2016, 145, 124116.	1.2	13
7013	A high-response ethanol gas sensor based on one-dimensional TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> branched nanoheterostructures. <i>Nanotechnology</i> , 2016, 27, 425503.	1.3	55

#	ARTICLE	IF	CITATIONS
7014	Device engineering towards improved tin sulfide solar cell performance and performance reproducibility. , 2016, , .		1
7015	Iron Pyrite/Titanium Dioxide Photoanode for Extended Near Infrared Light Harvesting in a Photoelectrochemical Cell. Scientific Reports, 2016, 6, 20397.	1.6	27
7016	Modulating the band gap of a boron nitride bilayer with an external electric field for photocatalyst. Journal of Applied Physics, 2016, 119, .	1.1	19
7017	Enhanced DSSCs efficiency via Cooperate co-absorbance (CdS QDs) and plasmonic core-shell nanoparticle (Ag@PVP). Scientific Reports, 2016, 6, 25227.	1.6	32
7018	A DFT study of water adsorption on rutile TiO <sub>2</sub> (110) surface: The effects of surface steps. Journal of Chemical Physics, 2016, 145, 044702.	1.2	43
7020	Direct contact four-point probe characterization of Si microwire absorbers for artificial photosynthesis. RSC Advances, 2016, 6, 110344-110348.	1.7	2
7021	Enhanced photoelectrochemical and photocatalytic activity in visible-light-driven Ag/BiVO <sub>4</sub> inverse opals. Applied Physics Letters, 2016, 108, .	1.5	30
7022	Performance Modeling of Mimosa pudica Extract as a Sensitizer for Solar Energy Conversion. Energy and Policy Research, 2016, 3, 42-49.	0.8	7
7023	Pulsed cathodoluminescence and Raman spectra of MoS <sub>2</sub> and WS <sub>2</sub> nanocrystals and their combination MoS <sub>2</sub> /WS <sub>2</sub> produced by self-propagating high-temperature synthesis. Applied Physics Letters, 2016, 108, .	1.5	16
7024	Optical properties of natural dyes on the dye-sensitized solar cells (DSSC) performance. Journal of Physics: Conference Series, 2016, 776, 012007.	0.3	14
7025	Electron Injection from a CdS Quantum Dot to a TiO <sub>2</sub> >2</sub>; Conduction Band as an Efficiency Limiting Process: Comparison of QD Depositions between SILAR and Linker Assisted Attachment. Journal of Photopolymer Science and Technology = [Fotopolimer Bilim ve Teknoloji], 2016, 29, 357-362.	0.1	4
7026	The role of photo-electric properties of silk cocoon membrane in pupal metamorphosis: A natural solar cell. Scientific Reports, 2016, 6, 21915.	1.6	11
7027	Enhanced photoelectrochemical activity by nanostructured V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> bilayer. AIP Conference Proceedings, 2016, , .	0.3	1
7028	A nanosecond pulsed laser heating system for studying liquid and supercooled liquid films in ultrahigh vacuum. Journal of Chemical Physics, 2016, 144, 164201.	1.2	11
7029	Enhanced Visible Light Adsorption of Heavily Nitrogen Doped CeO <sub>2</sub> Thin Film via Ion Beam Assisted Deposition. Rare Metal Materials and Engineering, 2016, 45, 1988-1991.	0.8	5
7030	Determination of the electronic, dielectric, and optical properties of sillenite Bi <sub>12</sub> TiO <sub>20</sub> and perovskite-like Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> materials from hybrid first-principle calculations. Journal of Chemical Physics, 2016, 144, 134702.	1.2	45
7031	Yttrium doped TiO <sub>2</sub> porous film photoanode for dye-sensitized solar cells with enhanced photovoltaic performance. Results in Physics, 2016, 6, 1051-1058.	2.0	29
7032	Gas phase vibrational spectroscopy of cold (TiO <sub>2</sub> ) <sup>n+</sup> (<i>n</i> = 3â€“8) clusters. Journal of Chemical Physics, 2016, 144, 124308.	1.2	16

#	ARTICLE	IF	CITATIONS
7033	Enhanced visible photoelectrochemical properties of ZnO/CdS core/shell nanorods and their correlation with improved optical properties. <i>Applied Physics Letters</i> , 2016, 109, 203106.	1.5	15
7034	Ni/TiO <sub>2</sub> Ultraviolet Detector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 108, 012031.	0.3	7
7035	Elucidating the Sole Contribution from Electromagnetic Near-Fields in Plasmon-Enhanced Cu <sub>2</sub> O Photocathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1501250.	10.2	31
7036	Enhanced photo-catalytic activity of the composite of TiO <sub>2</sub> and conjugated derivative of polyvinyl alcohol immobilized on cordierite under visible light irradiation. <i>Journal of Energy Chemistry</i> , 2016, 25, 55-61.	7.1	10
7037	Tunable synthesis of various ZnO architectural structures with enhanced photocatalytic activities. <i>Materials Letters</i> , 2016, 175, 68-71.	1.3	23
7038	CdIn <sub>2</sub> S <sub>4</sub> quantum dots: novel solvent-free synthesis, characterization and enhancement of dye-sensitized solar cells performance. <i>RSC Advances</i> , 2016, 6, 39801-39809.	1.7	29
7039	Optimization of Selective Electrophoretic Deposition and Isostatic Compression of Titania Nanoparticles for Flexible Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016, 196, 535-546.	2.6	6
7040	Oxygen Vacancies Engineering of Iron Oxides Films for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7482-7490.	1.5	100
7041	Comparison of heterogenized molecular and heterogeneous oxide catalysts for photoelectrochemical water oxidation. <i>Energy and Environmental Science</i> , 2016, 9, 1794-1802.	15.6	136
7042	A tandem dye-sensitized photoelectrochemical cell for light driven hydrogen production. <i>Energy and Environmental Science</i> , 2016, 9, 1812-1817.	15.6	51
7043	Epitaxial Anatase TiO <sub>2</sub> Nanorods Array with Reduced Interfacial Charge Recombination for Solar Water Splitting. <i>Journal of the Electrochemical Society</i> , 2016, 163, H469-H473.	1.3	7
7044	High Solar Flux Concentration Water Splitting with Hematite (Fe <sub>2</sub> O <sub>3</sub> ) Photoanodes. <i>Advanced Energy Materials</i> , 2016, 6, 1500817.	10.2	72
7045	Synthesis and Characterization of Phenothiazine-Based Platinum(II)-Acetylide Photosensitizers for Efficient Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2016, 22, 3750-3757.	1.7	27
7046	Synthesis and electrophoretic deposition of hollow-TiO <sub>2</sub> nanoparticles for dye sensitized solar cell applications. <i>Journal of Alloys and Compounds</i> , 2016, 672, 212-222.	2.8	20
7047	Effects of carboxylic acid and phosphonic acid anchoring groups on the efficiency of dye sensitized solar cells: A computational study. <i>Organic Electronics</i> , 2016, 33, 207-212.	1.4	27
7048	Chitosan-sodium alginate encapsulated Co-doped ZrO <sub>2</sub> -MWCNTs nanocomposites for photocatalytic decolorization of organic dyes. <i>Research on Chemical Intermediates</i> , 2016, 42, 7231-7245.	1.3	13
7049	A Bi-layer Composite Film Based on TiO <sub>2</sub> Hollow Spheres, P25, and Multi-walled Carbon Nanotubes for Efficient Photoanode of Dye-sensitized Solar Cell. <i>Nano-Micro Letters</i> , 2016, 8, 232-239.	14.4	24
7050	Application of picene thin-film semiconductor as a photocatalyst for photocatalytic hydrogen formation from water. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 88-92.	10.8	12

#	ARTICLE	IF	CITATIONS
7051	Using carbon nanotubes-gold nanocomposites to quench energy from pinnate titanium dioxide nanorods array for signal-on photoelectrochemical aptasensing. <i>Biosensors and Bioelectronics</i> , 2016, 82, 132-139.	5.3	17
7052	Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells. <i>Organic Electronics</i> , 2016, 33, 274-280.	1.4	35
7053	Synthesis and Electrochemical and Photophysical Characterization of New 4,4'-Conjugated 2,2'-Bipyridines that are End-Capped with Cyanoacrylic Acid/Ester Groups. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1232-1239.	1.7	2
7054	Photocatalytic H <sub>2</sub> Generation Using Dewetted Pt-Decorated TiO <sub>2</sub> Nanotubes: Optimized Dewetting and Oxide Crystallization by a Multiple Annealing Process. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15884-15892.	1.5	43
7055	Human Interactive Triboelectric Nanogenerator as a Self-Powered Smart Seat. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9692-9699.	4.0	61
7056	Transparent conductive CuCrO <sub>2</sub> thin films deposited by pulsed injection metal organic chemical vapor deposition: up-scalable process technology for an improved transparency/conductivity trade-off. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4278-4287.	2.7	63
7057	Enhanced sunlight harvesting of dye-sensitized solar cells through the insertion of a (Sr, Ba, Eu) 2 SiO 4 -TiO 2 composite layer. <i>Materials Research Bulletin</i> , 2016, 83, 19-23.	2.7	8
7058	Versatile copper complexes as a convenient springboard for both dyes and redox mediators in dye sensitized solar cells. <i>Coordination Chemistry Reviews</i> , 2016, 322, 69-93.	9.5	76
7059	Advancing the Chemistry of CuWO <sub>4</sub> for Photoelectrochemical Water Oxidation. <i>Accounts of Chemical Research</i> , 2016, 49, 1121-1129.	7.6	120
7060	Bulky crystalline BiVO <sub>4</sub> thin films for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9858-9864.	5.2	40
7061	Visible light activity of pulsed layer deposited BiVO <sub>4</sub> /MnO <sub>2</sub> films decorated with gold nanoparticles: The evidence for hydroxyl radicals formation. <i>Applied Surface Science</i> , 2016, 385, 199-208.	3.1	62
7062	Hybrid density functional studies of C-anion-doped anatase TiO <sub>2</sub> . <i>Chemical Physics Letters</i> , 2016, 650, 19-28.	1.2	11
7063	Atomic layer deposition assisted sacrificial template synthesis of mesoporous TiO <sub>2</sub> electrode for high performance lithium ion battery anodes. <i>Energy Storage Materials</i> , 2016, 2, 27-34.	9.5	29
7064	Thin film transfer for the fabrication of tantalum nitride photoelectrodes with controllable layered structures for water splitting. <i>Chemical Science</i> , 2016, 7, 5821-5826.	3.7	26
7065	Principles of Photo-Electrochemical Cells. <i>Springer Theses</i> , 2016, , 47-92.	0.0	0
7066	Novel CoS <sub>2</sub> embedded carbon nanocages by direct sulfurizing metal-organic frameworks for dye-sensitized solar cells. <i>Nanoscale</i> , 2016, 8, 11984-11992.	2.8	163
7067	A Rational Design of Heterojunction Photocatalyst CdS Interfacing with One Cycle of ALD Oxide. <i>Journal of Materials Science and Technology</i> , 2016, 32, 489-495.	5.6	9
7068	Unique three dimensional architecture using a metal-free semiconductor cross-linked bismuth vanadate for efficient photoelectrochemical water oxidation. <i>Nano Energy</i> , 2016, 24, 148-157.	8.2	44

#	ARTICLE	IF	CITATIONS
7069	Efficiency improvement of new Tetrathienoacene-based dyes by enhancing donor, acceptor and bridge units, a theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 167, 72-77.	2.0	2
7070	Enhanced Photo-Electrochemical Performance of Reduced Graphene-Oxide Wrapped TiO <sub>2</sub> Multi-Leg Nanotubes. <i>Journal of the Electrochemical Society</i> , 2016, 163, H652-H656.	1.3	15
7071	Nanoscale Engineering in the Development of Photoelectrocatalytic Cells for Producing Solar Fuels. <i>Topics in Catalysis</i> , 2016, 59, 757-771.	1.3	24
7072	Highly efficient panchromatic dye-sensitized solar cells: Synergistic interaction of ruthenium sensitizer with novel co-sensitizers carrying different acceptor units. <i>Dyes and Pigments</i> , 2016, 132, 316-328.	2.0	28
7073	Highly active and durable self-standing WS <sub>2</sub> /graphene hybrid catalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9472-9476.	5.2	75
7074	A Study of the Efficiency Enhancement of the Gel Electrolyte-based SnO <sub>2</sub> Dye-sensitized Solar Cells Through the Use of Thin Insulating Layers. <i>Electrochimica Acta</i> , 2016, 210, 138-146.	2.6	9
7075	Surface Modification or Doping of WO <sub>3</sub> for Enhancing the Photocatalytic Degradation of Organic Pollutant Containing Wastewaters: A Review. <i>Materials Science Forum</i> , 0, 855, 105-126.	0.3	14
7076	Optical Absorption Spectra and Excitons of Dye-Substrate Interfaces: Catechol on TiO <sub>2</sub> (110). <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2843-2852.	2.3	31
7077	High-Efficiency Selective Electron Tunnelling in a Heterostructure Photovoltaic Diode. <i>Nano Letters</i> , 2016, 16, 3600-3606.	4.5	14
7078	Photonic nanostructures for solar energy conversion. <i>Energy and Environmental Science</i> , 2016, 9, 2511-2532.	15.6	139
7079	Synthesis and characterization of metallo-supramolecular polymers. <i>Chemical Society Reviews</i> , 2016, 45, 5311-5357.	18.7	332
7080	Photolithographically Patterned TiO <sub>2</sub> Films for Electrolyte-Gated Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14855-14862.	4.0	15
7081	Optical and electronic loss analysis of mesoporous solar cells. <i>Semiconductor Science and Technology</i> , 2016, 31, 073001.	1.0	6
7082	Fundamentals of the Quantum Confinement Effect. , 2016, , 291-318.		3
7083	Novel Y doped BiVO <sub>4</sub> thin film electrodes for enhanced photoelectric and photocatalytic performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 327, 25-32.	2.0	23
7084	Synthesis of multi-donor dyes and influence of molecular design on dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 51807-51815.	1.7	3
7085	Fabrication and characterization of nanostructured Mg-doped CdS/AAO nanoporous membrane for sensing applications. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
7086	Beyond Vibrationally Mediated Electron Transfer: Coherent Phenomena Induced by Ultrafast Charge Separation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8534-8539.	1.5	14



#	ARTICLE	IF	CITATIONS
7087	Excited Electron Dynamics at Semiconductorâ€‘Molecule Type-II Heterojunction Interface: First-Principles Dynamics Simulation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1495-1500.	2.1	17
7088	Synthesis of Fe/ZnO composite nanocatalyst and its sonophotocatalytic activity on acid yellow 23 dye and real textile effluent. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1889-1903.	2.1	15
7089	Controlled fabrication of Ag/TiO <sub>2</sub> nanofibers with enhanced stability of photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5190-5196.	1.1	15
7090	Studies on Structural, Morphological and Optical Properties of Chemically Deposited CdS <sub>1-x</sub> Se <sub>x</sub> Thin Films. <i>Journal of Fluorescence</i> , 2016, 26, 459-469.	1.3	10
7091	Functionalized multi-wall carbon nanotubes/TiO <sub>2</sub> composites as efficient photoanodes for dye sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3555-3562.	2.7	68
7092	Nanocatalysts for Solar Water Splitting and a Perspective on Hydrogen Economy. <i>Chemistry - an Asian Journal</i> , 2016, 11, 22-42.	1.7	74
7093	The effect of simulated concrete pore solution composition and chlorides on the electronic properties of passive films on carbon steel rebar. <i>Corrosion Science</i> , 2016, 106, 82-95.	3.0	171
7094	Enhanced photoelectrochemical performance of electrodeposited hematite films decorated with nanostructured NiMnO <sub>x</sub> . <i>RSC Advances</i> , 2016, 6, 35239-35247.	1.7	34
7095	Inkjet-printed graphene electrodes for dye-sensitized solar cells. <i>Carbon</i> , 2016, 105, 33-41.	5.4	94
7096	Dye-sensitized solar cells, based on electrochemically functionalized porphyrins. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 1357-1365.	1.2	6
7097	Synthesis of mesoporous TiO <sub>2</sub> and its role as a photocatalyst in degradation of indigo carmine dye. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 79, 228-237.	1.1	18
7098	Dye regeneration mechanisms of dye sensitized solar cells: Quantum chemical studies on the interaction between iodide and O/S-containing organic dyes. <i>Dyes and Pigments</i> , 2016, 132, 136-141.	2.0	11
7099	The study of carrier transfer mechanism for nanostructural hematite photoanode for solar water splitting. <i>Applied Energy</i> , 2016, 164, 924-933.	5.1	28
7100	Nitrogen and sulfur co-doped graphene/carbon nanotube as metal-free electrocatalyst for oxygen evolution reaction: the enhanced performance by sulfur doping. <i>Electrochimica Acta</i> , 2016, 204, 169-175.	2.6	93
7101	Photocatalytic concretes â€‘ The interface between photocatalysis and cement chemistry. <i>Cement and Concrete Research</i> , 2016, 85, 48-54.	4.6	83
7102	Molecular engineering of largely Î€-extended metal-free sensitizers containing benzothiadiazole units: Approaching 10% efficiency dye-sensitized solar cells using iodine-based electrolytes. <i>Dyes and Pigments</i> , 2016, 131, 282-292.	2.0	12
7103	PAMAM-grafted TiO <sub>2</sub> nanotubes as novel versatile materials for drug delivery applications. <i>Materials Science and Engineering C</i> , 2016, 65, 164-171.	3.8	38
7104	P-Type Cu-Doped Zn <sub>0.3</sub> Cd <sub>0.7</sub> S/Graphene Photocathode for Efficient Water Splitting in a Photoelectrochemical Tandem Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2569-2577.	3.2	41

#	ARTICLE	IF	CITATIONS
7105	Active methylenes in the synthesis of a pyrrole motif: an imperative structural unit of pharmaceuticals, natural products and optoelectronic materials. <i>RSC Advances</i> , 2016, 6, 37039-37066.	1.7	106
7106	Gold/WO <sub>3</sub> nanocomposite photoanodes for plasmonic solar water splitting. <i>Nano Research</i> , 2016, 9, 1735-1751.	5.8	83
7107	Electrochemical preparation of crystalline $\beta$ -CuI thin films through potential-controlled anodization of copper and its photoelectrochemical investigations. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2093-2102.	1.2	3
7108	Synthesis of porphyrin sensitizers with a thiazole group as an efficient $\pi$ -spacer: potential application in dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 41294-41303.	1.7	11
7109	Highly efficient photoelectrochemical water splitting by a novel nanocomposite titania photoanode. <i>Materials Research Innovations</i> , 2016, 20, 317-325.	1.0	12
7110	An affordable green energy source—Evolving through current developments of organic, dye sensitized, and perovskite solar cells. <i>International Journal of Green Energy</i> , 2016, 13, 859-906.	2.1	4
7111	Photoelectron Spectra of Aqueous Solutions from First Principles. <i>Journal of the American Chemical Society</i> , 2016, 138, 6912-6915.	6.6	64
7112	Electrochemistry of N <sub>4</sub> Macrocyclic Metal Complexes. , 2016, , .		32
7113	Morphology control studies of TiO <sub>2</sub> microstructures via surfactant-assisted hydrothermal process for dye-sensitized solar cell applications. <i>Applied Surface Science</i> , 2016, 382, 15-26.	3.1	38
7114	Novel Excitonic Solar Cells in Phosphorene/TiO <sub>2</sub> Heterostructures with Extraordinary Charge Separation Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1880-1887.	2.1	51
7115	Effect of structural defects towards the performance of TiO <sub>2</sub> /SnO <sub>2</sub> /WO <sub>3</sub> photocatalyst in the degradation of 1,2-dichlorobenzene. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 64, 106-115.	2.7	24
7116	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO <sub>2</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 12239-12245.	4.0	147
7117	Zr-Doped $\beta$ -In <sub>2</sub> S <sub>3</sub> Ultrathin Nanoflakes as Photoanodes: Enhanced Visible-Light-Driven Photoelectrochemical Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2606-2614.	3.2	95
7118	A Comparative Investigation of Dye-Sensitized Titanium Dioxide (TiO <sub>2</sub> ) Nanorods Grown on Indium Tin Oxide (ITO) Substrates by Direct and Seed-Mediated Hydrothermal Methods. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 457-463.	1.5	17
7119	Unravelling the effect of anchoring groups on the ground and excited state properties of pyrene using computational and spectroscopic methods. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13332-13345.	1.3	41
7120	NiS/Cc composite electrocatalyst as efficient Pt-free counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 205, 15-19.	2.6	16
7121	Dispersive Electron-Transfer Kinetics of Rhodamines on TiO <sub>2</sub> : Impact of Structure and Driving Force on Single-Molecule Photophysics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20710-20720.	1.5	12
7122	Photoelectrochemical Solar Fuel Production. , 2016, , .		87

#	ARTICLE	IF	CITATIONS
7123	Reactivity of Proton Sources with a Nickel Hydride Complex in Acetonitrile: Implications for the Study of Fuel-Forming Catalysts. <i>Inorganic Chemistry</i> , 2016, 55, 5079-5087.	1.9	40
7124	Solar Hydrogen Production Using Molecular Catalysts Immobilized on Gallium Phosphide (111)A and (111)B Polymer-Modified Photocathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10038-10047.	4.0	50
7125	TiO <sub>2</sub> nanoparticles optimized for photoanodes tested in large area Dye-sensitized solar cells (DSSC). <i>Solar Energy Materials and Solar Cells</i> , 2016, 153, 108-116.	3.0	77
7126	Oxide bipolar electronics: materials, devices and circuits. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 213001.	1.3	83
7127	Improving the performance of quantum dot sensitized solar cells through CdNiS quantum dots with reduced recombination and enhanced electron lifetime. <i>Dalton Transactions</i> , 2016, 45, 8447-8457.	1.6	44
7128	Engineering Interfacial Silicon Dioxide for Improved Metal-Insulator-Semiconductor Silicon Photoanode Water Splitting Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13140-13149.	4.0	28
7129	All-in-one energy harvesting and storage devices. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7983-7999.	5.2	245
7130	Locating structures and evolution pathways of reconstructed rutile TiO <sub>2</sub> (011) using genetic algorithm aided density functional theory calculations. <i>Journal of Molecular Modeling</i> , 2016, 22, 114.	0.8	2
7131	Supported binary hybrid nanomaterials and their applications. <i>Coordination Chemistry Reviews</i> , 2016, 320-321, 82-99.	9.5	4
7132	Triphenylamine-based tri-anchoring organic dye with enhanced electron lifetime and long-term stability for dye sensitized solar cells. <i>Synthetic Metals</i> , 2016, 217, 248-255.	2.1	19
7133	Template-assisted self-assembly of diblock copolymer micelles for non-hexagonal arrays of Au nanoparticles. <i>RSC Advances</i> , 2016, 6, 41331-41339.	1.7	7
7134	Functionalization of nanocrystalline diamond films with phthalocyanines. <i>Applied Surface Science</i> , 2016, 379, 415-423.	3.1	3
7135	Thermoelectric-photoelectric composite nanocables induced a larger efficiency in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9362-9369.	5.2	23
7136	Nanocomposites of Bi <sub>5</sub> FeTi <sub>3</sub> O <sub>15</sub> with MoS <sub>2</sub> as novel Pt-free counter electrode in dye-sensitized solar cells. <i>Ceramics International</i> , 2016, 42, 12888-12893.	2.3	31
7137	Molecular level insight on the adsorption of carboxylic acids to oxide nanoparticles in aqueous solution by X-ray photoelectron spectroscopy. <i>Chemical Communications</i> , 2016, 52, 9040-9043.	2.2	7
7138	Facile synthesis of fluorene-based hole transport materials for highly efficient perovskite solar cells and solid-state dye-sensitized solar cells. <i>Nano Energy</i> , 2016, 26, 108-113.	8.2	103
7139	Mesoporous TiO <sub>2</sub> nanosheet with a large amount of exposed {001} facets as sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2161-2168.	1.2	21
7140	Enhancing Activity and Stability of Cobalt Oxide Electrocatalysts for the Oxygen Evolution Reaction via Transition Metal Doping. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3020-F3028.	1.3	55

#	ARTICLE	IF	CITATIONS
7141	3D TiO <sub>2</sub> /ZnO composite nanospheres as an excellent electron transport anode for efficient dye-sensitized solar cells. RSC Advances, 2016, 6, 51320-51326.	1.7	11
7142	The photocathodic behavior of hierarchical ZnO/hematite hetero nanoarchitectures. Journal of Materials Research, 2016, 31, 1554-1564.	1.2	5
7143	Nanoscale Photo-Absorbing Kesterite Grown on Anatase Mesoscopic Films by Sequential Binary Chalcogenide Solution Deposition-Exchange, Annealing, and Etching. Crystal Growth and Design, 2016, 16, 3618-3630.	1.4	9
7144	Thermal performance enhancement of flat-plate and evacuated tube solar collectors using nanofluid: A review. International Communications in Heat and Mass Transfer, 2016, 76, 6-15.	2.9	91
7145	The influence of in situ deposition techniques on PbS seeded CdS/CdSe for enhancing the photovoltaic performance of quantum dot sensitized solar cells. Journal of Electroanalytical Chemistry, 2016, 773, 27-38.	1.9	13
7146	Iron oxide surfaces. Surface Science Reports, 2016, 71, 272-365.	3.8	447
7147	Solar-Driven Water Oxidation and Decoupled Hydrogen Production Mediated by an Electron-Coupled-Proton Buffer. Journal of the American Chemical Society, 2016, 138, 6707-6710.	6.6	95
7148	Clickable azide-functionalized phosphonates for the surface-modification of molecular and solid-state metal oxides. Dalton Transactions, 2016, 45, 16121-16124.	1.6	13
7149	Heterogeneous photocatalytic organic synthesis: state-of-the-art and future perspectives. Green Chemistry, 2016, 18, 5391-5411.	4.6	336
7150	TiO <sub>2</sub> cement for high-performance dye-sensitized solar cells. RSC Advances, 2016, 6, 83802-83807.	1.7	3
7151	Conformally coated BiVO <sub>4</sub> nanodots on porosity-controlled WO <sub>3</sub> nanorods as highly efficient type II heterojunction photoanodes for water oxidation. Nano Energy, 2016, 28, 250-260.	8.2	158
7152	Ordered gyroidal tantalum oxide photocatalysts: eliminating diffusion limitations and tuning surface barriers. Nanoscale, 2016, 8, 16694-16701.	2.8	27
7153	Heterostructured TiO <sub>2</sub> /MgO nanowire arrays for self-powered UV photodetectors. RSC Advances, 2016, 6, 85951-85957.	1.7	12
7154	MoS <sub>2</sub> as a cocatalyst for photocatalytic hydrogen production from water. Energy Science and Engineering, 2016, 4, 285-304.	1.9	205
7155	Amorphous TiO <sub>2</sub> Compact Layers via ALD for Planar Halide Perovskite Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 24310-24314.	4.0	61
7156	A Detailed Review On Fabrication And Characterization Of The Metal Nano-sized Branched Structures. , 2016, , 277-296.		0
7157	Fast and Simple Construction of Efficient Solar Water-Splitting Electrodes with Micrometer-Sized Light-Absorbing Precursor Particles. Advanced Materials Technologies, 2016, 1, 1600119.	3.0	16
7158	Studies on the Interfacial Electric Field and Stark Effect at the TiO <sub>2</sub> /Dye/Electrolyte Interface. Journal of Physical Chemistry C, 2016, 120, 22215-22224.	1.5	9

#	ARTICLE	IF	CITATIONS
7159	DFT + U investigation on the adsorption and initial decomposition of methylamine by a Pt single-atom catalyst supported on rutile (110) TiO <sub>2</sub> . Applied Surface Science, 2016, 389, 411-418.	3.1	14
7160	The environment effect on the electrical conductivity and photoconductivity of anatase TiO <sub>2</sub> nanoplates with silver nanoparticles photodeposited on {101} crystal facets. Materials Science in Semiconductor Processing, 2016, 56, 386-393.	1.9	5
7161	Synthesis and Stabilization of Blue-Black TiO <sub>2</sub> Nanotube Arrays for Electrochemical Oxidant Generation and Wastewater Treatment. Environmental Science & Technology, 2016, 50, 11888-11894.	4.6	195
7162	Highly Twisted Dye-Anchoring Sensitizers for Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 27832-27842.	4.0	29
7163	Solar-Powered Plasmon-Enhanced Heterogeneous Catalysis. Nanophotonics, 2016, 5, 112-133.	2.9	102
7164	Graphitic carbon nitride supported single-atom catalysts for efficient oxygen evolution reaction. Chemical Communications, 2016, 52, 13233-13236.	2.2	176
7166	Facile Spray Deposition of Photocatalytic ZnO/CuInZnS Heterostructured Composite Thin Film. ChemistrySelect, 2016, 1, 4979-4986.	0.7	1
7167	The effects of Polyvinylpyrrolidone on the Au sizes, dispersion and enhancement of absorption spectra of the nanoparticles Au/TiO <sub>2</sub> solutions for application in plasmonic solar cell. Journal of Materials Science: Materials in Electronics, 2016, 27, 11379-11389.	1.1	1
7168	Photoelectrochemical Investigation of the Mechanism of Enhancement of Water Oxidation at the Hematite Nanorod Array Modified with NiBi. Journal of Physical Chemistry C, 2016, 120, 22766-22776.	1.5	10
7169	Numerical algorithms based on Galerkin methods for the modeling of reactive interfaces in photoelectrochemical (PEC) solar cells. Journal of Computational Physics, 2016, 327, 140-167.	1.9	10
7170	Photocatalytic WO <sub>3</sub> /TiO <sub>2</sub> nanowires: WO <sub>3</sub> polymorphs influencing the atomic layer deposition of TiO <sub>2</sub> . RSC Advances, 2016, 6, 95369-95377.	1.7	44
7171	Ultra long-lived electron-hole separation within water-soluble colloidal ZnO nanocrystals: Prospective applications for solar energy production. Nano Energy, 2016, 30, 187-192.	8.2	39
7172	The influence of an inner electric field on the performance of three types of Zn-porphyrin sensitizers in dye sensitized solar cells: a theoretical study. Journal of Materials Chemistry C, 2016, 4, 10130-10145.	2.7	31
7173	Reduced graphene oxide catalysts for efficient regeneration of cobalt-based redox electrolytes in dye-sensitized solar cells. Electrochimica Acta, 2016, 219, 258-266.	2.6	15
7174	Inhibition of Tafel Kinetics for Electrolytic Hydrogen Evolution on Isolated Micron Scale Electrocatalysts on Semiconductor Interfaces. ACS Applied Materials & Interfaces, 2016, 8, 24612-24620.	4.0	8
7175	Low Temperature Atomic Layer Deposited TiO <sub>2</sub> Compact Layers for Planar Perovskite Solar Cells. ECS Transactions, 2016, 75, 111-116.	0.3	1
7176	Theoretical Modeling for Hybrid Renewable Energy: An Initiative to Meet the Global Energy. Journal of Sustainable Energy Engineering, 2016, 4, 5-36.	0.3	12
7177	Studies on D-A- $\pi$ -A structured porphyrin sensitizers with different additional electron-withdrawing unit. Journal of Power Sources, 2016, 333, 1-9.	4.0	25

#	ARTICLE	IF	CITATIONS
7178	How Should Iron and Titanium be Combined in Oxides to Improve Photoelectrochemical Properties?. Journal of Physical Chemistry C, 2016, 120, 24521-24532.	1.5	35
7179	Manipulating electrochemical performance through doping beyond the solubility limit. Physical Chemistry Chemical Physics, 2016, 18, 16098-16105.	1.3	13
7180	Multicomponent and Domino Syntheses of AIE Chromophores. ACS Symposium Series, 2016, , 85-112.	0.5	16
7181	Fe-ions implantation to modify TiO <sub>2</sub> trilayer films for dye-sensitized solar cells. Optical Engineering, 2016, 55, 067107.	0.5	4
7182	Influence of TiO <sub>2</sub> Nanorod Arrays on the Bilayered Photoanode for Dye-Sensitized Solar Cells. Journal of Electronic Materials, 2016, 45, 4989-4998.	1.0	8
7183	Green synthesis of NiO nanoparticles using Moringa oleifera extract and their biomedical applications: Cytotoxicity effect of nanoparticles against HT-29 cancer cells. Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 352-360.	1.7	353
7184	Harnessing Nature's Purple Solar Panels for Photoenergy Conversion. World Scientific Series in Nanoscience and Nanotechnology, 2016, , 195-227.	0.1	1
7185	Zn <sub>2</sub> SnO <sub>4</sub> as an Alternative Photoanode for Dye Sensitized Solar Cells: Current Status and Future Scope. Transactions of the Indian Ceramic Society, 2016, 75, 147-154.	0.4	13
7186	Oxygenated Cup-Stacked Carbon Nanofibers/TiO <sub>2</sub> Composite Films with Enhanced Photocatalytic Currents. Bulletin of the Chemical Society of Japan, 2016, 89, 603-607.	2.0	3
7187	Zinc-Reduced Mesoporous TiO <sub>2</sub> Li-ion Battery Anodes with Exceptional Rate Capability and Cycling Stability. Chemistry - an Asian Journal, 2016, 11, 3382-3388.	1.7	8
7188	Co-crystallization and small molecule crystal form diversity: from pharmaceutical to materials applications. CrystEngComm, 2016, 18, 8528-8555.	1.3	131
7189	Electrochemical catalytic activity study of nitrogen-containing hierarchically porous carbon and its application in dye-sensitized solar cells. RSC Advances, 2016, 6, 96109-96120.	1.7	9
7190	Density functional theory study of $\beta$ -cyanoacrylic acid adsorbed on rutile TiO <sub>2</sub> (1 1 0) surface. Computational and Theoretical Chemistry, 2016, 1095, 125-133.	1.1	5
7191	Perspectives for solid biopolymer electrolytes in dye sensitized solar cell and battery application. Renewable and Sustainable Energy Reviews, 2016, 65, 1098-1117.	8.2	106
7192	Iron-Doped Nickel Phosphate as Synergistic Electrocatalyst for Water Oxidation. Chemistry of Materials, 2016, 28, 5659-5666.	3.2	262
7193	Hybrid magnetic nanocomposites containing polyconjugated polymers. Polymer Science - Series C, 2016, 58, 131-146.	0.8	6
7194	Nanowire-Enabled Energy Conversion. Nanoscience and Technology, 2016, , 227-254.	1.5	0
7195	Optimizing the Photovoltaic Properties of CdTe Quantum Dot-Porphyrin Nanocomposites: A Theoretical Study. Journal of Physical Chemistry C, 2016, 120, 17878-17886.	1.5	24

#	ARTICLE	IF	CITATIONS
7196	Fabrication of a Contamination-Free Interface between Graphene and TiO <sub>2</sub> Single Crystals. ACS Omega, 2016, 1, 168-176.	1.6	25
7197	Photoresponse properties based on CdS nanoparticles deposited on multi-walled carbon nanotubes. RSC Advances, 2016, 6, 78053-78058.	1.7	8
7198	Dye-sensitized solar cells using liquid phase deposition titania thin films. , 2016, , .		0
7199	Copper(I)-Based <i>p</i> -Type Oxides for Photoelectrochemical and Photovoltaic Solar Energy Conversion. Chemistry of Materials, 2016, 28, 5999-6016.	3.2	163
7200	The effect of photo-anode surface morphology and gel-polymer electrolyte on dye-sensitized solar cells with natural dyes. Journal of Materials Science: Materials in Electronics, 2016, 27, 9953-9961.	1.1	6
7201	ZnO@Au@SnO <sub>2</sub> Z-scheme photoanodes for remarkable photoelectrochemical water splitting. Nanoscale, 2016, 8, 15720-15729.	2.8	143
7202	Ultrathin amorphous $\gamma$ -Co(OH) <sub>2</sub> nanosheets grown on Ag nanowire surfaces as a highly active and durable electrocatalyst for oxygen evolution reaction. Dalton Transactions, 2016, 45, 13686-13690.	1.6	32
7203	Highly Efficient Platinum Free Multi-Walled Carbon Nanotubes/Silver Nanocomposites as Counter Electrode for Dye Sensitized Solar Cell. ChemistrySelect, 2016, 1, 1863-1869.	0.7	1
7204	A D- $\pi$ -A metal-free organic dye with improved efficiency for the application of solar energy conversion. Dyes and Pigments, 2016, 134, 498-505.	2.0	29
7205	A solid-state approach to fabricate a CdS/CuS nano-heterojunction with promoted visible-light photocatalytic H <sub>2</sub> -evolution activity. RSC Advances, 2016, 6, 76269-76272.	1.7	35
7206	Electrodeposited ternary iron-cobalt-nickel catalyst on nickel foam for efficient water electrolysis at high current density. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 694-702.	2.3	34
7207	Aggregation of metal-free organic sensitizers on TiO <sub>2</sub> (1 0 1) surface for use in dye-sensitized solar cells: A computational investigation. Computational and Theoretical Chemistry, 2016, 1093, 1-8.	1.1	10
7208	Cadmium sulphide quantum dots with tunable electronic properties by bacterial precipitation. RSC Advances, 2016, 6, 76158-76166.	1.7	36
7209	Synthesis and characterization of a family of layered trichalcogenides for assisted hydrogen photogeneration. Physica Status Solidi - Rapid Research Letters, 2016, 10, 802-806.	1.2	34
7210	Vanadium oxides (V <sub>2</sub> O <sub>5</sub> ) prepared with different methods for application as counter electrodes in dye-sensitized solar cells (DSCs). Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	13
7211	Poly(o-methoxyaniline) doped with an organic acid as cost-efficient counter electrodes for dye-sensitized solar cells. Electrochimica Acta, 2016, 213, 791-801.	2.6	24
7212	Optimization hydrogen production over visible light-driven titania-supported bimetallic photocatalyst from water photosplitting in tandem photoelectrochemical cell. Renewable Energy, 2016, 99, 960-970.	4.3	25
7213	Scaling of the flexible dye sensitized solar cell module. Solar Energy Materials and Solar Cells, 2016, 157, 438-446.	3.0	36

#	ARTICLE	IF	CITATIONS
7214	Single oxygen vacancies of (TiO <sub>2</sub> ) <sub>35</sub> as a prototype reduced nanoparticle: implication for photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23755-23762.	1.3	35
7215	CdS/CdSe co-sensitized hierarchical TiO <sub>2</sub> nanofiber/ZnO nanosheet heterojunction photoanode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 78202-78209.	1.7	16
7216	A simple and effective crystal growth inhibitor for high performance solid-state dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 75138-75143.	1.7	2
7217	Numerical simulation of CdS quantum dot sensitized solar cell using the Silvaco-Atlas software. <i>Optik</i> , 2016, 127, 10096-10101.	1.4	12
7218	Room temperature synthesis of a highly active Cu/Cu <sub>2</sub> O photocathode for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13736-13741.	5.2	43
7219	Decatungstate acid improves the photo-induced electron lifetime and retards the recombination in dye sensitized solar cells. <i>Dalton Transactions</i> , 2016, 45, 14940-14947.	1.6	11
7220	Nanowire Array Structures for Photocatalytic Energy Conversion and Utilization: A Review of Design Concepts, Assembly and Integration, and Function Enabling. <i>Advanced Energy Materials</i> , 2016, 6, 1600683.	10.2	89
7221	Effects of interfacial layers on the photoelectrochemical properties of tantalum nitride photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13837-13843.	5.2	13
7222	Thieno[2,3-b]indole-based organic dyes for dye-sensitized solar cells: Effect of ì-linker on the performance of isolated dye and interface between dyes and TiO <sub>2</sub> . <i>Organic Electronics</i> , 2016, 38, 61-68.	1.4	23
7223	Molecular deposition of a macrocyclic cobalt catalyst on TiO <sub>2</sub> nanoparticles. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 293-299.	4.8	10
7224	Comparative photoelectrochemical studies of regioregular polyhexylthiophene with microdiamond, nanodiamond and hexagonal boron nitride hybrid films. <i>Thin Solid Films</i> , 2016, 615, 226-232.	0.8	12
7225	Liquid Water through Density-Functional Molecular Dynamics: Plane-Wave vs Atomic-Orbital Basis Sets. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3456-3462.	2.3	23
7226	Mesoporous Assembly of Cuboid Anatase Nanocrystals into Hollow Spheres: Realizing Enhanced Photoactivity of High Energy {001} Facets. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18028-18038.	1.5	24
7227	Oxygen Evolution at Hematite Surfaces: The Impact of Structure and Oxygen Vacancies on Lowering the Overpotential. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18201-18208.	1.5	107
7228	Pt-Decorated g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Nanotube Arrays with Enhanced Visible-Light Photocatalytic Activity for H <sub>2</sub> Evolution. <i>ChemistryOpen</i> , 2016, 5, 197-200.	0.9	30
7229	Structure and water oxidation activity of 3d metal oxides. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 47-64.	6.2	20
7230	Synthesis and improved dye-sensitized solar cells performance of TiO <sub>2</sub> nanowires/nanospheres composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12591-12598.	1.1	2
7231	MnPS <sub>3</sub> Monolayer: A Promising 2D Visible-Light Photohydrolytic Catalyst with High Carrier Mobility. <i>Advanced Science</i> , 2016, 3, 1600062.	5.6	291



#	ARTICLE	IF	CITATIONS
7232	Solution-Processed Graphene Composite Films as Freestanding Platinum-Free Counter Electrodes for Bendable Dye Sensitized Solar Cells. Chinese Journal of Chemistry, 2016, 34, 59-66.	2.6	8
7233	Improved performance of P-type DSCs with a compact blocking layer coated by different thicknesses. Electronic Materials Letters, 2016, 12, 638-644.	1.0	4
7234	Laser assisted glass frit sealing for production large area DSCs panels. Solar Energy, 2016, 135, 674-681.	2.9	20
7235	Effects of TiO <sub>2</sub> and TiC Nanofillers on the Performance of Dye Sensitized Solar Cells Based on the Polymer Gel Electrolyte of a Cobalt Redox System. ACS Applied Materials & Interfaces, 2016, 8, 24559-24566.	4.0	27
7236	Enhanced conversion efficiency of quasi solid state dye sensitized solar cells based on functionalized multi-walled carbon nanotubes incorporated TiO <sub>2</sub> photoanode. Journal of Materials Science: Materials in Electronics, 2016, 27, 10010-10019.	1.1	0
7237	Preparation of graphitic carbon nitride with large specific surface area and outstanding N <sub>2</sub> photofixation ability via a dissolve-regrowth process. Journal of Physics and Chemistry of Solids, 2016, 99, 51-58.	1.9	65
7238	Hierarchically CuInS <sub>2</sub> Nanosheet-Constructed Nanowire Arrays for Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2016, 3, 1600494.	1.9	35
7239	Review of recent progress in unassisted photoelectrochemical water splitting: from material modification to configuration design. Journal of Photonics for Energy, 2016, 7, 012006.	0.8	81
7240	ALD-coated ultrathin Al <sub>2</sub> O <sub>3</sub> film on BiVO <sub>4</sub> nanoparticles for efficient PEC water splitting. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	1.3	11
7241	Near-infrared photoluminescence enhancement of N-acetyl-L-cysteine (NAC)-protected gold nanoparticles via fluorescence resonance energy transfer from NAC-stabilized CdTe quantum dots. RSC Advances, 2016, 6, 88042-88049.	1.7	1
7242	Bis(1,1-bis(2-pyridyl)ethane)copper(I) as an efficient redox couple for liquid dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 14550-14554.	5.2	63
7243	Correlation of H Adsorption Energy and Nanoscale Elastic Surface Strain on Rutile TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2016, 120, 21373-21380.	1.5	8
7244	Theoretical study on thiophene-based double helicenes with intrinsic large second-order nonlinear optical response. RSC Advances, 2016, 6, 84705-84711.	1.7	4
7245	Solution-processed CuSbS <sub>2</sub> thin film: A promising earth-abundant photocathode for efficient visible-light-driven hydrogen evolution. Nano Energy, 2016, 28, 135-142.	8.2	70
7246	A ZnO/TiO <sub>2</sub> composite nanorods photoanode with improved performance for dye-sensitized solar cells. Crystal Research and Technology, 2016, 51, 548-553.	0.6	12
7247	Cu-doped flower-like hematite nanostructures for efficient water splitting applications. Journal of Physics and Chemistry of Solids, 2016, 98, 283-289.	1.9	45
7248	Organic dyes containing fluorenylidene functionalized phenothiazine donors as sensitizers for dye sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 12392-12404.	1.1	4
7249	Role of Metal Oxide Electron Transport Layer Modification on the Stability of High Performing Perovskite Solar Cells. ChemSusChem, 2016, 9, 2559-2566.	3.6	76

#	ARTICLE	IF	CITATIONS
7250	Edge or interface effect on bandgap openings in graphene nanostructures: A thermodynamic approach. <i>Coordination Chemistry Reviews</i> , 2016, 326, 1-33.	9.5	16
7251	Noncovalent Immobilization of a Pyrene-Modified Cobalt Corrole on Carbon Supports for Enhanced Electrocatalytic Oxygen Reduction and Oxygen Evolution in Aqueous Solutions. <i>ACS Catalysis</i> , 2016, 6, 6429-6437.	5.5	170
7252	Moving Graphitic Carbon Nitride from Electrocatalysis and Photocatalysis to a Potential Electrode Material for Photoelectric Devices. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2499-2512.	1.7	34
7253	Theoretical study of metal-free organic dyes based on different configurations for efficient dye-sensitized solar cells. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1796-1801.	1.0	3
7254	Constructing Well-Ordered CdTe/TiO <sub>2</sub> Core/Shell Nanowire Arrays for Solar Energy Conversion. <i>Small</i> , 2016, 12, 5538-5542.	5.2	14
7255	Probing the Highly Efficient Electron Transfer Dynamics between Zinc Protoporphyrin IX and Sodium Titanate Nanosheets. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7121-7129.	1.1	6
7256	Anatase TiO <sub>2</sub> nanosheets with exposed highly reactive (001) facets as an efficient photoanode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 67968-67975.	1.7	18
7257	The influence of a dye-TiO <sub>2</sub> interface on DSSC performance: a theoretical exploration with a ruthenium dye. <i>RSC Advances</i> , 2016, 6, 81976-81982.	1.7	28
7258	Recycling Rare-Earth Slag for Enhanced Photoelectrochemical Efficiency of a Reduced Graphene Oxide-Covered CdSe@ZnO Hetero-Nanostructured Photoanode. <i>ChemElectroChem</i> , 2016, 3, 1890-1898.	1.7	7
7259	Rate Law Analysis of Water Oxidation and Hole Scavenging on a BiVO <sub>4</sub> Photoanode. <i>ACS Energy Letters</i> , 2016, 1, 618-623.	8.8	76
7260	Polymers from phenyl-substituted benzodithiophene and tetrafluoroquinoline with high open circuit voltage and high fill factor. <i>Organic Electronics</i> , 2016, 37, 287-293.	1.4	17
7261	Thermally Prepared Mn <sub>2</sub> O <sub>3</sub> /RuO <sub>2</sub> /Ru Thin Films as Highly Active Catalysts for the Oxygen Evolution Reaction in Alkaline Media. <i>ChemElectroChem</i> , 2016, 3, 1847-1855.	1.7	19
7262	Electrospun 1D SiO <sub>2</sub> doped Bi <sub>2</sub> MoO <sub>6</sub> microbelts for highly efficient photocatalytic applications. <i>Dyes and Pigments</i> , 2016, 134, 553-561.	2.0	21
7263	Elevating Biomedical Performance of ZnO/SiO <sub>2</sub> @Amorphous Calcium Phosphate - Bioinspiration Making Possible the Impossible. <i>Advanced Functional Materials</i> , 2016, 26, 6921-6929.	7.8	13
7264	Hierarchical rutile TiO <sub>2</sub> aggregates: A high photonic strength material for optical and optoelectronic devices. <i>Acta Materialia</i> , 2016, 119, 92-103.	3.8	30
7265	Oxygen Deficient TiO <sub>2</sub> ; Photoanode for Photoelectrochemical Water Oxidation. <i>Solid State Phenomena</i> , 0, 253, 11-40.	0.3	3
7266	The role of the electronic structure and solvent in the dye-sensitized solar cells based on Zn-porphyrins: Theoretical study. <i>Energy</i> , 2016, 114, 559-567.	4.5	36
7267	A solar storable fuel cell with efficient photo-degradation of organic waste for direct electricity generation. <i>Energy Storage Materials</i> , 2016, 5, 165-170.	9.5	10

#	ARTICLE	IF	CITATIONS
7268	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. <i>Nano Letters</i> , 2016, 16, 7588-7596.	4.5	186
7269	Ultrahigh photoconductivity of bandgap-graded CdSxSe1-x nanowires probed by terahertz spectroscopy. <i>Scientific Reports</i> , 2016, 6, 27387.	1.6	15
7270	Direct Observation of Photoinduced Charge Separation in Ruthenium Complex/Ni(OH) <sub>2</sub> Nanoparticle Hybrid. <i>Scientific Reports</i> , 2016, 5, 18505.	1.6	6
7271	Tantalum nitride for photocatalytic water splitting: concept and applications. <i>Materials for Renewable and Sustainable Energy</i> , 2016, 5, 1.	1.5	70
7272	Graphitic Carbon Nitride Film: An Emerging Star for Catalytic and Optoelectronic Applications. <i>ChemSusChem</i> , 2016, 9, 2723-2735.	3.6	96
7273	High performance carbon black counter electrodes for dye-sensitized solar cells. <i>Energy</i> , 2016, 115, 513-518.	4.5	88
7274	Intramolecular Singlet Fission in Quinoidal Bi- and Tetrathiophenes: A Comparative Study of Low-Lying Excited Electronic States and Potential Energy Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5067-5075.	2.3	17
7275	Understanding the role of silica nanospheres with their light scattering and energy barrier properties in enhancing the photovoltaic performance of ZnO based solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27818-27828.	1.3	21
7276	Poly(ionic liquid)-Mediated Morphogenesis of Bismuth Sulfide with a Tunable Band Gap and Enhanced Electrochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12812-12816.	7.2	34
7277	In Situ Solid State Synthesis of a Ag <sub>3</sub> N <sub>4</sub> Nanocomposite for Enhanced Photoelectrochemical and Photocatalytic Activity. <i>ChemSusChem</i> , 2016, 9, 2816-2823.	3.6	53
7278	Enhanced photocatalytic activity of nanostructured titanium dioxide/polyaniline hybrid photocatalysts. <i>Polyhedron</i> , 2016, 120, 169-174.	1.0	386
7279	Engineering of modular organic photovoltaic devices with dye sensitized architecture. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16108-16118.	5.2	8
7280	Factors Affecting the Performance of Champion Silyl Anchor Carbazole Dye Revealed in the Femtosecond to Second Studies of Complete ADEKA Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2016, 22, 15807-15818.	1.7	18
7281	Development of Novel Photocatalyst and Cocatalyst Materials for Water Splitting under Visible Light. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 627-648.	2.0	154
7282	Wide range temperature dependence of analytical photovoltaic cell parameters for silicon solar cells under high illumination conditions. <i>Applied Energy</i> , 2016, 183, 715-724.	5.1	61
7283	One-step solvothermal tailoring the compositions and phases of nickel cobalt sulfides on conducting oxide substrates as counter electrodes for efficient dye-sensitized solar cells. <i>Applied Surface Science</i> , 2016, 390, 847-855.	3.1	23
7284	Theoretical design and characterization of high-efficiency organic dyes with different electron-withdrawing groups based on C275 toward dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2016, 40, 9320-9328.	1.4	18
7285	Exposure of WO <sub>3</sub> Photoanodes to Ultraviolet Light Enhances Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25010-25013.	4.0	26

#	ARTICLE	IF	CITATIONS
7286	Picosecond charge transport in rutile at high carrier densities studied by transient terahertz spectroscopy. <i>Physical Review B</i> , 2016, 94, .	1.1	4
7287	Intelligent Nanosystems for Energy, Information and Biological Technologies. , 2016, , .		2
7288	An efficient dye-sensitized solar cell with a promising material of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> nanofibers/graphene. <i>Electrochimica Acta</i> , 2016, 215, 543-549.	2.6	29
7289	Finding the Way to Solar Fuels with Dye-Sensitized Photoelectrosynthesis Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 13085-13102.	6.6	317
7290	Solution-Based in situ Synthesis of Transition Metal Sulfides as Efficient Counter Electrodes for Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2016, 1, 4613-4619.	0.7	10
7291	Electrospinning in Situ Synthesis of Graphene-Doped Porous Copper Indium Disulfide/Carbon Composite Nanofibers for Highly Efficient Counter Electrode in Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016, 215, 626-636.	2.6	24
7292	Recent advance on engineering titanium dioxide nanotubes for photochemical and photoelectrochemical water splitting. <i>Nano Energy</i> , 2016, 30, 728-744.	8.2	112
7293	Enhanced charge separation and transfer through Fe <sub>2</sub> O <sub>3</sub> /ITO nanowire arrays wrapped with reduced graphene oxide for water-splitting. <i>Nano Energy</i> , 2016, 30, 892-899.	8.2	71
7294	Enhanced Performance of Si MIS Photocathodes Containing Oxide-Coated Nanoparticle Electrocatalysts. <i>Nano Letters</i> , 2016, 16, 6452-6459.	4.5	55
7295	Poly(ionic liquid)-Mediated Morphogenesis of Bismuth Sulfide with a Tunable Band Gap and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie</i> , 2016, 128, 13004-13008.	1.6	10
7296	Photocatalytic Water Splitting. <i>Green Energy and Technology</i> , 2016, , 159-174.	0.4	2
7297	Strain-Robust and Electric Field Tunable Band Alignments in van der Waals WSe <sub>2</sub> -Graphene Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22702-22709.	1.5	34
7298	Characterization and charge transfer properties of organic BODIPY dyes integrated in TiO <sub>2</sub> nanotube based dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 91529-91540.	1.7	17
7299	Photovoltaic cells based on organic composites. , 2016, , .		0
7300	Regulating ancillary ligands of Ru(II) complexes with square-planar quadridentate ligands for more efficient sensitizers in dye-sensitized solar cells: insights from theoretical investigations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29591-29599.	1.3	9
7301	Plasmon resonance energy transfer and hot electron injection induced high photocurrent density in liquid junction Ag@Ag <sub>2</sub> S sensitized solar cells. <i>Dalton Transactions</i> , 2016, 45, 16275-16282.	1.6	14
7302	Investigation of the photoinduced electron injection processes for natural dye-sensitized solar cells: the impact of anchoring groups. <i>RSC Advances</i> , 2016, 6, 85125-85134.	1.7	51
7303	Advanced Materials for Biomedical Engineering Applications. , 2016, , 384-420.		0

#	ARTICLE	IF	CITATIONS
7304	Photocatalytic Carbon Dioxide Reduction at p-type Copper(I) Iodide. <i>ChemSusChem</i> , 2016, 9, 2933-2938.	3.6	40
7305	In Situ Gelation of Poly(vinylidene fluoride) Nanospheres for Dye-Sensitized Solar Cells: The Analysis on the Efficiency Enhancement upon Gelation. <i>Langmuir</i> , 2016, 32, 7735-7740.	1.6	6
7306	Second order hyperpolarizability of triphenylamine based organic sensitizers: a first principle theoretical study. <i>RSC Advances</i> , 2016, 6, 75242-75250.	1.7	37
7307	Mimicking Ultrafast Biological Systems. <i>Biological and Medical Physics Series</i> , 2016, , 179-197.	0.3	0
7308	Highly active and reflective MoS <sub>2</sub> counter electrode for enhancement of photovoltaic efficiency of dye sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 212, 614-620.	2.6	50
7309	n-InAs based photo-thermo-electrochemical cells for conversion of solar to electrical energy. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 267-272.	1.9	5
7310	Porous Hybrid Polymers as Platforms for Heterogeneous Photochemical Catalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19994-20002.	4.0	35
7311	Excitation energy transfer from long-persistent phosphors for enhancing power conversion of dye-sensitized solar cells. <i>Physical Review B</i> , 2016, 93, .	1.1	15
7312	A Molecular Relay Modified CdS Sensitized Photoelectrochemical Cell for Overall Water Splitting. <i>ChemElectroChem</i> , 2016, 3, 1471-1477.	1.7	4
7313	Exergy analysis of solar thermal collectors and processes. <i>Progress in Energy and Combustion Science</i> , 2016, 56, 106-137.	15.8	199
7314	N-Heterotriangulene chromophores with 4-pyridyl anchors for dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 67372-67377.	1.7	20
7315	Highly Functional TNTs with Superb Photocatalytic, Optical, and Electronic Performance Achieving Record PV Efficiency of 10.1% for 1D-Based DSSCs. <i>Small</i> , 2016, 12, 4508-4520.	5.2	32
7316	Modified pyrene based organic sensitizers with thiophene-2-acetonitrile as spacer for dye sensitized solar cell applications. <i>Organic Electronics</i> , 2016, 37, 326-335.	1.4	11
7317	Nanoporous carbon/WO <sub>3</sub> anodes for an enhanced water photooxidation. <i>Carbon</i> , 2016, 108, 471-479.	5.4	27
7318	Sol-hydrothermal synthesis of TiO <sub>2</sub> :Sm <sup>3+</sup> nanoparticles and their enhanced photovoltaic properties. <i>Journal of Alloys and Compounds</i> , 2016, 686, 803-809.	2.8	15
7319	Probing Structure of Cross-Linked (1 Å– 2) Rutile TiO <sub>2</sub> (110): Adsorption of Trimethyl Acetic Acid. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15257-15264.	1.5	3
7320	Fundamental study of Ti feedstock evaporation and the precursor formation process in inductively coupled thermal plasmas during TiO <sub>2</sub> nanopowder synthesis. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 305501.	1.3	18
7321	Enhanced Light Harvesting in Mesoscopic Solar Cells by Multilevel Multiscale Patterned Photoelectrodes with Superpositioned Optical Properties. <i>Advanced Functional Materials</i> , 2016, 26, 6584-6592.	7.8	17

#	ARTICLE	IF	CITATIONS
7322	Preparation of TiO <sub>2</sub> microspheres with flower-like morphology through a water-in-oil emulsion route assisted by solvothermal treatment. <i>Particuology</i> , 2016, 29, 172-176.	2.0	1
7323	Direct conversion of CO <sub>2</sub> to 3D graphene and its excellent performance for dye-sensitized solar cells with 10% efficiency. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12054-12057.	5.2	55
7324	An efficient counter electrode material for dye-sensitized solar cells—flower-structured 1T metallic phase MoS <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2016, 4, 12398-12401.	5.2	127
7325	Effect of various synthesis protocols on doping profile of ZnO:Eu Nanowires. <i>Nano Structures Nano Objects</i> , 2016, 7, 69-74.	1.9	15
7326	Dynamics of Electron Injection in SnO <sub>2</sub> /TiO <sub>2</sub> Core/Shell Electrodes for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2930-2934.	2.1	56
7327	Trade-off between Zr Passivation and Sn Doping on Hematite Nanorod Photoanodes for Efficient Solar Water Oxidation: Effects of a ZrO <sub>2</sub> Underlayer and FTO Deformation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19428-19437.	4.0	51
7328	Highly Enhanced Photoelectrochemical Water Oxidation Efficiency Based on Triadic Quantum Dot/Layered Double Hydroxide/BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19446-19455.	4.0	227
7330	Luminescent Ions in Advanced Composite Materials for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2016, 26, 6330-6350.	7.8	198
7331	Bilayered Biofoam for Highly Efficient Solar Steam Generation. <i>Advanced Materials</i> , 2016, 28, 9400-9407.	11.1	457
7332	Moisture-Assisted Preparation of Compact GaN:ZnO Photoanode Toward Efficient Photoelectrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2016, 6, 1600864.	10.2	54
7333	Bifunctional Anchoring Organic Dyes that Contain Benzimidazole Branches for Dye-Sensitized Solar Cells: Effects of the Spacer and Peripheral Donor Groups. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2564-2577.	1.7	32
7334	Facile microwave approach for synthesis of CdS quantum dots as barrier layer for increasing dye-sensitized solar cells efficiency. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12240-12246.	1.1	6
7335	Carbon dioxide adsorption studies on delafossite CuFeO <sub>2</sub> hydrothermally synthesized. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 98, 271-279.	1.9	22
7336	Dye-sensitized solar cells: Development, structure, operation principles, electron kinetics, characterisation, synthesis materials and natural photosensitisers. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 183-213.	8.2	139
7337	Ab Initio Study of Water Adsorption and Reactivity on the (211) Surface of Anatase TiO <sub>2</sub> . <i>Physical Review Applied</i> , 2016, 5, .	1.5	12
7338	Disentangling Photochromism and Electrochromism by Blocking Hole Transfer at the Electrolyte Interface. <i>Chemistry of Materials</i> , 2016, 28, 7198-7202.	3.2	24
7339	Homologous Compounds ZnIn <sub>2</sub> O <sub>3+n</sub> (n = 4, 5, and 7) Containing Laminated Functional Groups as Efficient Photocatalysts for Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28700-28708.	4.0	24
7340	Efficient Photocatalytic Production of Hydrogen Peroxide from Water and Dioxygen with Bismuth Vanadate and a Cobalt(II) Chlorine Complex. <i>ACS Energy Letters</i> , 2016, 1, 913-919.	8.8	98

#	ARTICLE	IF	CITATIONS
7341	Energetics of native defects in anatase TiO <sub>2</sub> : a hybrid density functional study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30040-30046.	1.3	31
7342	The layer boundary effect on multi-layer mesoporous TiO <sub>2</sub> film based dye sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 98167-98170.	1.7	3
7343	Plasmonic-resonance-based ternary composite complementary enhancement of the performance of dye-sensitized solar cells. <i>Nanotechnology</i> , 2016, 27, 415202.	1.3	9
7344	Hydrogen storage characteristics of Ti <sup>4+</sup> and V <sup>4+</sup> -based thin films. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 141-146.	1.5	5
7345	Influence of polyoxyethylene phytosterol addition in ionic liquid-based electrolyte on photovoltaic performance of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 219, 766-772.	2.6	1
7346	Semiconducting materials for photoelectrochemical energy conversion. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	1,212
7347	Carbon containing conductive networks in composite particle-based photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17087-17095.	5.2	7
7348	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) <sub>0.85</sub> (CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> ) <sub>0.15</sub> Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie</i> , 2016, 128, 15555-15559.	1.6	8
7349	Highly efficient gel-state dye-sensitized solar cells prepared using propionitrile and poly(vinylidene) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	4.0	10
7350	Integration of TiO <sub>2</sub> photoanode and perovskite solar cell for overall solar-driven water splitting. <i>RSC Advances</i> , 2016, 6, 110120-110126.	1.7	11
7351	A selectively decorated Ti-FeOOH co-catalyst for a highly efficient porous hematite-based water splitting system. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18730-18736.	5.2	47
7352	Two-dimensional binary mixtures of patchy particles and spherical colloids. <i>Soft Matter</i> , 2016, 12, 9538-9548.	1.2	10
7353	DFT/TD <sup>2</sup> DFT Studies of Metal-Free N <sub>6</sub> -Annulated Perylene Based Organic Sensitizers for Dye-Sensitized Solar Cells: Is Thiophene Spacer Essential for Improving the DSSC Performance?. <i>ChemistrySelect</i> , 2016, 1, 5854-5862.	0.7	26
7354	Hungry Porphyrins: Protonation and Self-Metalation of Tetraphenylporphyrin on TiO <sub>2</sub> (110) $\approx 1 \text{ \AA}$ . <i>ChemistrySelect</i> , 2016, 1, 6103-6105.	0.7	30
7355	A DSSC with an Efficiency of $\approx 10\%$ : Fermi Level Manipulation Impacting the Electron Transport at the Photoelectrode-Electrolyte Interface. <i>ChemistrySelect</i> , 2016, 1, 6179-6187.	0.7	10
7356	Quaterpyridines as Scaffolds for Functional Metallosupramolecular Materials. <i>Chemical Reviews</i> , 2016, 116, 14620-14674.	23.0	54
7357	Spent Tea Leaf Templating of Cobalt-Based Mixed Oxide Nanocrystals for Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32488-32495.	4.0	43
7358	A highly stable and efficient quasi solid state dye sensitized solar cell based on Polymethyl methacrylate(PMMA)/Polyaniline Nanotube(PANI-NT) gel electrolyte. <i>Electrochimica Acta</i> , 2016, 222, 1072-1078.	2.6	24

#	ARTICLE	IF	CITATIONS
7359	Dual Functional Polymer Interlayer for Facilitating Ion Transport and Reducing Charge Recombination in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 33666-33672.	4.0	2
7360	Wrinkled silica/titania nanoparticles with tunable interwrinkle distances for efficient utilization of photons in dye-sensitized solar cells. Scientific Reports, 2016, 6, 30829.	1.6	33
7361	Hydrogen Treated Niobium Oxide Nanotube Arrays for Photoelectrochemical Water Oxidation. Journal of the Electrochemical Society, 2016, 163, H1165-H1170.	1.3	12
7362	Graphene oxide co-doped with nitrogen and sulfur and decorated with cobalt phosphide nanorods: An efficient hybrid catalyst for electrochemical hydrogen evolution. Electrochimica Acta, 2016, 222, 246-256.	2.6	57
7363	Sn/Be Sequentially co-doped Hematite Photoanodes for Enhanced Photoelectrochemical Water Oxidation: Effect of Be <sup>2+</sup> as co-dopant. Scientific Reports, 2016, 6, 23183.	1.6	75
7364	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) <sub>0.85</sub> (CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> ) <sub>0.15</sub> Photocathodes Prepared by a Bilayer Method. Angewandte Chemie - International Edition, 2016, 55, 15329-15333.	7.2	38
7365	Semiconductor Nanowires for Energy Harvesting. Semiconductors and Semimetals, 2016, 94, 297-368.	0.4	9
7366	The effect of Mo doping on the charge separation dynamics and photocurrent performance of BiVO <sub>4</sub> photoanodes. Physical Chemistry Chemical Physics, 2016, 18, 32820-32825.	1.3	31
7367	Influence of an Al-blended TiO <sub>2</sub> photoanode on the photovoltaic properties of n-DSSCs. Molecular Crystals and Liquid Crystals, 2016, 637, 96-104.	0.4	0
7368	A DFT study of the effect of SO <sub>4</sub> groups on the properties of TiO <sub>2</sub> nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 33068-33076.	1.3	7
7369	Efficient water oxidation kinetics and enhanced electron transport in Li-doped TiO <sub>2</sub> nanotube photoanodes. Journal of Materials Chemistry A, 2016, 4, 19070-19077.	5.2	25
7370	Enhanced carrier collection efficiency in hierarchical nano-electrode for a high-performance photoelectrochemical cell. Journal of Power Sources, 2016, 336, 367-375.	4.0	13
7371	Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production. Nanotechnology, 2016, 27, 495405.	1.3	25
7372	Electrochemically activated NiSe-Ni <sub>x</sub> S <sub>y</sub> hybrid nanorods as efficient electrocatalysts for oxygen evolution reaction. Electrochimica Acta, 2016, 220, 536-544.	2.6	60
7373	Ultrathin-walled Co <sub>9</sub> S <sub>8</sub> nanotube/reduced graphene oxide composite as an efficient electrocatalyst for the reduction of triiodide. Journal of Power Sources, 2016, 336, 132-142.	4.0	31
7374	Ab Initio Investigation of Polyethylene Glycol Coating of TiO <sub>2</sub> Surfaces. Journal of Physical Chemistry C, 2016, 120, 29190-29201.	1.5	11
7375	Novel metal-free organic dyes possessing fused heterocyclic structural motifs for efficient molecular photovoltaics. Physical Chemistry Chemical Physics, 2016, 18, 30105-30116.	1.3	8
7376	<i>Ab Initio</i> Electronic Structure of Liquid Water. Physical Review Letters, 2016, 117, 186401.	2.9	64



#	ARTICLE	IF	CITATIONS
7377	A comparative study of porphyrin dye sensitizers YD2-o-C8, SM315 and SM371 for solar cells: the electronic structures and excitation-related properties. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	10
7378	Cobalt selenite dihydrate as an effective and stable Pt-free counter electrode in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 336, 83-90.	4.0	27
7379	Exploitation of a spontaneous spatial charge separation effect in plasmonic polyhedral $\text{Fe}_2\text{O}_3$ nanocrystal photoelectrodes for hydrogen production. <i>Nano Energy</i> , 2016, 30, 523-530.	8.2	16
7380	Photoelectrochemical and theoretical investigations of spinel type ferrites ( $\text{M}_{1-x}\text{Fe}_3\text{O}_4$ ) for water splitting: a mini-review. <i>Journal of Photonics for Energy</i> , 2016, 7, 012009.	0.8	111
7381	Influence of defects and nanoscale strain on the photovoltaic properties of CdS/CdSe nanocomposite co-sensitized ZnO nanowire solar cells. <i>Electrochimica Acta</i> , 2016, 220, 500-510.	2.6	17
7382	Engineering interfacial structure in $\text{PbS/CdS}$ quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541.	8.2	88
7383	Structure engineering of a core/shell $\text{Si@Ta}_3\text{N}_5$ heterojunction nanowires array for photoelectrochemical water oxidation. <i>RSC Advances</i> , 2016, 6, 104955-104961.	1.7	5
7384	Hollow $\text{Fe}_2\text{O}_3$ nanofibres for solar water oxidation: improving the photoelectrochemical performance by formation of $\text{Fe}_2\text{O}_3/\text{ITO}$ -composite photoanodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18444-18456.	5.2	37
7385	Local heterojunctions of atomic Pt clusters boost the oxygen reduction activity of $\text{Ru@Pd}$ nanocrystallites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17848-17856.	5.2	3
7386	Generation of Transparent Oxygen Evolution Electrode Consisting of Regularly Ordered Nanoparticles from Self-Assembly Cobalt Phthalocyanine as a Template. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32376-32384.	4.0	12
7387	Enhanced photoelectrochemical water oxidation of bismuth vanadate via a combined strategy of W doping and surface RGO modification. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31803-31810.	1.3	35
7388	$\text{WO}_3$ nanosponge photoanodes with high applied bias photon-to-current efficiency for solar hydrogen and peroxydisulfate production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17809-17818.	5.2	49
7389	Microwave-Assisted Synthesis of Metallic Nanoparticles Stephany Garc�a, Graham W. Piburn, and Simon M. Humphrey. , 2016, , 279-320.		0
7390	Design of high-performance dye-sensitized solar cells by variation of the dihedral angles of dyes. <i>Tetrahedron</i> , 2016, 72, 8387-8392.	1.0	3
7391	Photoelectrochemical water splitting enhanced by self-assembled metal nanopillars embedded in an oxide semiconductor photoelectrode. <i>Nature Communications</i> , 2016, 7, 11818.	5.8	70
7392	Micro-cable structured textile for simultaneously harvesting solar and mechanical energy. <i>Nature Energy</i> , 2016, 1, .	19.8	879
7393	Hydrogen Generation using non-polar coaxial $\text{InGaN/GaN}$ Multiple Quantum Well Structure Formed on Hollow $\text{n-GaN}$ Nanowires. <i>Scientific Reports</i> , 2016, 6, 31996.	1.6	16
7394	Efficient hydrogen evolution by ternary molybdenum sulfoselenide particles on self-standing porous nickel diselenide foam. <i>Nature Communications</i> , 2016, 7, 12765.	5.8	312

#	ARTICLE	IF	CITATIONS
7395	Low-temperature electrodeposition approach leading to robust mesoscopic anatase TiO <sub>2</sub> films. <i>Scientific Reports</i> , 2016, 6, 21588.	1.6	22
7396	DFT and TD-DFT study of benzene and borazines containing chromophores for DSSC materials. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 1267-1273.	0.3	6
7397	Synthesis and characterization of UV-treated Fe-doped bismuth lanthanum titanate-doped TiO <sub>2</sub> layers in dye-sensitized solar cells. <i>Journal of the Korean Physical Society</i> , 2016, 68, 1399-1402.	0.3	1
7398	Toward Metal-Free Organic Framework-Based Solar Cells: Enhancing Directional Exciton Transport by Collapsing Three-Dimensional Film Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30863-30870.	4.0	88
7399	Enhanced photovoltaic properties in dye sensitized solar cells by surface treatment of SnO <sub>2</sub> photoanodes. <i>Scientific Reports</i> , 2016, 6, 23312.	1.6	80
7400	Pentenary chalcogenides nanocrystals as catalytic materials for efficient counter electrodes in dye-sensitized solar cells. <i>Scientific Reports</i> , 2016, 6, 29207.	1.6	56
7401	Dependence of Photoelectrochemical Properties on Geometry Factors of Interconnected Pillar-like ZnO Networks. <i>Electrochimica Acta</i> , 2016, 222, 232-245.	2.6	15
7402	Cu <sub>2</sub> O/CuO Bilayered Composite as a High-Efficiency Photocathode for Photoelectrochemical Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2016, 6, 35158.	1.6	338
7403	Hierarchical ZnO nanorod-on-nanosheet arrays electrodes for efficient CdSe quantum dot-sensitized solar cells. <i>Science China Materials</i> , 2016, 59, 807-816.	3.5	21
7404	Understanding structure-property correlation of metal free organic dyes using interfacial electron transfer measurements. <i>Solar Energy</i> , 2016, 139, 547-556.	2.9	10
7405	Molecular Architecture Studied by the Surface Forces Measurement. <i>Langmuir</i> , 2016, 32, 12290-12303.	1.6	6
7406	New Insight into the Angle Insensitivity of Ultrathin Planar Optical Absorbers for Broadband Solar Energy Harvesting. <i>Scientific Reports</i> , 2016, 6, 32515.	1.6	17
7407	In Situ Growth of Highly Adhesive Surface Layer on Titanium Foil as Durable Counter Electrodes for Efficient Dye-sensitized Solar Cells. <i>Scientific Reports</i> , 2016, 6, 34596.	1.6	3
7408	Attempts to improve the H <sub>2</sub> S sensitivity of TiO <sub>2</sub> films. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
7409	Rare-earth and Nb doping of TiO <sub>2</sub> nanocrystalline mesoscopic layers for high-efficiency dye-sensitized solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1801-1806.	0.8	12
7410	Toward High Performance Photoelectrochemical Water Oxidation: Combined Effects of Ultrafine Cobalt Iron Oxide Nanoparticle. <i>Advanced Functional Materials</i> , 2016, 26, 4414-4421.	7.8	97
7411	Visible-Light-Induced Photoredox Catalysis of Dye-Sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. <i>Angewandte Chemie</i> , 2016, 128, 4775-4778.	1.6	147
7412	Curing BiVO <sub>4</sub> Photoanodes with Ultraviolet Light Enhances Photoelectrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1769-1772.	7.2	138

#	ARTICLE	IF	CITATIONS
7413	Visible-Light-Induced Photoredox Catalysis of Dye-Sensitized Titanium Dioxide: Selective Aerobic Oxidation of Organic Sulfides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4697-4700.	7.2	222
7414	Flower-like Cu <sub>2</sub> In <sub>2</sub> ZnS <sub>5</sub> Nanosheets: A Novel Promising Photoelectrode for Water Splitting. <i>ChemCatChem</i> , 2016, 8, 1288-1292.	1.8	11
7415	Mesomorphism and Photophysics of Some Metallomesogens Based on Hexa-substituted 2,2',6',6'-Terpyridines. <i>Chemistry - A European Journal</i> , 2016, 22, 8215-8233.	1.7	31
7416	A Front-Illuminated Nanostructured Transparent BiVO <sub>4</sub> Photoanode for >2% Efficient Water Splitting. <i>Advanced Energy Materials</i> , 2016, 6, 1501645.	10.2	313
7417	Energy States of a Core-Shell Metal Oxide Photocatalyst Enabling Visible Light Absorption and Utilization in Solar-to-Fuel Conversion of Carbon Dioxide. <i>Advanced Energy Materials</i> , 2016, 6, 1600583.	10.2	17
7418	Selenium-Enriched Nickel Selenide Nanosheets as a Robust Electrocatalyst for Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6919-6924.	7.2	307
7419	Free-Standing Membranes to Study the Optical Properties of Anodic TiO <sub>2</sub> Nanotube Layers. <i>Chemistry - an Asian Journal</i> , 2016, 11, 789-797.	1.7	34
7420	Plasmon-Induced Broadband Light-Harvesting for Dye-Sensitized Solar Cells Using a Mixture of Gold Nanocrystals. <i>ChemSusChem</i> , 2016, 9, 813-819.	3.6	31
7421	Role of Oxygen Defects on the Photocatalytic Properties of Mg-Doped Mesoporous Ta <sub>3</sub> N <sub>5</sub> . <i>ChemSusChem</i> , 2016, 9, 1403-1412.	3.6	78
7422	A greener procedure for the synthesis of [Bu <sub>4</sub> N] <sub>2</sub> -cis-[Ru(4-carboxy-4'-carboxylate-2,2'-bipyridine) <sub>2</sub> (NCS) <sub>2</sub> ] (N719), a benchmark dye for DSSC applications. <i>RSC Advances</i> , 2016, 6, 55768-55777.		
7423	Tailoring of nanoporous TiO <sub>2</sub> spheres with 100–200 nm sizes for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 325, 7-14.	4.0	19
7424	Carbon nanotubes hybrid carbon counter electrode for high efficiency dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 4736-4743.	1.1	15
7425	Optimization of CdSe layer on modified ZnO hierarchical spheres by spin-SILAR for efficient CdS/CdSe co-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 6656-6664.	1.1	4
7426	Electrospun Mo-BiVO <sub>4</sub> for Efficient Photoelectrochemical Water Oxidation: Direct Evidence of Improved Hole Diffusion Length and Charge separation. <i>Electrochimica Acta</i> , 2016, 211, 173-182.	2.6	75
7427	Surface Modification of Polymer Counter Electrode for Low Cost Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016, 210, 880-887.	2.6	12
7428	High-efficiency nanorod-nanosheet arrays sandwich photoelectrode for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13359-13367.	3.8	20
7429	Resonant Two-Photon Photoemission from Ti 3d Defect States of TiO <sub>2</sub> (110) Revisited. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12959-12966.	1.5	26
7430	Heterodimerization at the dye sensitized TiO <sub>2</sub> surface: an efficient strategy toward quick removal of water contaminants. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 920-927.	1.6	4

#	ARTICLE	IF	CITATIONS
7431	Stable hydrogen generation from Ni- and Co-based co-catalysts in supported CdS PEC cell. Dalton Transactions, 2016, 45, 11120-11128.	1.6	26
7432	Suppression of charge recombination by application of Cu <sub>2</sub> ZnSnS <sub>4</sub> -graphene counter electrode to thin dye-sensitized solar cells. Science Bulletin, 2016, 61, 1221-1230.	4.3	7
7433	Preparation of three-dimensional interconnected mesoporous anatase TiO <sub>2</sub> -SiO <sub>2</sub> nanocomposites with high photocatalytic activities. Chinese Journal of Catalysis, 2016, 37, 846-854.	6.9	8
7434	Novel pyran based dyes for application in dye sensitized solar cells. Dyes and Pigments, 2016, 133, 395-405.	2.0	21
7435	Pathway of Photocatalytic Oxygen Evolution on Aqueous TiO <sub>2</sub> Anatase and Insights into the Different Activities of Anatase and Rutile. ACS Catalysis, 2016, 6, 4769-4774.	5.5	76
7436	Facet-dependent trapping and dynamics of excess electrons at anatase TiO <sub>2</sub> surfaces and aqueous interfaces. Nature Materials, 2016, 15, 1107-1112.	13.3	303
7437	Cobalt Selenide Nanostructures: An Efficient Bifunctional Catalyst with High Current Density at Low Coverage. ACS Applied Materials & Interfaces, 2016, 8, 17292-17302.	4.0	156
7438	Performance optimization in dye-sensitized solar cells with $\hat{\text{I}}^2\text{-NaYF}_4\text{:Yb}^{3+},\text{Er}^{3+}\text{@SiO}_2\text{@TiO}_2$ mesoporous microspheres as multi-functional photoanodes. Electrochimica Acta, 2016, 211, 92-100.	2.6	18
7439	Remarkable Enhancement of Photocatalytic Water Oxidation in N <sub>2</sub> /Ar Plasma Treated, Mesoporous TiO <sub>2</sub> Films. Journal of Physical Chemistry C, 2016, 120, 14069-14081.	1.5	46
7440	Multiworking Electrode Flexible Fiber-Type Quantum Dot-Sensitized Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 952-959.	1.5	8
7441	Insertion of a naphthalenediimide unit in a metal-free donor-acceptor organic sensitizer for efficiency enhancement of a dye-sensitized solar cell. Dyes and Pigments, 2016, 134, 83-90.	2.0	21
7442	Synthesis and characterization of TiO <sub>2</sub> thin films for DSSC prototype. Materials Today: Proceedings, 2016, 3, 2052-2061.	0.9	18
7443	Size-Dependent Ultrafast Charge Carrier Dynamics of WO <sub>3</sub> for Photoelectrochemical Cells. Journal of Physical Chemistry C, 2016, 120, 14926-14933.	1.5	35
7444	Niobium/Vanadium doped TiO <sub>2</sub> multilayered sol-gel films: Structure, surface chemistry and optical properties. Ceramics International, 2016, 42, 13805-13811.	2.3	10
7445	In situ chemical vapor deposition growth of carbon nanotubes on hollow CoFe <sub>2</sub> O <sub>4</sub> as an efficient and low cost counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2016, 325, 417-426.	4.0	53
7446	Constructing n-ZnO@Au heterogeneous nanorod arrays on p-Si substrate as efficient photocathode for water splitting. Nanotechnology, 2016, 27, 305403.	1.3	24
7447	Atomic scale characterization and surface chemistry of metal modified titanate nanotubes and nanowires. Surface Science Reports, 2016, 71, 473-546.	3.8	96
7448	Reactive wetting properties of TiO <sub>2</sub> nanoparticles predicted by ab initio molecular dynamics simulations. Nanoscale, 2016, 8, 13385-13398.	2.8	18

#	ARTICLE	IF	CITATIONS
7449	Observation of Space Charge Dynamics Inside an All Oxide Based Solar Cell. ACS Nano, 2016, 10, 6139-6146.	7.3	16
7451	Hierarchical three-dimensional branched hematite nanorod arrays with enhanced mid-visible light absorption for high-efficiency photoelectrochemical water splitting. Nanoscale, 2016, 8, 12697-12701.	2.8	41
7452	A graphene oxide incorporated TiO <sub>2</sub> photoanode for high efficiency quasi solid state dye sensitized solar cells based on a poly-vinyl alcohol gel electrolyte. RSC Advances, 2016, 6, 55406-55414.	1.7	28
7453	Effect of 10 MeV energy of electron irradiation on Fe <sup>2+</sup> doped ZnSe nanorods and their modified properties. Ionics, 2016, 22, 1451-1460.	1.2	15
7454	Combining Linear-Scaling DFT with Subsystem DFT in Born-Oppenheimer and Ehrenfest Molecular Dynamics Simulations: From Molecules to a Virus in Solution. Journal of Chemical Theory and Computation, 2016, 12, 3214-3227.	2.3	59
7455	Enlarging {110} exposed facets of anatase TiO <sub>2</sub> by the synergistic action of capping agents. CrystEngComm, 2016, 18, 5074-5078.	1.3	12
7456	Enhanced light harvesting of TiO <sub>2</sub> /La <sub>0.95</sub> Tb <sub>0.05</sub> PO <sub>4</sub> photoanodes for dye-sensitized solar cells. Materials Chemistry and Physics, 2016, 173, 340-346.	2.0	6
7457	Synthesis of cyanovinyl thiophene with different acceptor containing organic dyes towards high efficient dye sensitized solar cells. Dyes and Pigments, 2016, 133, 222-231.	2.0	19
7458	Efficient solar-to-chemical conversion with chlorine photoanode. Electrochemistry Communications, 2016, 67, 69-72.	2.3	3
7459	Single Photogenerated Bubble at Gas-Evolving TiO <sub>2</sub> Nanorod-Array Electrode. Electrochimica Acta, 2016, 202, 175-185.	2.6	27
7460	Surface chemistry of Au/TiO <sub>2</sub> : Thermally and photolytically activated reactions. Surface Science Reports, 2016, 71, 77-271.	3.8	106
7461	Plasmonic nanofocusing "grey holes for light. Advances in Physics: X, 2016, 1, 297-330.	1.5	23
7462	Strategic PbS quantum dot-based multilayered photoanodes for high efficiency quantum dot-sensitized solar cells. Electrochimica Acta, 2016, 211, 644-651.	2.6	41
7463	Molecular Design of Carbazole-based Dyes and the Influence of Alkyl Substituent on the Performance of Dye-Sensitized Solar Cells. Molecular Crystals and Liquid Crystals, 2016, 629, 29-43.	0.4	2
7464	Influence of anodization time on the surface modifications on Fe <sub>2</sub> O <sub>3</sub> photoanode upon anodization. Journal of Materials Research, 2016, 31, 1580-1587.	1.2	12
7465	Self-sacrificial template method to MnO <sub>2</sub> microspheres as highly efficient electrocatalyst for oxygen evolution reaction. Journal of Solid State Electrochemistry, 2016, 20, 2907-2912.	1.2	15
7466	Structure of the Photo-catalytically Active Surface of SrTiO <sub>3</sub> . Journal of the American Chemical Society, 2016, 138, 7816-7819.	6.6	64
7467	Nitrogen-doped carbon microspheres counter electrodes for dye-sensitized solar cells by microwave assisted method. RSC Advances, 2016, 6, 58064-58068.	1.7	16

#	ARTICLE	IF	CITATIONS
7468	Design and synthesis of new ruthenium complex for dye-sensitized solar cells. RSC Advances, 2016, 6, 57872-57879.	1.7	10
7469	Heterogeneous Oxygen-Containing Species Formed via Oxygen or Water Dissociative Adsorption onto a Gallium Phosphide Surface. Topics in Catalysis, 2016, 59, 564-573.	1.3	20
7470	Preparation of SnS/CdS Co-sensitized TiO <sub>2</sub> Photoelectrodes for Quantum Dots Sensitized Solar Cells. Journal of Electronic Materials, 2016, 45, 4952-4957.	1.0	14
7471	Kinetics versus Charge Separation: Improving the Activity of Stoichiometric and Non-Stoichiometric Hematite Photoanodes Using a Molecular Iridium Water Oxidation Catalyst. Journal of Physical Chemistry C, 2016, 120, 12999-13012.	1.5	32
7472	Electronic Properties of Pure and Fe-Doped $\text{Ni}(\text{OH})_2$ : New Insights Using Density Functional Theory with a Cluster Approach. Journal of Physical Chemistry C, 2016, 120, 12344-12350.	1.5	18
7473	Influence of Different Defects in Vertically Aligned Carbon Nanotubes on TiO <sub>2</sub> Nanoparticle Formation through Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2016, 8, 16444-16450.	4.0	22
7474	Modeling and Simulations in Photoelectrochemical Water Oxidation: From Single Level to Multiscale Modeling. ChemSusChem, 2016, 9, 1223-1242.	3.6	87
7475	Human Urine-Fueled Light-Driven NADH Regeneration for Redox Biocatalysis. ChemSusChem, 2016, 9, 1559-1564.	3.6	39
7476	Dual-emissive polydiphenylsilane nanocomposite: effect of $\text{Ni}(\text{bpy})_2^{2+}$ -bis(4-hydroxysalicylidene)-1,2-phenylenediamine-Zn complex. Polymers for Advanced Technologies, 2016, 27, 115-124.	1.6	3
7477	Rigorous substrate cleaning process for reproducible thin film hematite ( $\text{Fe}_2\text{O}_3$ ) photoanodes. Journal of Materials Research, 2016, 31, 1565-1573.	1.2	28
7478	Saturation magnetization and band gap tuning in BiFeO <sub>3</sub> nanoparticles via co-substitution of Gd and Mn. Journal of Alloys and Compounds, 2016, 687, 701-706.	2.8	72
7479	Ruthenium nanofibers as efficient counter electrodes for dye-sensitized solar cells. Journal of Electroanalytical Chemistry, 2016, 775, 280-285.	1.9	16
7480	Ceria-Coated Gold Nanorods for Plasmon-Enhanced Near-Infrared Photocatalytic and Photoelectrochemical Performances. Journal of Physical Chemistry C, 2016, 120, 14805-14812.	1.5	30
7481	Increased efficiency of dye-sensitized solar cells by addition of rare earth oxide microparticles into a titania acceptor. Electrochimica Acta, 2016, 211, 918-925.	2.6	13
7482	Can nitro groups really anchor onto TiO <sub>2</sub> ? Case study of dye-to-TiO <sub>2</sub> adsorption using azo dyes with NO <sub>2</sub> substituents. Physical Chemistry Chemical Physics, 2016, 18, 19062-19069.	1.3	28
7483	Improved catalytic activity of Pt/rGO counter electrode in In <sub>2</sub> O <sub>3</sub> -based DSSC. Ionics, 2016, 22, 2487-2497.	1.2	8
7484	Effect of titanium dioxide blocking layer deposited by cathodic arc plasma on the energy conversion efficiency of dye-sensitized solar cells. Surface and Coatings Technology, 2016, 306, 257-261.	2.2	4
7485	Porphyryns with intense absorptivity: highly efficient sensitizers with a photovoltaic efficiency of up to 10.7% without a cosensitizer and a coabsorbate. Journal of Materials Chemistry A, 2016, 4, 11829-11834.	5.2	56

#	ARTICLE	IF	CITATIONS
7486	DISPERSION IN IMPEDANCE SPECTRA OF ISOTYPE CdOâ€“ZnO THIN FILM HETEROSTRUCTURE ON APPLIED DC BIAS. <i>Surface Review and Letters</i> , 2016, 23, 1650062.	0.5	5
7488	2D Transitionâ€Metalâ€Dichalcogenideâ€Nanosheetâ€Based Composites for Photocatalytic and Electrocatalytic Hydrogen Evolution Reactions. <i>Advanced Materials</i> , 2016, 28, 1917-1933.	11.1	1,214
7489	Degradation of refractory pollutants under solar light irradiation by a robust and self-protected ZnO/CdS/TiO <sub>2</sub> hybrid photocatalyst. <i>Water Research</i> , 2016, 92, 78-86.	5.3	86
7490	Surface-Sensitive Spectro-electrochemistry Using Ultrafast 2D ATR IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2883-2892.	1.5	58
7491	Bilayer quantum dot-decorated mesoscopic inverse opals for high volumetric photoelectrochemical water splitting efficiency. <i>RSC Advances</i> , 2016, 6, 8756-8762.	1.7	9
7492	Photogalvanics: A sustainable and promising device for solar energy conversion and storage. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 662-691.	8.2	16
7493	Indiumâ€Tinâ€Oxide Nanowire Array Based CdSe/CdS/TiO <sub>2</sub> One-Dimensional Heterojunction Photoelectrode for Enhanced Solar Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1161-1168.	3.2	33
7494	Photoelectrochemical water splitting using WO <sub>3</sub> photoanodes: the substrate and temperature roles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5232-5243.	1.3	120
7495	Fabrication of TiO <sub>2</sub> @ZnAl-layered double hydroxide based anode material for dye-sensitized solar cell. <i>RSC Advances</i> , 2016, 6, 10912-10918.	1.7	34
7496	Preparation of CdS/TiO <sub>2</sub> nanotube arrays and the enhanced photocatalytic property. <i>Ceramics International</i> , 2016, 42, 7192-7202.	2.3	56
7497	Highly efficient NaTaO <sub>3</sub> for visible light photocatalysis predicted from first principles. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 97-102.	3.0	17
7498	Vapor-Phase Atomic Layer Deposition of Nickel Sulfide and Its Application for Efficient Oxygen-Evolution Electrocatalysis. <i>Chemistry of Materials</i> , 2016, 28, 1155-1164.	3.2	144
7499	Sensitization of p-GaP with Monocationic Dyes: The Effect of Dye Excited-State Lifetime on Hole Injection Efficiencies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3145-3155.	1.5	20
7500	The direct observation of charge separation dynamics in CdSe quantum dots/cobaloxime hybrids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4300-4303.	1.3	7
7501	An electrochemical method to enhance the performance of metal oxides for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2849-2855.	5.2	114
7502	Significantly enhanced photocurrent for water oxidation in monolithic Mo:BiVO <sub>4</sub> /SnO <sub>2</sub> /Si by thermally increasing the minority carrier diffusion length. <i>Energy and Environmental Science</i> , 2016, 9, 2044-2052.	15.6	105
7503	A study on the variation of dye-sensitized solar cell parameters under $\beta$ irradiation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 631-637.	0.7	4
7504	g-C <sub>3</sub> N <sub>4</sub> /conductive carbon black composite as Pt-free counter electrode in dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2016, 76, 454-458.	2.7	34

#	ARTICLE	IF	CITATIONS
7505	Spectroscopic signatures of ligand field states in {Ru <sup>II</sup> (imine)} complexes. Dalton Transactions, 2016, 45, 5464-5475.	1.6	27
7506	Improving the photovoltaic performance of dye sensitized solar cells based on a hierarchical structure with up/down converters. RSC Advances, 2016, 6, 11880-11887.	1.7	15
7507	Theoretical insight into electronic structure and optoelectronic properties of heteroleptic Cu(I)-based complexes for dye-sensitized solar cells. Materials Chemistry and Physics, 2016, 173, 139-145.	2.0	19
7508	The Electronic Structure and Photoinduced Electron Transfer Rate of CdSe Quantum Dots on Single Crystal Rutile TiO <sub>2</sub> : Dependence on the Crystal Orientation of the Substrate. Journal of Physical Chemistry C, 2016, 120, 2047-2057.	1.5	22
7510	Surface plasmon resonance enhanced multi-shell-modified upconversion NaYF <sub>4</sub> :Yb <sup>3+</sup> , Er <sup>3+</sup> @SiO <sub>2</sub> @Au@TiO <sub>2</sub> crystallites for dye-sensitized solar cells. Journal of Power Sources, 2016, 307, 468-473.	4.0	58
7511	Accurate Ionization Potentials and Electron Affinities of Acceptor Molecules I. Reference Data at the CCSD(T) Complete Basis Set Limit. Journal of Chemical Theory and Computation, 2016, 12, 595-604.	2.3	69
7512	High-performance dye-sensitized solar cells based on Ag-doped SnS <sub>2</sub> counter electrodes. Journal of Materials Chemistry A, 2016, 4, 1908-1914.	5.2	107
7513	Dye-sensitized solar cells based on two-dimensional TiO <sub>2</sub> nanosheets as the scattering layers. Research on Chemical Intermediates, 2016, 42, 5653-5664.	1.3	5
7514	Au and Pt nanoparticle supported catalysts tailored for H <sub>2</sub> production: From models to powder catalysts. Applied Catalysis A: General, 2016, 518, 18-47.	2.2	30
7515	Photoelectrochemical cell for unassisted overall solar water splitting using a BiVO <sub>4</sub> photoanode and Si nanoarray photocathode. RSC Advances, 2016, 6, 9905-9910.	1.7	64
7516	Template-free method for synthesizing sponge-like graphitic carbon nitride with a large surface area and outstanding nitrogen photofixation ability induced by nitrogen vacancies. Ceramics International, 2016, 42, 6985-6992.	2.3	58
7517	Investigations on bubble growth mechanism during photoelectrochemical and electrochemical conversions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 505, 86-92.	2.3	30
7518	Electrochemical characterisations of ZnO nanowires for dye-sensitised solar cells. Materials and Design, 2016, 95, 481-485.	3.3	13
7519	A 3D triple-deck photoanode with a strengthened structure integrity: enhanced photoelectrochemical water oxidation. Nanoscale, 2016, 8, 3474-3481.	2.8	29
7520	Electrospun carbon nano-felt derived from alkali lignin for cost-effective counter electrodes of dye-sensitized solar cells. RSC Advances, 2016, 6, 11481-11487.	1.7	45
7521	Hierarchically assembled microspheres consisting of nanosheets of highly exposed (001)-facets TiO <sub>2</sub> for dye-sensitized solar cells. RSC Advances, 2016, 6, 14178-14191.	1.7	26
7522	Photocatalytic water splitting for solar hydrogen generation: fundamentals and recent advancements. International Reviews in Physical Chemistry, 2016, 35, 1-36.	0.9	288
7523	Tuning optical absorption in pyran derivatives for DSSC. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 79-89.	2.0	24



#	ARTICLE	IF	CITATIONS
7524	Phosphonate-Derivatized Porphyrins for Photoelectrochemical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 3853-3860.	4.0	29
7525	Covalent Immobilization of a Molecular Catalyst on Cu <sub>2</sub> O Photocathodes for CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 1938-1946.	6.6	272
7526	Dye functionalized carbon nanotubes for photoelectrochemical water splitting – role of inner tubes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2473-2483.	5.2	27
7527	Promoting Photochemical Water Oxidation with Metallic Band Structures. <i>Journal of the American Chemical Society</i> , 2016, 138, 1527-1535.	6.6	32
7528	Investigation of the role of Mn dopant in CdS quantum dot sensitized solar cell. <i>Electrochimica Acta</i> , 2016, 191, 62-69.	2.6	49
7529	Accurate Ionization Potentials and Electron Affinities of Acceptor Molecules IV: Electron-Propagator Methods. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 627-637.	2.3	56
7530	Thickness-Dependent Flat Band Potential of Anatase TiO <sub>2</sub> (001) Epitaxial Films on Nb:SrTiO <sub>3</sub> (001) Investigated by UHV-Electrochemistry Approach. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1472-1477.	1.5	18
7531	Deconstructing the Heterogeneity of Surface-Bound Catalysts: Rutile Surface Structure Affects Molecular Properties. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1515-1522.	1.5	21
7532	Bandgap-designed TiO <sub>2</sub> /SnO <sub>2</sub> hollow hierarchical nanofibers: Synthesis, properties, and their photocatalytic mechanism. <i>Current Applied Physics</i> , 2016, 16, 251-260.	1.1	47
7533	Nanotube-confinement induced size-controllable g-C <sub>3</sub> N <sub>4</sub> quantum dots modified single-crystalline TiO <sub>2</sub> nanotube arrays for stable synergetic photoelectrocatalysis. <i>Nano Energy</i> , 2016, 19, 446-454.	8.2	329
7534	Dye-sensitized solar cells employing polymers. <i>Progress in Polymer Science</i> , 2016, 59, 1-40.	11.8	136
7535	Electrospraying-assisted rapid dye molecule uptake on the surfaces of TiO <sub>2</sub> nanoparticles for speeding up dye-sensitized solar cell fabrication. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 411-417.	3.0	8
7536	Tantalum (oxy)nitride based photoanodes for solar-driven water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2783-2800.	5.2	120
7537	Ultrafast and fast charge separation processes in real dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016, 26, 1-30.	5.6	92
7538	Synthesis of Cu <sub>2</sub> O Octadecahedron/TiO <sub>2</sub> Quantum Dot Heterojunctions with High Visible Light Photocatalytic Activity and High Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 91-101.	4.0	132
7539	Triboelectric generator composed of bulk poly(vinylidene fluoride) and polyethylene polymers for mechanical energy conversion. <i>RSC Advances</i> , 2016, 6, 910-917.	1.7	16
7540	Glucose oxidation over ultrathin carbon-coated perovskite modified TiO <sub>2</sub> nanotube photonic crystals with high-efficiency electron generation and transfer for photoelectrocatalytic hydrogen production. <i>Green Chemistry</i> , 2016, 18, 2424-2434.	4.6	48
7541	Novel CdS nanorods/g-C <sub>3</sub> N <sub>4</sub> nanosheets 1-D/2-D hybrid architectures: an in situ growth route and excellent visible light photoelectrochemical performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2904-2913.	1.1	16

#	ARTICLE	IF	CITATIONS
7542	Solar-powered electrochemical energy storage: an alternative to solar fuels. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2766-2782.	5.2	109
7543	Synthesis and optoelectronic properties of chemically modified bi-fluorenylidenes. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3798-3808.	2.7	15
7544	Solvation effect promoted formation of p-n junction between WO <sub>3</sub> and FeOOH: A high performance photoanode for water oxidation. <i>Journal of Catalysis</i> , 2016, 333, 200-206.	3.1	86
7545	Carbon quantum dots decorated Cu <sub>2</sub> S nanowire arrays for enhanced photoelectrochemical performance. <i>Nanoscale</i> , 2016, 8, 8559-8567.	2.8	62
7546	First principles study of organic sensitizers for dye sensitized solar cells: effects of anchoring groups on optoelectronic properties and dye aggregation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1071-1081.	1.3	39
7547	Metal oxide top layer as an interfacial promoter on a ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> heterostructure photoanode for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 337-346.	10.8	52
7548	Highly efficient photoelectrochemical water splitting by a hybrid tandem perovskite solar cell. <i>Chemical Communications</i> , 2016, 52, 5824-5827.	2.2	44
7549	A simple strategy to the side chain functionalization on the quinoxaline unit for efficient polymer solar cells. <i>Chemical Communications</i> , 2016, 52, 6881-6884.	2.2	79
7550	Well-dispersed NiS nanoparticles grown on a functionalized CoS nanosphere surface as a high performance counter electrode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 29003-29019.	1.7	20
7551	Improved photocatalytic activity of RGO/MoS <sub>2</sub> nanosheets decorated on TiO <sub>2</sub> nanoparticles. <i>RSC Advances</i> , 2016, 6, 31661-31667.	1.7	43
7552	Luminescent multifunctional hybrids obtained by grafting of ruthenium complexes on mesoporous silica. <i>Materials Letters</i> , 2016, 174, 1-5.	1.3	6
7553	Tailoring Charge Recombination in Photoelectrodes Using Oxide Nanostructures. <i>Nano Letters</i> , 2016, 16, 2381-2386.	4.5	18
7554	Preparation and photocatalytic degradation performance of Ag <sub>3</sub> PO <sub>4</sub> with a two-step approach. <i>Applied Surface Science</i> , 2016, 372, 30-35.	3.1	17
7555	From Molecular Design to Co-sensitization; High performance indole based photosensitizers for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 198, 10-21.	2.6	36
7556	New indole based co-sensitizers for dye sensitized solar cells exceeding 10% efficiency. <i>RSC Advances</i> , 2016, 6, 30205-30216.	1.7	34
7557	Structural, morphological, and optoelectrical characterization of Bi <sub>2</sub> S <sub>3</sub> thin films grown by co-evaporation. <i>Modern Physics Letters B</i> , 2016, 30, 1650066.	1.0	4
7558	Hexagonal pillar structure of heteroepitaxial titania-vanadia nanocrystal films for high performance in thermochromic and photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9088-9101.	1.3	6
7559	Chemically Immobilized Triazine Based Cu <sup>II</sup> S <sub>3</sub> C <sub>3</sub> N <sub>3</sub> Metallopolymer on Copper as a Photocathode for Photoelectrochemical Hydrogen Evolution. <i>Journal of the Electrochemical Society</i> , 2016, 163, H402-H409.	1.3	11

#	ARTICLE	IF	CITATIONS
7560	Structural, Optical, and Electrical Properties of Applied Amorphized and Polycrystalline Sb <sub>2</sub> S <sub>3</sub> Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1460-1468.	1.1	14
7561	High performance perovskite solar cells with functional highly porous TiO <sub>2</sub> thin films constructed in ambient air. Solar Energy Materials and Solar Cells, 2016, 151, 36-43.	3.0	31
7562	Photoelectrochemical oxidation of water using La(Ta,Nb)O <sub>2</sub> N modified electrodes. International Journal of Hydrogen Energy, 2016, 41, 11644-11652.	3.8	26
7563	Near-Infrared Colloidal Quantum Dots for Efficient and Durable Photoelectrochemical Solar-Driven Hydrogen Production. Advanced Science, 2016, 3, 1500345.	5.6	76
7564	Extremely stable bare hematite photoanode for solar water splitting. Nano Energy, 2016, 23, 70-79.	8.2	171
7565	Synthesis of fluorinated block copolymer electrolyte containing quaternary ammonium base. Journal of Materials Science, 2016, 51, 5834-5842.	1.7	6
7566	Electrodeposited Ti-doped hematite photoanodes and their employment for photoelectrocatalytic hydrogen production in the presence of ethanol. Chemical Engineering Journal, 2016, 295, 288-294.	6.6	35
7567	Single-nanowire photoelectrochemistry. Nature Nanotechnology, 2016, 11, 609-612.	15.6	111
7568	Gold nanoparticles as an ultrathin scattering layer for efficient dye-sensitized solar cells. Journal of Materials Chemistry C, 2016, 4, 3614-3620.	2.7	25
7569	Oxide vacancies enhanced visible active photocatalytic W <sub>19</sub> O <sub>55</sub> NMRs via strong adsorption. RSC Advances, 2016, 6, 8061-8069.	1.7	26
7570	Aging Precursor Solution in High Humidity Remarkably Promoted Grain Growth in Cu <sub>2</sub> ZnSn <sub>4</sub> Films. ACS Applied Materials & Interfaces, 2016, 8, 5432-5438.	4.0	34
7571	Graphene-linked graphitic carbon nitride/TiO <sub>2</sub> nanowire arrays heterojunction for efficient solar-driven water splitting. Journal of Applied Electrochemistry, 2016, 46, 807-817.	1.5	19
7572	Temperature influence on microstructure and optical properties of TiO <sub>2</sub> -Au thin films. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
7573	TiO <sub>2</sub> nanofiber/nanoparticles composite photoelectrodes with improved light harvesting ability for dye-sensitized solar cells. Electrochimica Acta, 2016, 193, 166-171.	2.6	26
7574	Transient behaviors of ZnO thin films on a transparent, flexible polyethylene terephthalate substrate. Thin Solid Films, 2016, 603, 160-164.	0.8	9
7575	Energy transfer in plasmonic photocatalytic composites. Light: Science and Applications, 2016, 5, e16017-e16017.	7.7	462
7576	Synthesis and characterization of GdVO <sub>4</sub> :Dy <sup>3+</sup> nanosheets as down converter: application in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 4447-4456.	1.1	7
7577	Conducting Polymer-Based Catalysts. Journal of the American Chemical Society, 2016, 138, 2868-2876.	6.6	165

#	ARTICLE	IF	CITATIONS
7578	Molecular Structure Controlled Transitions between Free-Charge Generation and Trap Formation in a Conjugated Copolymer Series. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4189-4198.	1.5	9
7579	Synthesis of (CdZn)Se thin films by a facile aqueous phase route and their photoelectrochemical performance for solar cell application. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5867-5877.	1.1	7
7580	Spectroscopy and Chemical Bonding in Transition Metal Complexes. <i>Structure and Bonding</i> , 2016, , 291-312.	1.0	24
7581	A light-scattering co-adsorbent for performance improvement of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 194, 67-73.	2.6	11
7582	Photosensitization of Natural and Synthetic SnO <sub>2</sub> Single Crystals with Dyes and Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15735-15742.	1.5	9
7583	Bonding and Electron Energy-Level Alignment at Metal/TiO <sub>2</sub> Interfaces: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5549-5556.	1.5	45
7584	Multicomponent syntheses of functional chromophores. <i>Chemical Society Reviews</i> , 2016, 45, 2825-2846.	18.7	242
7585	Pt-sputtering-like NiCo <sub>2</sub> S <sub>4</sub> counter electrode for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016, 192, 521-528.	2.6	46
7586	Efficient ternary cobalt spinel counter electrodes for quantum-dot sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 312, 93-100.	4.0	37
7587	Thoroughly mesoporous TiO <sub>2</sub> nanotubes prepared by a foaming agent-assisted electrospun template for photocatalytic applications. <i>RSC Advances</i> , 2016, 6, 21043-21047.	1.7	8
7588	High-efficiency counter electrodes using graphene hybrid with a macrocyclic nickel complex for dye-sensitized solar cells. <i>Organic Electronics</i> , 2016, 31, 207-216.	1.4	26
7589	Two-dimensional layered MoS <sub>2</sub> : rational design, properties and electrochemical applications. <i>Energy and Environmental Science</i> , 2016, 9, 1190-1209.	15.6	532
7590	Synergistic carbon nanotube aerogel @ Pt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3238-3244.	5.2	35
7591	Enhanced photovoltaic properties of dye-sensitized solar cell based on ultrathin 2D TiO <sub>2</sub> nanostructures. <i>Applied Surface Science</i> , 2016, 368, 403-408.	3.1	25
7592	Novel porphyrin-preparation, characterization, and applications in solar energy conversion. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6885-6892.	1.3	44
7593	Towards rational catalyst design: a general optimization framework. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150078.	1.6	22
7594	Nanostructured Ternary FeCrAl Oxide Photocathodes for Water Photoelectrolysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 1860-1867.	6.6	11
7595	Hydrogenated blue titania with high solar absorption and greatly improved photocatalysis. <i>Nanoscale</i> , 2016, 8, 4705-4712.	2.8	86

#	ARTICLE	IF	CITATIONS
7596	Facile synthesis of novel blue light and large Stoke shift emitting tetradentate polyazines based on imidazo[1,5-a]pyridine. <i>Dyes and Pigments</i> , 2016, 128, 96-100.	2.0	37
7597	Graphene-based materials with tailored nanostructures for energy conversion and storage. <i>Materials Science and Engineering Reports</i> , 2016, 102, 1-72.	14.8	221
7598	Enhanced performance of reversely transferred, doubly open-ended TiO <sub>2</sub> nanotube arrays for front-illuminated dye-sensitized solar cells. <i>Journal of the Korean Physical Society</i> , 2016, 68, 296-301.	0.3	0
7599	Silica supported TiO <sub>2</sub> nanostructures for highly efficient photocatalytic application under visible light irradiation. <i>Materials Research Bulletin</i> , 2016, 76, 353-357.	2.7	37
7600	Synthesis of Nanostructured BaTaO <sub>2</sub> N Thin Films as Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15758-15764.	1.5	68
7601	Copper( <i>scp</i> ) tungstate nanoflake array films: sacrificial template synthesis, hydrogen treatment, and their application as photoanodes in solar water splitting. <i>Nanoscale</i> , 2016, 8, 5892-5901.	2.8	78
7602	Cation ordering/disordering effects upon photocatalytic activity of CrNbO <sub>4</sub> , CrTaO <sub>4</sub> , Sr <sub>2</sub> CrNbO <sub>6</sub> and Sr <sub>2</sub> CrTaO <sub>6</sub> . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1550-1558.	3.8	30
7603	Design of BAs-AlN monolayered honeycomb heterojunction structures: A first-principles study. <i>Applied Surface Science</i> , 2016, 368, 191-197.	3.1	4
7604	Photovoltaic performances of Cu <sup>2+</sup> x Te sensitizer based on undoped and indium <sup>3+</sup> -doped TiO <sub>2</sub> photoelectrodes and assembled counter electrodes. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 222-228.	5.0	9
7605	PbS Nanoparticle Sensitized ZnO Nanowire Arrays to Enhance Photocurrent for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4183-4188.	1.5	33
7606	Coherent Control of Photocurrent in a Strongly Scattering Photoelectrochemical System. <i>ACS Photonics</i> , 2016, 3, 449-455.	3.2	26
7607	Tuning the hydrogen evolution activity of MS <sub>2</sub> (M = Mo or Nb) monolayers by strain engineering. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9388-9395.	1.3	60
7608	Nano-scale polar/nonpolar oxide heterostructures for photocatalysis. <i>Nanoscale</i> , 2016, 8, 6057-6063.	2.8	14
7609	Rare earth ion doped phosphors for dye-sensitized solar cells applications. <i>RSC Advances</i> , 2016, 6, 17546-17559.	1.7	58
7610	Dye-sensitized solar cells based on P25 nanoparticles/TiO <sub>2</sub> nanotube arrays/hollow TiO <sub>2</sub> boxes three-layer composite film. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5362-5370.	1.1	20
7611	Effect of Al Doping on Performance of CuGaO <sub>2</sub> p-Type Dye-Sensitized Solar Cells. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 59-63.	1.2	16
7612	Photoelectrochemical splitting of natural seawater with $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> /WO <sub>3</sub> nanorod arrays. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4096-4105.	3.8	72
7613	Counter electrodes from conducting polymer intercalated graphene for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 309, 231-237.	4.0	50

#	ARTICLE	IF	CITATIONS
7614	Photoelectrochemical Approach for Water Splitting. Lecture Notes in Energy, 2016, , 249-260.	0.2	5
7615	Influence of Phenylethynylene of Push-Pull Zinc Porphyrins on the Photovoltaic Performance. ACS Applied Materials & Interfaces, 2016, 8, 3418-3427.	4.0	49
7616	Solar Hydrogen Production on Photocatalysis-Electrolysis Hybrid System Using Redox Mediator and Porous Oxide Photoelectrodes. Lecture Notes in Energy, 2016, , 345-365.	0.2	0
7617	Facile synthesis of CuInS <sub>2</sub> nanoparticles using different alcohol amines as solvent. Chemical Physics Letters, 2016, 647, 51-54.	1.2	11
7618	Plasmonic and passivation effects of Au decorated RGO@CdSe nanofilm uplifted by CdSe@ZnO nanorods with photoelectrochemical enhancement. Nano Energy, 2016, 21, 185-197.	8.2	37
7619	Highly efficient moisture-enabled electricity generation from graphene oxide frameworks. Energy and Environmental Science, 2016, 9, 912-916.	15.6	289
7620	A mechanism for the hole-mediated water photooxidation on TiO <sub>2</sub> (100) surfaces. Journal of Physics Condensed Matter, 2016, 28, 074002.	0.7	23
7621	Titanium oxide electron-selective layers for contact passivation of thin-film crystalline silicon solar cells. , 2016, , .		2
7622	Factors influencing the photocatalytic hydroamination of alkynes with anilines catalyzed by supported gold nanoparticles under visible light irradiation. RSC Advances, 2016, 6, 31717-31725.	1.7	9
7623	Facile wet chemical method for fabricating p-type BiOBr/n-type nitrogen doped graphene composites: Efficient visible-excited charge separation, and high-performance photoelectrochemical sensing. Carbon, 2016, 102, 10-17.	5.4	90
7624	Perfluoro anion based binary and ternary ionic liquids as electrolytes for dye-sensitized solar cells. Journal of Power Sources, 2016, 311, 167-174.	4.0	22
7625	Directional Charge Transfer Mediated by Mid-Gap States: A Transient Absorption Spectroscopy Study of CdSe Quantum Dot/Pb <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> Heterostructures. Journal of Physical Chemistry C, 2016, 120, 5221-5232.	1.5	25
7626	Preparation of long persistent phosphor SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> and its application in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 1350-1356.	1.1	25
7627	Dual integration system endowing two-dimensional titanium disulfide with enhanced triiodide reduction performance in dye-sensitized solar cells. Nano Energy, 2016, 22, 59-69.	8.2	65
7628	Study of the photocurrent in a photocatalytic fuel cell for wastewater treatment and the effects of TiO <sub>2</sub> surface morphology to the apportionment of the photocurrent. Electrochimica Acta, 2016, 192, 319-327.	2.6	22
7629	Synthesis of Co <sub>3</sub> O <sub>4</sub> /NiO nanofilms and their enhanced electrochemical performance for supercapacitor application. Applied Surface Science, 2016, 370, 528-535.	3.1	64
7630	Using hematite for photoelectrochemical water splitting: a review of current progress and challenges. Nanoscale Horizons, 2016, 1, 243-267.	4.1	612
7631	High-performance dye-sensitized solar cell using dimensionally controlled titania synthesized at sub-zero temperatures. RSC Advances, 2016, 6, 23459-23466.	1.7	9

#	ARTICLE	IF	CITATIONS
7632	Role of ion bombardment, film thickness and temperature of annealing on PEC activity of very-thin film hematite photoanodes deposited by advanced magnetron sputtering. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11547-11557.	3.8	8
7633	Self-assembly of aligned CuO nanorod arrays using nanoporous anodic alumina template by electrodeposition on Si substrate for IR photodetectors. <i>Sensors and Actuators A: Physical</i> , 2016, 239, 209-219.	2.0	46
7634	Preparation of reduced graphene oxide/meso-TiO <sub>2</sub> /AuNPs ternary composites and their visible-light-induced photocatalytic degradation of methylene blue. <i>Applied Surface Science</i> , 2016, 369, 576-583.	3.1	52
7635	An insight into ion-conduction phenomenon of gold nanocluster ligand based metallo-supramolecular polymers. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4398-4401.	5.2	14
7636	Effect of particle size of La <sub>5</sub> Ti <sub>2</sub> Cu <sub>5</sub> O <sub>7</sub> on photoelectrochemical properties in solar hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4848-4854.	5.2	28
7637	Synthesis of TiO <sub>2</sub> nanoparticles containing Fe, Si, and V using multiple diffusion flames and catalytic oxidation capability of carbon-coated nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	14
7638	Novel organic doped inorganic photosensors. <i>Microelectronic Engineering</i> , 2016, 160, 27-33.	1.1	26
7639	Rational tuning of high-energy visible light absorption for panchromatic small molecules by a two-dimensional conjugation approach. <i>Chemical Science</i> , 2016, 7, 3857-3861.	3.7	25
7640	Theoretical investigation of [Ru(tpy) <sub>2</sub> ] <sup>2+</sup> , [Ru(tpy)(bpy)(H <sub>2</sub> O)] <sup>2+</sup> and [Ru(tpy)(bpy)(Cl)] <sup>+</sup> complexes in acetone revisited: Inclusion of strong spin-orbit couplings to quantum chemistry calculations. <i>Journal of Theoretical and Computational Chemistry</i> , 2016, 15, 1650001.	1.8	1
7641	Hydrogen generation promoted by photocatalytic oxidation of ascorbate and glucose at a cadmium sulfide electrode. <i>Electrochimica Acta</i> , 2016, 198, 40-48.	2.6	20
7642	Photocurrents from photosystem II in a metal oxide hybrid system: Electron transfer pathways. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1497-1505.	0.5	34
7643	Effect of doping <sup>12</sup> -NiOOH with Co on the catalytic oxidation of water: DFT+U calculations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7490-7501.	1.3	32
7644	Strong pyro-catalysis of pyroelectric BiFeO <sub>3</sub> nanoparticles under a room-temperature cold-hot alternation. <i>Nanoscale</i> , 2016, 8, 7343-7350.	2.8	162
7645	Synthesis and characterization of a new series of dibenzofulvene based organic dyes for DSSCs. <i>Dyes and Pigments</i> , 2016, 130, 79-89.	2.0	26
7646	A Player Often Neglected: Electrochemical Comprehensive Analysis of Counter Electrodes for Quantum Dot Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7766-7776.	4.0	15
7647	One-step hydrothermal synthesis of ZnS-CoS microcomposite as low cost counter electrode for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2016, 363, 459-465.	3.1	26
7648	A review and evaluation of photoelectrode coating materials and methods for photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7950-7959.	3.8	71
7649	Highly reproducible, efficient hysteresis-less CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl <sub>x</sub> planar hybrid solar cells without requiring heat-treatment. <i>Nanoscale</i> , 2016, 8, 2554-2560.	2.8	75

#	ARTICLE	IF	CITATIONS
7650	Circular dichroism and absorption in a finite cholesteric liquid crystal layer with an isotropic defect layer inside. <i>Liquid Crystals</i> , 2016, 43, 448-461.	0.9	11
7651	Atomic level understanding of site-specific interactions in Polyaniline/TiO <sub>2</sub> composite. <i>Chemical Physics Letters</i> , 2016, 645, 144-149.	1.2	8
7652	Polymer counter electrode of poly(3,4-ethylenedioxythiophene):Poly(4-styrenesulfonate) containing TiO <sub>2</sub> nano-particles for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 307, 25-30.	4.0	32
7653	An insight toward the photocatalytic activity of S doped 1-D TiO <sub>2</sub> nanorods prepared via novel route: As promising platform for environmental leap. <i>Journal of Molecular Catalysis A</i> , 2016, 412, 78-92.	4.8	52
7654	Thermal enhancement of water affinity on the surface of undoped hematite photoelectrodes. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 395-404.	3.0	12
7655	Benzimidazole-Branched Isomeric Dyes: Effect of Molecular Constitution on Photophysical, Electrochemical, and Photovoltaic Properties. <i>Journal of Organic Chemistry</i> , 2016, 81, 640-653.	1.7	58
7656	Electronic structure and optical properties of Fe-doped SnS <sub>2</sub> from first-principle calculations. <i>RSC Advances</i> , 2016, 6, 3480-3486.	1.7	24
7657	Real-Time TD-DFT with Classical Ion Dynamics: Methodology and Applications. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 466-476.	2.3	55
7658	Revealing the Volcano-Shaped Activity Trend of Triiodide Reduction Reaction: A DFT Study Coupled with Microkinetic Analysis. <i>ACS Catalysis</i> , 2016, 6, 733-741.	5.5	41
7659	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 58-69.	1.3	89
7660	On the dynamical nature of the active center in a single-site photocatalyst visualized by 4D ultrafast electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 503-508.	3.3	37
7661	Photoelectrochemical (PEC) water splitting of BiOI{001} nanosheets synthesized by a simple chemical transformation. <i>Journal of Alloys and Compounds</i> , 2016, 665, 158-164.	2.8	47
7662	Conduction mechanism in mesoporous hematite thin films using low temperature electrical measurements and theoretical electronic band structure calculations. <i>Journal of Alloys and Compounds</i> , 2016, 664, 682-689.	2.8	10
7663	Principles on design and fabrication of nanomaterials as photocatalysts for water-splitting. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 584-601.	8.2	192
7664	Photocatalytic Water Oxidation. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 33-61.	0.4	4
7665	Binary nickel and iron oxide modified Ti-doped hematite photoanode for enhanced photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 873-881.	3.8	15
7666	Graphene oxide-based nanomaterials for efficient photoenergy conversion. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2014-2048.	5.2	73
7667	Water Splitting By Photocatalytic Reduction. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 175-210.	0.4	2



#	ARTICLE	IF	CITATIONS
7668	One-step synthesis of self-supported porous NiSe <sub>2</sub> /Ni hybrid foam: An efficient 3D electrode for hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 20, 29-36.	8.2	279
7669	La <sub>0.65</sub> Sr <sub>0.35</sub> MnO <sub>3</sub> @RGO nanocomposites as an effective counter electrode for dye-sensitized solar cells. <i>Materials Letters</i> , 2016, 164, 609-612.	1.3	26
7670	Counter electrode electrocatalysts from binary Pd-Co alloy nanoparticles for dye-sensitized solar cells. <i>Solar Energy</i> , 2016, 124, 68-75.	2.9	15
7671	The synergistic effect of a well-defined Au@Pt core-shell nanostructure toward photocatalytic hydrogen generation: interface engineering to improve the Schottky barrier and hydrogen-evolved kinetics. <i>Chemical Communications</i> , 2016, 52, 1567-1570.	2.2	52
7672	Key Oxidation Parameters that Influence Photo-Induced Properties and Applications of Anodic Titanium Oxides. <i>Journal of the Electrochemical Society</i> , 2016, 163, H119-H127.	1.3	4
7673	Heterogeneous Photocatalysis. <i>Green Chemistry and Sustainable Technology</i> , 2016, , .	0.4	51
7674	Ultrasmall graphitic carbon nitride quantum dots decorated self-organized TiO <sub>2</sub> nanotube arrays with highly efficient photoelectrochemical activity. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 127-135.	10.8	153
7675	Construction of a Porphyrin-Based Nanohybrid as an Analogue of Chlorophyll Protein Complexes and Its Light-Harvesting Behavior Research. <i>Journal of Physical Chemistry C</i> , 2016, 120, 919-926.	1.5	27
7676	Near-infrared unsymmetrical blue and green squaraine sensitizers. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 287-296.	1.6	19
7677	Mesoporous BaSnO <sub>3</sub> layer based perovskite solar cells. <i>Chemical Communications</i> , 2016, 52, 970-973.	2.2	132
7678	Porphyrins bearing a consolidated anthryl donor with dual functions for efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 200-206.	15.6	54
7679	Photoinduced water oxidation by an organic ligand incorporated into the framework of a stable metal-organic framework. <i>Chemical Science</i> , 2016, 7, 1070-1075.	3.7	76
7680	Multistep electrochemical deposition of hierarchical platinum alloy counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 303, 243-249.	4.0	18
7681	Design of active and stable Co-Mo <sub>x</sub> chalcogels as pH-universal catalysts for the hydrogen evolution reaction. <i>Nature Materials</i> , 2016, 15, 197-203.	13.3	825
7682	Multihierarchical electrodes based on titanate nanotubes and zinc oxide nanorods for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 944-952.	5.2	19
7683	Charge Carrier Transfer in Ta <sub>3</sub> N <sub>5</sub> Photoanodes Prepared by Different Methods for Solar Water Splitting. <i>Australian Journal of Chemistry</i> , 2016, 69, 631.	0.5	2
7684	Dye-sensitized solar cell from a new organic n-type semiconductor/polyaniline composite: insight from impedance spectroscopy. <i>Journal of Materials Chemistry C</i> , 2016, 4, 272-285.	2.7	36
7685	Facile fabrication of core-shell ZnO/Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> nanorods: Enhanced photoluminescence through electron charge. <i>Applied Surface Science</i> , 2016, 361, 95-101.	3.1	6

#	ARTICLE	IF	CITATIONS
7686	Nitrogen and yttrium co-doped mesoporous titania photoanodes applied in DSSCs. <i>Journal of Alloys and Compounds</i> , 2016, 659, 15-22.	2.8	23
7687	Enhanced ethanol sensing performance of mesoporous Sn-doped ZnO. <i>Materials Science in Semiconductor Processing</i> , 2016, 41, 535-543.	1.9	39
7688	An overview on emerging photoelectrochemical self-powered ultraviolet photodetectors. <i>Nanoscale</i> , 2016, 8, 50-73.	2.8	179
7689	Self-powered photoelectrochemical biosensing platform based on Au NPs@ZnO nanorods array. <i>Nano Research</i> , 2016, 9, 344-352.	5.8	92
7690	Unlocking the effects of ancillary electron-donors on light absorption and charge recombination in phenanthrocarbazole dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 519-528.	5.2	31
7691	Well-dispersed ultrafine nitrogen-doped TiO <sub>2</sub> with polyvinylpyrrolidone (PVP) acted as N-source and stabilizer for water splitting. <i>Journal of Energy Chemistry</i> , 2016, 25, 1-9.	7.1	28
7692	Toward efficient photoelectrochemical water-splitting by using screw-like SnO <sub>2</sub> nanostructures as photoanode after being decorated with CdS quantum dots. <i>Nano Energy</i> , 2016, 19, 318-327.	8.2	139
7693	New trimethyl chitosan-based composite nanoparticles as promising antibacterial agents. <i>Drug Development and Industrial Pharmacy</i> , 2016, 42, 720-729.	0.9	13
7694	Morphology, structural and optical properties of iron oxide thin film photoanodes in photoelectrochemical cell: Effect of electrochemical oxidation. <i>Physica B: Condensed Matter</i> , 2016, 480, 91-94.	1.3	12
7695	Hybrid heterostructures based on hematite and highly hydrophilic carbon dots with photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 204-212.	10.8	47
7696	Solar CO <sub>2</sub> Reduction Using Surface-Immobilized Molecular Catalysts. <i>Comments on Inorganic Chemistry</i> , 2016, 36, 38-60.	3.0	23
7697	New Pt(0) Nanoparticles as Highly Active and Reusable Catalysts in the C1-C3 Alcohol Oxidation and the Room Temperature Dehydrocoupling of Dimethylamine-Borane (DMAB). <i>Journal of Cluster Science</i> , 2016, 27, 9-23.	1.7	76
7698	Surfactant free single step synthesis of TiO <sub>2</sub> 3-D microflowers by hydrothermal route and its photoelectrochemical characterizations. <i>Journal of Alloys and Compounds</i> , 2016, 656, 491-499.	2.8	20
7699	Probing electron transfer dynamics of phenosafranine with iodide. <i>Journal of Luminescence</i> , 2016, 169, 245-250.	1.5	1
7700	Fabrication of superior Fe <sup>3+</sup> -Fe <sub>2</sub> O <sub>3</sub> nanorod photoanodes through ex-situ Sn-doping for solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 247-255.	3.0	101
7701	A simplified theoretical guideline for overall water splitting using photocatalyst particles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2894-2908.	5.2	67
7702	Photoelectrochemical water oxidation over fibrous and sponge-like BiVO <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> photoanodes fabricated by spray pyrolysis. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 247-256.	10.8	49
7703	Ta-doped hierarchical TiO <sub>2</sub> spheres for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2016, 656, 45-50.	2.8	16

#	ARTICLE	IF	CITATIONS
7704	Theoretical description of dye regeneration on the TiO <sub>2</sub> "dye" electrolyte model. Computational Materials Science, 2016, 111, 239-246.	1.4	22
7705	Controlled Growth of Ferrihydrite Branched Nanosheet Arrays and Their Transformation to Hematite Nanosheet Arrays for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 3651-3660.	4.0	50
7706	Theoretical design of organic-inorganic hybrids based on hexamolybdate toward high performance dye-sensitized solar cells. Molecular Simulation, 2016, 42, 688-692.	0.9	1
7707	Amorphous NiO electrocatalyst overcoated ZnO nanorod photoanodes for enhanced photoelectrochemical performance. New Journal of Chemistry, 2016, 40, 107-112.	1.4	45
7708	Efficient improvement of photoelectrochemical performance of CdSe thin film deposited via arrested precipitation technique. Materials Letters, 2016, 164, 52-55.	1.3	30
7709	High-surface area co-electrospun TiO <sub>2</sub> nanowires fabricated using shrinkage of polyvinylpyrrolidone for improved photovoltaic performance. Ceramics International, 2016, 42, 1666-1671.	2.3	16
7710	Rose Bengal sensitized bilayered photoanode of nano-crystalline TiO <sub>2</sub> @CeO <sub>2</sub> for dye-sensitized solar cell application. Applied Nanoscience (Switzerland), 2016, 6, 875-881.	1.6	23
7711	Iridium(III) Bis-Pyridine-2-Sulfonamide Complexes as Efficient and Durable Catalysts for Homogeneous Water Oxidation. Inorganic Chemistry, 2016, 55, 518-526.	1.9	39
7712	Trilateral $\pi$ -conjugation extensions of phenothiazine-based dyes enhance the photovoltaic performance of the dye-sensitized solar cells. Dyes and Pigments, 2016, 124, 63-71.	2.0	75
7713	A computational study on Ru complexes with bidentate carboxylate ligands: Insights into the photocurrents of dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 314, 171-177.	2.0	5
7714	Understanding the performance of optofluidic fuel cells: Experimental and theoretical analyses. Chemical Engineering Journal, 2016, 283, 1455-1464.	6.6	17
7715	Elementary photocatalytic chemistry on TiO <sub>2</sub> surfaces. Chemical Society Reviews, 2016, 45, 3701-3730.	18.7	288
7716	A novel sensor for the detection of acetamiprid in vegetables based on its photocatalytic degradation compound. Food Chemistry, 2016, 194, 959-965.	4.2	39
7717	Heterostructures of MoS <sub>2</sub> nanofilms on TiO <sub>2</sub> nanorods used as field emitters. Vacuum, 2016, 123, 17-22.	1.6	8
7718	One-step synthesis of Ti <sup>3+</sup> doped TiO <sub>2</sub> single anatase crystals with enhanced photocatalytic activity towards degradation of methylene blue. Materials Letters, 2016, 162, 138-141.	1.3	34
7719	Interaction of carboxylic acids with rutile TiO <sub>2</sub> (110): IR-investigations of terephthalic and benzoic acid adsorbed on a single crystal substrate. Surface Science, 2016, 643, 117-123.	0.8	39
7720	A photoelectrochemical type self-powered ultraviolet photodetector based on GaN porous films. Materials Letters, 2016, 162, 117-120.	1.3	32
7721	Optical detection of carbon dioxide adsorption on epitaxial CuFe <sub>1-x</sub> Ga <sub>x</sub> O <sub>2</sub> Delafossite film grown by pulse laser deposition. Surface Science, 2016, 648, 23-28.	0.8	8

#	ARTICLE	IF	CITATIONS
7722	Design principles for maximizing photovoltage in metal-oxide-protected water-splitting photoanodes. <i>Nature Materials</i> , 2016, 15, 99-105.	13.3	217
7723	Hierarchical nanostructures of metal oxides for enhancing charge separation and transport in photoelectrochemical solar energy conversion systems. <i>Nanoscale Horizons</i> , 2016, 1, 96-108.	4.1	73
7724	Kinetic analysis of photoelectrochemical water oxidation by mesostructured Co-Pi/Fe <sub>2</sub> O <sub>3</sub> photoanodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2986-2994.	5.2	162
7725	Perspectives on oblique angle deposition of thin films: From fundamentals to devices. <i>Progress in Materials Science</i> , 2016, 76, 59-153.	16.0	564
7726	Solution based CVD of main group materials. <i>Chemical Society Reviews</i> , 2016, 45, 1036-1064.	18.7	141
7727	A facile nonpolar organic solution process of a nanostructured hematite photoanode with high efficiency and stability for water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2821-2825.	5.2	30
7728	Efficiency enhancement by mixed cation effect in polyethylene oxide (PEO)-based dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 193-201.	1.2	21
7729	Improving the stability and selectivity for the oxygen-evolution reaction on semiconducting WO <sub>3</sub> photoelectrodes with a solid-state FeOOH catalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2960-2968.	5.2	55
7730	Facile fabrication of an aptasensor for thrombin based on graphitic carbon nitride/TiO <sub>2</sub> with high visible-light photoelectrochemical activity. <i>Biosensors and Bioelectronics</i> , 2016, 75, 116-122.	5.3	86
7731	Photocharged BiVO <sub>4</sub> photoanodes for improved solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2919-2926.	5.2	203
7732	Photocatalytic water treatment on TiO <sub>2</sub> thin layers. <i>Desalination and Water Treatment</i> , 2016, 57, 11631-11638.	1.0	15
7733	Synthesis, characterization, and dye-sensitized solar cell fabrication using solid biopolymer electrolyte membranes. <i>High Performance Polymers</i> , 2016, 28, 47-54.	0.8	26
7734	Preparation of poly(ether ether ketone)-based composite with high electrical conductivity, good mechanical properties and thermal stability. <i>High Performance Polymers</i> , 2017, 29, 205-210.	0.8	4
7735	Production of electricity from ethanol and ammonium based wastewater via photo-electrochemical process. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9051-9062.	3.8	1
7736	Hydrogen evolution from solar water splitting on nanostructured copper oxide photocathodes. <i>Materials Research Innovations</i> , 2017, 21, 15-20.	1.0	3
7737	Charge transfer between biogenic jarosite derived Fe <sup>3+</sup> and TiO <sub>2</sub> enhances visible light photocatalytic activity of TiO <sub>2</sub> . <i>Journal of Environmental Sciences</i> , 2017, 54, 256-267.	3.2	8
7738	Theoretical analysis of the potential for thermochemical heat storage under Mediterranean climate conditions: Northern Cyprus Case. <i>Future Cities and Environment</i> , 2017, 1, 2.	0.6	3
7739	Self-assembling reduced graphene quantum dots on hematite photoanode for passivating surface states toward significantly improved water splitting. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7158-7165.	3.8	20

#	ARTICLE	IF	CITATIONS
7740	Improved performance of CdSe/CdS/PbS co-sensitized solar cell with double-layered TiO <sub>2</sub> films as photoanode. <i>Optics Communications</i> , 2017, 395, 117-121.	1.0	18
7741	Synthesis and Photovoltaic Properties of the Novel Dye of Branched Chain Polymeric Metal Complexes with Cyclopentadithiophene Derivatives as a Donor. <i>Advances in Polymer Technology</i> , 2017, 36, 269-277.	0.8	0
7742	Low-temperature solid-state preparation of ternary CdS/g-C <sub>3</sub> N <sub>4</sub> /CuS nanocomposites for enhanced visible-light photocatalytic H <sub>2</sub> -production activity. <i>Applied Surface Science</i> , 2017, 391, 432-439.	3.1	200
7743	Toward Efficient Carbon Nitride Photoelectrochemical Cells: Understanding Charge Transfer Processes. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600265.	1.9	24
7744	High Performance MoSe <sub>2</sub> /Mo Counter Electrodes Based- Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, E11-E16.	1.3	20
7745	Mesoporous thin film WO <sub>3</sub> photoanode for photoelectrochemical water splitting: a sol-gel dip coating approach. <i>Sustainable Energy and Fuels</i> , 2017, 1, 145-153.	2.5	65
7746	The impact of long-range electron-hole interaction on the charge separation yield of molecular photocells. <i>Journal of Chemical Physics</i> , 2017, 146, 034103.	1.2	10
7747	Shape-controllable syntheses of ternary Ni-Co-Se alloy hollow microspheres as highly efficient catalytic materials for dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2017, 315, 562-572.	6.6	69
7748	The influence of inserted thiophene into the (I-A'-I)-bridge on photovoltaic performances of dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2017, 191, 121-128.	2.0	19
7749	Charge Transfer-Induced State Filling in CdSe Quantum Dot-Alizarin Complexes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2613-2619.	1.5	14
7750	Effect of sulfur doping on photoelectrochemical performance of hematite. <i>Electrochimica Acta</i> , 2017, 229, 396-403.	2.6	44
7751	Can dye-sensitized solar cells generate electricity in the dark?. <i>Nano Energy</i> , 2017, 33, 266-271.	8.2	40
7752	Photocatalysis versus Photosynthesis: A Sensitivity Analysis of Devices for Solar Energy Conversion and Chemical Transformations. <i>ACS Energy Letters</i> , 2017, 2, 445-453.	8.8	214
7753	Efficient photovoltaic devices based on p-ZnSe/n-CdS core-shell heterojunctions with high open-circuit voltage. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2107-2113.	2.7	12
7754	A microcrystalline cellulose ingrained polydimethylsiloxane triboelectric nanogenerator as a self-powered locomotion detector. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1810-1815.	2.7	60
7755	Facile, room-temperature synthesis of NiSe <sub>2</sub> nanoparticles and its improved performance with graphene in dye-sensitized solar cells. <i>Materials Letters</i> , 2017, 192, 84-87.	1.3	12
7756	A Thin NiFe Hydroxide Film Formed by Stepwise Electrodeposition Strategy with Significantly Improved Catalytic Water Oxidation Efficiency. <i>Advanced Energy Materials</i> , 2017, 7, 1602547.	10.2	183
7757	Fabrication of Ag-Ag <sub>2</sub> O/reduced TiO <sub>2</sub> nanophotocatalyst and its enhanced visible light driven photocatalytic performance for degradation of diclofenac solution. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 136-145.	10.8	132

#	ARTICLE	IF	CITATIONS
7758	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. <i>Journal of the American Chemical Society</i> , 2017, 139, 1675-1683.	6.6	322
7759	Carbon quantum dots as a visible light sensitizer to significantly increase the solar water splitting performance of bismuth vanadate photoanodes. <i>Energy and Environmental Science</i> , 2017, 10, 772-779.	15.6	315
7760	In situ synthesis of CuS nano platelets on nano wall networks of Ni foam and its application as an efficient counter electrode for quantum dot sensitized solar cells. <i>Organic Electronics</i> , 2017, 42, 115-122.	1.4	9
7761	Control of Emission and Coloration in Electrochemical Systems and Its Applications. , 2017, , 175-213.		0
7762	Corrosion-Assisted Self-Growth of Au-Decorated ZnO Corn Silks and Their Photoelectrochemical Enhancement. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3967-3976.	4.0	30
7763	A sustainable freestanding biomechanical energy harvesting smart backpack as a portable-wearable power source. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1488-1493.	2.7	62
7764	Femtosecond Study of Dimolybdenum Paddlewheel Compounds with Amide/Thioamide Ligands: Symmetry, Electronic Structure, and Charge Distribution in the $^1MLCT$ State. <i>Inorganic Chemistry</i> , 2017, 56, 1433-1445.	1.9	7
7765	Function of CN group in organic sensitizers: The first principle study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 227-232.	2.0	4
7766	Photocatalytic back-conversion of CO <sub>2</sub> into oxygenate fuels using an efficient ZnO/CuO/carbon nanotube solar-energy-material: Artificial photosynthesis. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 18, 89-97.	3.3	23
7767	Enhanced photovoltaic performances of the dye-sensitized solar cell by utilizing rare-earth modified tin oxide compact layer. <i>Organic Electronics</i> , 2017, 43, 121-129.	1.4	33
7768	Enhanced photovoltaic performance of polymer-filled nanoporous Si hybrid structures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5121-5126.	1.3	4
7769	Rational design and first-principles studies of phenothiazine-based dyes for dye-sensitized solar cells. <i>Molecular Physics</i> , 2017, 115, 731-742.	0.8	6
7770	A review of materials selection for optimized efficiency in quantum dot sensitized solar cells: A simplified approach to reviewing literature data. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 408-422.	8.2	22
7771	Green science: Independent building technology to mitigate energy, environment, and climate change. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 695-705.	8.2	65
7772	Efficient light harvesting in dye sensitized solar cells using broadband surface plasmon resonance of silver nanoparticles with varied shapes and sizes. <i>Materials Letters</i> , 2017, 193, 288-291.	1.3	11
7773	Magnetic, electronic, optical, and photocatalytic properties of nonmetal- and halogen-doped anatase TiO <sub>2</sub> nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 89, 50-56.	1.3	19
7774	TiCl <sub>4</sub> surface-treated SnO <sub>2</sub> photoanodes for self-powered UV photodetectors and dye-sensitized solar cells. <i>Materials Technology</i> , 2017, 32, 443-450.	1.5	13
7775	Development of Quasi-Solid-State Dye-Sensitized Solar Cells Based on a Poly (vinyl alcohol)/Poly (ethylene glycol)/Functionalized Multi-Walled Carbon Nanotubes Gel Electrolyte. <i>ChemistrySelect</i> , 2017, 2, 673-679.	0.7	8

#	ARTICLE	IF	CITATIONS
7776	Immobilising a cobalt cubane catalyst on a dye-sensitised TiO <sub>2</sub> photoanode via electrochemical polymerisation for light-driven water oxidation. <i>RSC Advances</i> , 2017, 7, 4102-4107.	1.7	10
7777	The Adsorption Geometry and Electronic Structure of Organic Dye Molecule on TiO <sub>2</sub> (101) Surface from First Principles Calculations. <i>MATEC Web of Conferences</i> , 2017, 88, 03002.	0.1	0
7778	A DFT study on the modification mechanism of (Cr, C) co-doping for the electronic and optical properties of anatase TiO <sub>2</sub> . <i>Computational Materials Science</i> , 2017, 129, 295-303.	1.4	25
7779	Photo-assisted synthesis of zinc-iron layered double hydroxides/TiO <sub>2</sub> nanoarrays toward highly-efficient photoelectrochemical water splitting. <i>Nano Energy</i> , 2017, 33, 21-28.	8.2	130
7780	Effect of the Anodic Titania Layer Thickness on Electrodeposition of Zinc on Ti/TiO <sub>2</sub> from Deep Eutectic Solvent. <i>Journal of the Electrochemical Society</i> , 2017, 164, D88-D94.	1.3	7
7781	Electrochemical Infilling of CuInSe <sub>2</sub> within TiO <sub>2</sub> Nanotube Layers and Subsequent Photoelectrochemical Studies. <i>ChemElectroChem</i> , 2017, 4, 495-499.	1.7	44
7782	An Investigation of Interfacial and Photoelectrochemical Performance of Thermally Prepared C,N-codoped TiO <sub>2</sub> Photoanodes for Water Splitting. <i>ChemistrySelect</i> , 2017, 2, 288-294.	0.7	16
7783	Tuning the Synthetic Parameters to Obtain Smart Co-doped Titania Photocatalysts for NO <sub>x</sub> Abatement. <i>ChemistrySelect</i> , 2017, 2, 728-739.	0.7	0
7784	Intrinsic Superhydrophilicity of Titania-Terminated Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2268-2275.	1.5	19
7785	Dual absorber Fe <sub>2</sub> O <sub>3</sub> /WO <sub>3</sub> host-guest architectures for improved charge generation and transfer in photoelectrochemical applications. <i>Materials Research Express</i> , 2017, 4, 016409.	0.8	23
7786	Catalytic role of bridging oxygens in TiO <sub>2</sub> liquid phase photocatalytic reactions: analysis of H <sub>2</sub> <sup>16</sup> O photooxidation on labeled Ti <sup>18</sup> O <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2017, 7, 902-910.	2.1	8
7787	DNA@Mn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> Nanoparticles Supported with Graphene Oxide as Photoelectrodes for Photoelectrocatalysis. <i>Nanoscale Research Letters</i> , 2017, 12, 17.	3.1	14
7788	Crucial Role of Donor Density in the Performance of Oxynitride Perovskite LaTiO <sub>2</sub> N for Photocatalytic Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 930-937.	3.6	19
7789	Enhancement in the photostability of natural dyes for dye-sensitized solar cell (DSSC) applications: a review. <i>International Journal of Energy Research</i> , 2017, 41, 1372-1396.	2.2	83
7790	Comparative spectroscopic approach for the dye loading optimization of sheet-like ZnO photoanodes for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 337, 192-197.	2.0	5
7791	Dye with an Intramolecular N Coordination Bond as a Key Scaffold for Electronic Structural Tuning and Their Application in Dye-Sensitized Solar Cells. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 441-450.	2.0	25
7792	A SrTiO <sub>3</sub> -TiO <sub>2</sub> eutectic composite as a stable photoanode material for photoelectrochemical hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 538-546.	10.8	42
7793	Transparent conductive oxide-less back contact dye-sensitized solar cells using flat titanium sheet with microholes for photoanode fabrication. <i>Journal of Photonics for Energy</i> , 2017, 7, 015501.	0.8	2





#	ARTICLE	IF	CITATIONS
7812	Iodide and triiodide anion complexes involving anion-π interactions with a tetrazine-based receptor. Dalton Transactions, 2017, 46, 4518-4529.	1.6	56
7813	New Insights into Se/BiVO <sub>4</sub> Heterostructure for Photoelectrochemical Water Splitting: A Combined Experimental and DFT Study. Journal of Physical Chemistry C, 2017, 121, 6218-6228.	1.5	96
7814	New benzoselenadiazole-based D-π-A type triarylamine sensitizers for highly efficient dye-sensitized solar cells. Dyes and Pigments, 2017, 141, 161-168.	2.0	31
7815	Identification and visualization of the intellectual structure and the main research lines in nanoscience and nanotechnology at the worldwide level. Journal of Nanoparticle Research, 2017, 19, 62.	0.8	32
7816	Bond Activation and Hydrogen Evolution from Water through Reactions with M <sub>3</sub> S <sub>4</sub> (M = Mo, W) and W <sub>3</sub> S <sub>3</sub> Anionic Clusters. Journal of Physical Chemistry A, 2017, 121, 1760-1767.	1.1	6
7817	Ultrathin Anatase TiO <sub>2</sub> Nanosheets for High-Performance Photocatalytic Hydrogen Production. Small, 2017, 13, 1604115.	5.2	72
7818	Nanofiber-Structured TiO <sub>2</sub> Nanocrystals as a Scattering Layer in Dye-Sensitized Solar Cells. ECS Journal of Solid State Science and Technology, 2017, 6, N32-N37.	0.9	10
7819	C=C Bond Modified Graphitic Carbon Nitride Films for Enhanced Photoelectrochemical Cell Performance. Chemistry - an Asian Journal, 2017, 12, 1005-1012.	1.7	35
7820	Comparative toxicity of Cd, Mo, and W sulphide nanomaterials toward E. Coli under UV irradiation. Environmental Pollution, 2017, 224, 606-614.	3.7	53
7821	Electrochemical synthesis and study of poly(2,5-diarylamino-3,6-dichlorobenzoquinone) and its composite with multiwalled carbon nanotubes. Russian Journal of Electrochemistry, 2017, 53, 210-216.	0.3	2
7822	Nanowire-based zinc-doped tin oxide microtubes for enhanced solar energy utilization efficiency. Ceramics International, 2017, 43, 6822-6830.	2.3	13
7823	Characterization, photoelectrochemical properties, and surface wettabilities of transparent porous TiO <sub>2</sub> thin films. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 340, 109-119.	2.0	8
7824	Seawater operating bio-photovoltaic cells coupling semiconductor photoanodes and enzymatic biocathodes. Sustainable Energy and Fuels, 2017, 1, 842-850.	2.5	9
7825	Theoretical investigation effects of anchor groups on photovoltaic properties for the C217-based dye sensitizer. Computational and Theoretical Chemistry, 2017, 1105, 89-96.	1.1	10
7826	Mesoporous cadmium bismuth niobate (CdBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ) nanospheres for hydrogen generation under visible light. Journal of Energy Chemistry, 2017, 26, 433-439.	7.1	11
7827	A highly efficient pn junction nanocomposite solar-energy-material [nano-photovoltaic] for direct conversion of water molecules to hydrogen solar fuel. Solar Energy Materials and Solar Cells, 2017, 165, 9-16.	3.0	21
7828	Atomic Layer Deposition of Titanium Oxide on Single-Layer Graphene: An Atomic-Scale Study toward Understanding Nucleation and Growth. Chemistry of Materials, 2017, 29, 2232-2238.	3.2	23
7829	Microwave assisted synthesis of MoS <sub>2</sub> /nitrogen-doped carbon shell-core microspheres for Pt-free dye-sensitized solar cells. RSC Advances, 2017, 7, 13433-13437.	1.7	10

#	ARTICLE	IF	CITATIONS
7830	Degradation in photoelectrochemical devices: review with an illustrative case study. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 124002.	1.3	63
7831	Nano-architecture based photoelectrochemical water oxidation efficiency enhancement by CdS photoanodes. <i>Materials Research Express</i> , 2017, 4, 026203.	0.8	5
7832	An efficient photoanode for dye sensitized solar cells using naturally derived S/TiO <sub>2</sub> nanoparticles. <i>Materials Research Express</i> , 2017, 4, 035016.	0.8	10
7833	Dual-Functional Surfactant-Templated Strategy for Synthesis of an In Situ N <sub>2</sub> -Intercalated Mesoporous WO <sub>3</sub> Photoanode for Efficient Visible-Light-Driven Water Oxidation. <i>Chemistry - A European Journal</i> , 2017, 23, 6596-6604.	1.7	9
7834	Construction of High-Quality SnO <sub>2</sub> @MoS <sub>2</sub> Nanohybrids for Promising Photoelectrocatalytic Applications. <i>Inorganic Chemistry</i> , 2017, 56, 3386-3393.	1.9	42
7835	Dye-sensitized solar cells based on cobalt-containing room temperature ionic liquid redox shuttles. <i>RSC Advances</i> , 2017, 7, 13689-13695.	1.7	14
7836	Strategies for stable water splitting via protected photoelectrodes. <i>Chemical Society Reviews</i> , 2017, 46, 1933-1954.	18.7	427
7837	Effect of morphology evolution from nanotubes to concatenated nanoparticles of hierarchical TiO <sub>2</sub> nanostructures on power conversion efficiency of dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 708, 508-516.	2.8	1
7838	A Unified Picture of Water Oxidation on Bare and Gallium Oxide-Covered Hematite from Density Functional Theory. <i>ACS Catalysis</i> , 2017, 7, 1793-1804.	5.5	24
7839	Atomically Precise Noble Metal Clusters Harvest Visible Light to Produce Energy. <i>ChemistrySelect</i> , 2017, 2, 1454-1463.	0.7	22
7840	Formation of intermediate band and low recombination rate in ZnO-BiVO <sub>4</sub> heterostructured photocatalyst: Investigation based on experimental and theoretical studies. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 500-510.	1.2	20
7841	Effect of annealing process in TiO <sub>2</sub> thin films: Structural, morphological, and optical properties. <i>Applied Surface Science</i> , 2017, 424, 111-114.	3.1	22
7842	Rapid Conversion from Carbohydrates to Large-Scale Carbon Quantum Dots for All-Weather Solar Cells. <i>ACS Nano</i> , 2017, 11, 1540-1547.	7.3	155
7843	Limiting photocurrent analysis of a wide channel photoelectrochemical flow reactor. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 084002.	1.3	11
7844	Intricate Hollow Structures: Controlled Synthesis and Applications in Energy Storage and Conversion. <i>Advanced Materials</i> , 2017, 29, 1602914.	11.1	523
7845	Electric field-driven point defect pile-up near ZnO polar surfaces. <i>Solid State Ionics</i> , 2017, 301, 95-98.	1.3	6
7846	Recovery of Silver from Wastewater Using a New Magnetic Photocatalytic Ion-Imprinted Polymer. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2090-2097.	3.2	70
7847	Implicating the contributions of surface and bulk states on carrier trapping and photocurrent performance of BiVO <sub>4</sub> photoanodes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6831-6837.	1.3	15

#	ARTICLE	IF	CITATIONS
7848	Photoelectrochemical hydrogen evolution from water on a surface modified CdTe thin film electrode under simulated sunlight. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4486-4492.	5.2	47
7849	Enhanced optical absorption in semiconductor nanoparticles enabled by nearfield dielectric scattering. <i>Nano Research</i> , 2017, 10, 1292-1301.	5.8	14
7850	Slow cooling and highly efficient extraction of hot carriers in colloidal perovskite nanocrystals. <i>Nature Communications</i> , 2017, 8, 14350.	5.8	282
7851	Surface Passivation of GaN Nanowires for Enhanced Photoelectrochemical Water-Splitting. <i>Nano Letters</i> , 2017, 17, 1520-1528.	4.5	175
7852	High-efficiency dye-sensitized solar cells fabricated using D-D- $\pi$ -A (donor-donor/ $\pi$ -spacer-acceptor) architecture. <i>Solar Energy</i> , 2017, 146, 150-160.	2.9	32
7853	Deconvoluting the influences of 3D structure on the performance of photoelectrodes for solar-driven water splitting. <i>Sustainable Energy and Fuels</i> , 2017, 1, 154-173.	2.5	19
7854	Oxygen-Impurity-Induced Direct $\rightarrow$ Indirect Band Gap in Perovskite SrTaO <sub>2</sub> N. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6864-6867.	1.5	14
7855	Ferromagnetic Interactions in Highly Stable, Partially Reduced TiO <sub>2</sub> : The $S=1$ State in Anatase. <i>Angewandte Chemie</i> , 2017, 129, 2648-2651.	1.6	5
7856	Electrochemical and spectroscopic investigation of a binary Ni-Co oxide active material deposited on graphene/polyvinyl alcohol composite substrate. <i>Journal of Electroanalytical Chemistry</i> , 2017, 791, 117-123.	1.9	6
7857	Ag nanoparticle-filled TiO <sub>2</sub> nanotube arrays prepared by anodization and electrophoretic deposition for dye-sensitized solar cells. <i>Nanotechnology</i> , 2017, 28, 135207.	1.3	25
7858	Multilayer and open structure of dendritic crosslinked CeO <sub>2</sub> -ZrO <sub>2</sub> composite: Enhanced photocatalytic degradation and water splitting performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5916-5929.	3.8	58
7859	Photoelectrochemical studies on electrodeposited indium doped CdSe thin films using aqueous bath. <i>Journal of Electroanalytical Chemistry</i> , 2017, 788, 137-143.	1.9	19
7860	Paramagnetic anatase titania/carbon nanocomposites. <i>Journal of Nanophotonics</i> , 2017, 11, 032505.	0.4	3
7861	Enhanced visible light absorption in ZnO/GaN heterostructured nanofilms. <i>Journal of Alloys and Compounds</i> , 2017, 704, 478-483.	2.8	12
7862	Comparative study of the structural and optical properties of epitaxial CuFeO <sub>2</sub> and CuFe <sub>1-x</sub> GaxO <sub>2</sub> delafossite thin films grown by pulsed laser deposition methods. <i>Thin Solid Films</i> , 2017, 626, 110-116.	0.8	18
7863	DFT/TD-DFT study of ruthenium bipyridyl-based dyes with a chalcogen donor (X = S, Se, Te), for application as dye-sensitized solar cells. <i>Polyhedron</i> , 2017, 127, 217-224.	1.0	15
7864	Role of a phenothiazine/phenoxazine donor in solid ionic conductors for efficient solid state dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5373-5382.	5.2	40
7865	Smart network node based on hybrid nanogenerator for self-powered multifunctional sensing. <i>Nano Energy</i> , 2017, 33, 418-426.	8.2	79

#	ARTICLE	IF	CITATIONS
7866	The photovoltaic effect in a [001] orientated ZnO thin film and its physical mechanism. RSC Advances, 2017, 7, 9596-9604.	1.7	10
7867	Two-Dimensional Metal Oxide Nanomaterials for Next-Generation Rechargeable Batteries. Advanced Materials, 2017, 29, 1700176.	11.1	317
7868	Liquid-like grain boundary complex ion and sub-eutectic activated sintering in CuO-doped TiO <sub>2</sub> . Acta Materialia, 2017, 130, 329-338.	3.8	41
7869	Photophysical Properties of SrTaO <sub>2</sub> N Thin Films and Influence of Anion Ordering: A Joint Theoretical and Experimental Investigation. Chemistry of Materials, 2017, 29, 3989-3998.	3.2	37
7870	Structure and Optical Properties of Small (TiO <sub>2</sub> ) <sub>n</sub> Nanoparticles, $n = 21 \pm 4$ . Journal of Physical Chemistry C, 2017, 121, 9528-9536.	1.5	7
7871	Photoanodes based on TiO <sub>2</sub> and Fe <sub>2</sub> O <sub>3</sub> for solar water splitting – superior role of 1D nanoarchitectures and of combined heterostructures. Chemical Society Reviews, 2017, 46, 3716-3769.	18.7	535
7872	Properties of Semiconductors: Synthesis of Oriented ZnO for Photoelectrochemistry and Photoremediation. Journal of Chemical Education, 2017, 94, 738-742.	1.1	9
7873	Formaldehyde Adsorption on the Anatase TiO <sub>2</sub> (101) Surface: Experimental and Theoretical Investigation. Journal of Physical Chemistry C, 2017, 121, 8914-8922.	1.5	32
7874	Radical detection and mechanism of WO <sub>3</sub> /CeO <sub>2</sub> nanocomposite as a visible active photocatalyst. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 785-795.	0.8	4
7875	Elevated photoelectrochemical activity of FeVO <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> /ZnO branch-structures via slag assisted-synthesis. RSC Advances, 2017, 7, 16787-16794.	1.7	13
7876	Synthesis and characterization of Fe <sub>2</sub> O <sub>3</sub> /Mn <sub>2</sub> O <sub>3</sub> /FeMn <sub>2</sub> O <sub>4</sub> nano composite alloy coated glass for photo-catalytic degradation of Reactive Blue 222. Journal of Materials Science: Materials in Electronics, 2017, 28, 11078-11083.	1.1	14
7877	Farms of triboelectric nanogenerators for harvesting wind energy: A potential approach towards green energy. Nano Energy, 2017, 36, 21-29.	8.2	96
7878	Molecular design of porphyrin dyes for dye sensitized solar cells: A quantitative structure property relationship study. International Journal of Quantum Chemistry, 2017, 117, e25385.	1.0	9
7879	Membrane-less photoelectrochemical cells: product separation by hydrodynamic control. Sustainable Energy and Fuels, 2017, 1, 1184-1198.	2.5	28
7880	Photoelectrochemical performances of kesterite Ag <sub>2</sub> ZnSnSe <sub>4</sub> photoelectrodes in the salt-water and water solutions. Journal of the Taiwan Institute of Chemical Engineers, 2017, 75, 199-208.	2.7	16
7881	Green synthesis, characterization and biological activities of silver nanoparticles from alkalized <i>Cymbopogon citratus</i> Stapf. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 015017.	0.7	57
7882	Design and roles of RGO-wrapping in charge transfer and surface passivation in photoelectrochemical enhancement of cascade-band photoanode. Nano Research, 2017, 10, 2415-2430.	5.8	11
7883	Synthesis of Hierarchical SnO <sub>2</sub> Nanowire-TiO <sub>2</sub> Nanorod Brushes Anchored to Commercially Available FTO-coated Glass Substrates. Nano-Micro Letters, 2017, 9, 33.	14.4	12

#	ARTICLE	IF	CITATIONS
7884	Examining the Effect of Exchange-Correlation Approximations in First-Principles Dynamics Simulation of Interfacial Charge Transfer. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2634-2641.	2.3	15
7885	Conducting polymers revisited: applications in energy, electrochromism and molecular recognition. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2489-2515.	1.2	68
7886	Palmitic acid and hexadecylamine molecules adsorbed on titania surface in hybrid composites. Effect of surfactants using density functional theory. <i>Computational and Theoretical Chemistry</i> , 2017, 1110, 50-59.	1.1	0
7887	Effect of dye extracting solvents and sensitization time on photovoltaic performance of natural dye sensitized solar cells. <i>Results in Physics</i> , 2017, 7, 1516-1523.	2.0	70
7888	Tungstic acids $H_2WO_4$ and $H_4WO_5$ as stable photocatalysts for water oxidation under visible light. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10280-10288.	5.2	33
7889	A smart mobile pouch as a biomechanical energy harvester towards self-powered smart wireless power transfer applications. <i>Nanoscale</i> , 2017, 9, 9818-9824.	2.8	50
7890	New Acetylene-Bridged 9,10-Conjugated Anthracene Sensitizers: Application in Outdoor and Indoor Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700032.	10.2	137
7891	Effect of TiO <sub>2</sub> nanoparticles on some photophysical characteristics of ketocyanine dyes. <i>Luminescence</i> , 2017, 32, 1283-1288.	1.5	3
7892	Efficient all p-type heterojunction photocathodes for photoelectrochemical water splitting. <i>Dalton Transactions</i> , 2017, 46, 7351-7360.	1.6	15
7893	Recent advances in photo-anode for dye-sensitized solar cells: a review. <i>International Journal of Energy Research</i> , 2017, 41, 2446-2467.	2.2	141
7894	Efficiency enhancement in dye-sensitized solar cells using the shape/size-dependent plasmonic nanocomposite photoanodes incorporating silver nanoplates. <i>Nanoscale</i> , 2017, 9, 7960-7969.	2.8	35
7895	Recent Methods for the Synthesis of Noble-Metal-Free Hydrogen-Evolution Electrocatalysts: From Nanoscale to Sub-nanoscale. <i>Small Methods</i> , 2017, 1, 1700118.	4.6	96
7896	Structural and Optical Studies of Ni/S Co Doped TiO <sub>2</sub> Nanorods via Sol-Gel Route. <i>Springer Proceedings in Physics</i> , 2017, , 299-311.	0.1	0
7897	Hybrid TiO <sub>2</sub> /metal nanoparticle microstructures made by microcontact printing, absorption and electroless deposition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5882-5886.	2.7	6
7898	Enhanced photoelectrochemical and photocatalytic efficiency of rare earth slag decorated CdSe/ZnO hetero-nanorods. <i>Research on Chemical Intermediates</i> , 2017, 43, 5587-5600.	1.3	2
7899	Using soft x-ray absorption spectroscopy to characterize electrode/electrolyte interfaces in-situ and operando. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 221, 2-9.	0.8	25
7900	Bioinspired study of energy and electron transfer in photovoltaic system. <i>Journal of Experimental Nanoscience</i> , 2017, 12, 285-296.	1.3	3
7901	Breakdown of Polarons in Conducting Polymers at Device Field Strengths. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10317-10324.	1.5	12

#	ARTICLE	IF	CITATIONS
7902	ZnO/CdS nanorod arrays decorated by layered double hydroxides for efficient solar water oxidation. <i>International Journal of Energy Research</i> , 2017, 41, 1781-1789.	2.2	10
7903	Ag@TiO <sub>2</sub> composite photoelectrode for dye-sensitized solar cell. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	22
7904	Interfacial Dynamics within an Organic Chromophore-Based Water Oxidation Molecular Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16651-16659.	4.0	5
7905	Photorechargeable High Voltage Redox Battery Enabled by Ta <sub>3</sub> N <sub>5</sub> and GaN/Si Dual-Photoelectrode. <i>Advanced Materials</i> , 2017, 29, 1700312.	11.1	60
7906	Fabrication of CdS nanorods and nanoparticles with PANI for (DSSCs) dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 150, 317-324.	2.9	32
7907	Deposition, characterizations and photoelectrochemical performance of nanocrystalline Cu-In-Cd-Se thin films by hybrid chemical process. <i>Journal of Materials Science</i> , 2017, 52, 9709-9727.	1.7	11
7908	The influence of linker molecule on photovoltaic performance of CdS quantum dots sensitized translucent TiO <sub>2</sub> nanotube solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2867-2876.	1.1	5
7909	Initial growth study of TiO <sub>2</sub> nanotube arrays anodised in KOH/fluoride/ethylene glycol electrolyte. <i>Materials and Design</i> , 2017, 128, 195-205.	3.3	19
7910	Size-controlled synthesis of ZIF-8 particles and their pyrolytic conversion into ZnO aggregates as photoanode materials of dye-sensitized solar cells. <i>CrystEngComm</i> , 2017, 19, 2844-2851.	1.3	27
7911	Fabrication of Pt/Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ultrathin nanosheet heterostructure for photoelectrochemical microRNA sensing using novel G-wire-enhanced strategy. <i>Nanoscale</i> , 2017, 9, 7526-7532.	2.8	42
7912	Recent progress and utilization of natural pigments in dye sensitized solar cells: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 301-317.	8.2	156
7913	3D Au-decorated BiMoO <sub>6</sub> nanosheet/TiO <sub>2</sub> nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16412-16421.	5.2	150
7914	Limits on the use of cobalt sulfide as anode of p-type dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 215501.	1.3	8
7915	3D-hierarchical MoSe <sub>2</sub> nanoarchitecture as a highly efficient electrocatalyst for hydrogen evolution. <i>2D Materials</i> , 2017, 4, 025092.	2.0	78
7916	Principles and applications of photoelectrochemical sensing strategies based on biofunctionalized nanostructures. <i>Biosensors and Bioelectronics</i> , 2017, 96, 8-16.	5.3	173
7917	Visible light guided manipulation of liquid wettability on photoresponsive surfaces. <i>Nature Communications</i> , 2017, 8, 14968.	5.8	89
7918	Instantaneous photoinitiated synthesis and rapid pulsed photothermal treatment of three-dimensional nanostructured TiO <sub>2</sub> thin films through pulsed light irradiation. <i>Journal of Materials Research</i> , 2017, 32, 1701-1709.	1.2	18
7919	Boosting Photoelectrochemical Water Splitting by TENG-Charged Li-Ion Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1700124.	10.2	36

#	ARTICLE	IF	CITATIONS
7920	Electrospun CuO Nanofibers: Stable Nanostructures for Solar Water Splitting. ChemPhotoChem, 2017, 1, 326-340.	1.5	30
7921	Accessible Graphene Aerogel for Efficiently Harvesting Solar Energy. ACS Sustainable Chemistry and Engineering, 2017, 5, 4665-4671.	3.2	208
7922	Synthesis and excellent visible light photocatalysis performance of magnetic reduced graphene oxide/ZnO/ZnFe <sub>2</sub> O <sub>4</sub> composites. RSC Advances, 2017, 7, 23246-23254.	1.7	32
7924	Synthesis and optical properties investigation of highly dispersed TiO <sub>2</sub> nanoparticles surface modified with a quinoline derivative. Journal of Materials Science: Materials in Electronics, 2017, 28, 11987-11993.	1.1	2
7925	Synthetic approaches toward stilbenes and their related structures. Molecular Diversity, 2017, 21, 483-509.	2.1	23
7926	Photoinduced formation of reactive oxygen species and electrons from metal oxide-silica nanocomposite: An EPR spin-trapping study. Applied Surface Science, 2017, 416, 281-287.	3.1	36
7927	Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Atomic Layer Deposition Layers on ZnO Photoanodes and Degradation Mechanisms. ACS Applied Materials & Interfaces, 2017, 9, 16138-16147.	4.0	26
7928	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. Nano Energy, 2017, 31, 359-366.	8.2	114
7929	Synthesis, Characterization, and Photocatalytic Application of Iron Oxalate Capped Fe, Fe-Cu, Fe-Co, and Fe-Mn Oxide Nanomaterial. ACS Sustainable Chemistry and Engineering, 2017, 5, 310-324.	3.2	39
7930	Surface-Sensitive and Surface-Specific Ultrafast Two-Dimensional Vibrational Spectroscopy. Chemical Reviews, 2017, 117, 10623-10664.	23.0	114
7931	On the efficacy of anthracene isomers for triplet transmission from CdSe nanocrystals. Chemical Communications, 2017, 53, 1241-1244.	2.2	28
7932	Creating Carbon-Oxygen Bonds over TiO <sub>2</sub> Nanofibers for Synergistic Benefits of Visible-Light Response and Charge Separation toward Photocatalysis. Advanced Materials Interfaces, 2017, 4, 1600795.	1.9	6
7933	Spinach extract and Eosin-Y co-sensitized ceria photoanode for dye sensitized solar cell application: effect of dye adsorption time. Journal of Materials Science: Materials in Electronics, 2017, 28, 5075-5081.	1.1	11
7934	Streptomycin loaded TiO <sub>2</sub> nanoparticles: preparation, characterization and antibacterial applications. Journal of Nanostructure in Chemistry, 2017, 7, 47-53.	5.3	26
7935	Hematite electron-transporting layers for environmentally stable planar perovskite solar cells with enhanced energy conversion and lower hysteresis. Journal of Materials Chemistry A, 2017, 5, 1434-1441.	5.2	95
7936	The Direct Electrochemistry of Fuel-Forming Enzymes on Semiconducting Electrodes: How Light-Harvesting Semiconductors Can Alter the Bias of Reversible Electrocatalysts in Favour of H <sub>2</sub> Production and CO <sub>2</sub> Reduction. Springer Theses, 2017, , 157-177.	0.0	0
7937	Theoretical research on the H <sub>2</sub> generation mechanism on Pt <sub>6</sub> , Pt <sub>5</sub> Sn <sub>5</sub> and Pt <sub>3</sub> Sn <sub>6</sub> clusters by density functional theory. International Journal of Hydrogen Energy, 2017, 42, 16157-16169.	3.8	10
7938	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO <sub>2</sub> Photoanode: A Rate Law Analysis. ACS Catalysis, 2017, 7, 4896-4903.	5.5	105

#	ARTICLE	IF	CITATIONS
7939	Nano-engineering of p <sup>n</sup> CuFeO <sub>2</sub> -ZnO heterojunction photoanode with improved light absorption and charge collection for photoelectrochemical water oxidation. <i>Nanotechnology</i> , 2017, 28, 325401.	1.3	26
7940	Cathodic shift of a photo-potential on a Ta <sub>3</sub> N <sub>5</sub> photoanode by post-heating a TiO <sub>2</sub> passivation layer. <i>RSC Advances</i> , 2017, 7, 30650-30656.	1.7	8
7941	A reconstructed anatase (001)-1 Å <sup>−4</sup> surface and its reactivity. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16615-16620.	1.3	9
7942	Spatial separation of photogenerated electron-hole pairs in solution-grown ZnO tandem p core-shell nanowire arrays toward highly sensitive photoelectrochemical detection of hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14397-14405.	5.2	19
7943	Fabrication of Co <sub>3</sub> O <sub>4</sub> mesoporous thin films by using cobalt/chitosan precursor on fluorine-doped tin oxide glass. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 06GH07.	0.8	0
7945	Scattering and plasmonic synergetic enhancement of the performance of dye-sensitized solar cells by double-shell SiO <sub>2</sub> @Au@TiO <sub>2</sub> microspheres. <i>Nanotechnology</i> , 2017, 28, 265202.	1.3	4
7946	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. <i>Angewandte Chemie</i> , 2017, 129, 8333-8337.	1.6	29
7947	A Nanojunction Polymer Photoelectrode for Efficient Charge Transport and Separation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8221-8225.	7.2	130
7948	Enhanced photopromoted electron transfer over a bilayer WO <sub>3</sub> n heterojunction prepared by RF diode sputtering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12977-12989.	5.2	21
7949	On the possible synergism of the different phases of TiO <sub>2</sub> in photo-catalysis for hydrogen production. <i>Journal of Catalysis</i> , 2017, 352, 657-671.	3.1	26
7950	Polyoxometalate-modified TiO <sub>2</sub> nanotube arrays photoanode materials for enhanced dye-sensitized solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 109, 64-69.	1.9	19
7951	Ultrafine Ti <sup>4+</sup> doped $\delta$ -Fe <sub>2</sub> O <sub>3</sub> nanorod array photoanodes with high charge separation efficiency for solar water splitting. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 255502.	1.3	5
7952	Hierarchically 3D assembled strontium titanate nanomaterials for water splitting application. <i>Applied Surface Science</i> , 2017, 419, 886-892.	3.1	32
7953	Amorphous ferric oxide as a hole-extraction and transfer layer on nanoporous bismuth vanadate photoanode for water oxidation. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1045-1051.	6.9	5
7954	Carboxylic acid-functionalized multi-walled carbon nanotubes-polyindole/Ti <sub>2</sub> O <sub>3</sub> : A novel hybrid nanocomposite as highly efficient photo-anode for dye-sensitized solar cells (DSSCs). <i>Applied Surface Science</i> , 2017, 423, 147-153.	3.1	12
7955	In situ preparation of hierarchically structured dual-layer TiO <sub>2</sub> films by E-spray method for efficient dye-sensitized solar cells. <i>Organic Electronics</i> , 2017, 49, 135-141.	1.4	15
7956	Frequency-Dependent Terahertz Transient Photoconductivity of Mesoporous SnO <sub>2</sub> Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15949-15956.	1.5	24
7957	Photoelectrochemical ion concentration polarization: membraneless ion filtration based on light-driven electrochemical reactions. <i>Lab on A Chip</i> , 2017, 17, 2491-2499.	3.1	9



#	ARTICLE	IF	CITATIONS
7958	On the Mechanism of the Iodide–Triiodide Exchange Reaction in a Solid-State Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6436-6441.	1.2	8
7959	MoS <sub>2</sub> /WS <sub>2</sub> Heterojunction for Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 4990-4998.	5.5	189
7960	Recent Progress in the Development of Semiconductor-Based Photocatalyst Materials for Applications in Photocatalytic Water Splitting and Degradation of Pollutants. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700006.	2.7	144
7961	Opto-electronic and interfacial charge transfer properties of azobenzene dyes on anatase TiO <sub>2</sub> (001) surface – The effect of anchoring group. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 372-381.	2.0	10
7962	Understanding the photo-electrochemistry of metal-free di and tri substituted thiophene-based organic dyes in dye-sensitized solar cells using DFT/TD-DFT studies. <i>Ionics</i> , 2017, 23, 3545-3554.	1.2	20
7963	High efficient dye sensitized solar cells using phthaloylchitosan based gel polymer electrolytes. <i>Electrochimica Acta</i> , 2017, 245, 846-853.	2.6	68
7964	Gathered sensitizer on the surface of catalyst by sodium polyacrylate for highly efficient photocatalytic hydrogen evolution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 345, 92-97.	2.0	7
7965	Elucidation of CuWO <sub>4</sub> Surface States During Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2700-2704.	2.1	49
7966	Thermally Stable Sr <sub>2</sub> RuO <sub>4</sub> Electrode for Oxide Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21314-21321.	4.0	17
7967	Improved photocathodic performance in Pt catalyzed ferroelectric BiFeO <sub>3</sub> films sandwiched by a porous carbon layer. <i>Chemical Communications</i> , 2017, 53, 7052-7055.	2.2	11
7968	Apparatus for the investigation of high-temperature, high-pressure gas-phase heterogeneous catalytic and photo-catalytic materials. <i>Review of Scientific Instruments</i> , 2017, 88, 054101.	0.6	4
7969	Honeycomb-like NiCo <sub>2</sub> S <sub>4</sub> nanosheets prepared by rapid electrodeposition as a counter electrode for dye-sensitized solar cells. <i>Nanotechnology</i> , 2017, 28, 345403.	1.3	15
7970	Natural and artificial spectral edges in exoplanets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 470, L82-L86.	1.2	27
7972	Influence of deposition voltage of cobalt diselenide preparation on the film quality and the performance of dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 151, 61-67.	2.9	25
7973	GaS <sub>0.5</sub> Te <sub>0.5</sub> monolayer as an efficient water splitting photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15394-15402.	1.3	17
7974	Improved photovoltaic performance of quantum dot-sensitized solar cells using multi-layered semiconductors with the effect of a ZnSe passivation layer. <i>New Journal of Chemistry</i> , 2017, 41, 5942-5949.	1.4	21
7975	Ultrathin CoOx-modified hematite with low onset potential for solar water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14178-14184.	1.3	24
7976	Terahertz investigations on photoisomerisable compounds. <i>Molecular Physics</i> , 2017, 115, 2486-2494.	0.8	2

#	ARTICLE	IF	CITATIONS
7977	Enhancement of the Mie scattering effect using floatstone-like TiO <sub>2</sub> spherical micropigment. <i>Coloration Technology</i> , 2017, 133, 187-193.	0.7	0
7978	A Plant-Transpiration-Inspired Strategy for Highly Efficient Solar Evaporation. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700046.	2.7	208
7979	Oxygen-vacancy-induced photoelectrochemical water oxidation by platelike tungsten oxide photoanodes prepared under acid-mediated hydrothermal treatment conditions. <i>RSC Advances</i> , 2017, 7, 26992-27000.	1.7	32
7980	Ultra-sensitive and selective NH <sub>3</sub> room temperature gas sensing induced by manganese-doped titanium dioxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 371-386.	5.0	46
7981	Near-complete suppression of surface losses and total internal quantum efficiency in BiVO <sub>4</sub> photoanodes. <i>Energy and Environmental Science</i> , 2017, 10, 1517-1529.	15.6	159
7982	Comprehensive theoretical and experimental study of electrical transport mechanism on BiFeO <sub>3</sub> multiferroic nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 720, 47-53.	2.8	10
7983	Simultaneous Enhancement of Charge Separation and Hole Transportation in a TiO <sub>2</sub> -SrTiO <sub>3</sub> Core-Shell Nanowire Photoelectrochemical System. <i>Advanced Materials</i> , 2017, 29, 1701432.	11.1	165
7984	Single-Site Active Cobalt-Based Photocatalyst with a Long Carrier Lifetime for Spontaneous Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9312-9317.	7.2	393
7985	Rose Bengal sensitized niobium pentoxide photoanode for dye sensitized solar cell application. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	9
7986	When eutectic composites meet photoelectrochemistry – Highly stable and efficient UV-visible hybrid photoanodes. <i>Journal of Catalysis</i> , 2017, 352, 93-101.	3.1	12
7987	Enhancing efficiency of Fe <sub>2</sub> O <sub>3</sub> for robust and proficient solar water splitting using a highly dispersed bioinspired catalyst. <i>Journal of Catalysis</i> , 2017, 352, 83-92.	3.1	28
7988	Efficient photoelectrochemical water splitting using CuO nanorod/Al <sub>2</sub> O <sub>3</sub> heterostructure photoelectrodes with different Al layer thicknesses. <i>Physica B: Condensed Matter</i> , 2017, 519, 95-101.	1.3	18
7989	Facile room-temperature surface modification of unprecedented FeB co-catalysts on Fe <sub>2</sub> O <sub>3</sub> nanorod photoanodes for high photoelectrochemical performance. <i>Journal of Catalysis</i> , 2017, 352, 113-119.	3.1	35
7990	–A System: Light Harvesting, Charge Transfer, and Molecular Designing. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12546-12561.	1.5	100
7991	A near-infrared organic photosensitizer for use in dye-sensitized photoelectrochemical water splitting. <i>Chemical Communications</i> , 2017, 53, 6784-6787.	2.2	28
7992	Photonic Potential of Haloarchaeal Pigment Bacteriorhodopsin for Future Electronics: A Review. <i>Current Microbiology</i> , 2017, 74, 996-1002.	1.0	22
7993	VOC-sensitive structures with nanoscale heterojunctions based on WO <sub>3-x</sub> nanoneedles and Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Monatshefte für Chemie</i> , 2017, 148, 1921-1927.	0.9	0
7994	Natural sensitizers for DSCs improved with nano-TiO <sub>2</sub> compact layer. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 144-152.	2.0	6

#	ARTICLE	IF	CITATIONS
7995	Electrochemical impedance spectroscopy: Fundamentals and application in dye-sensitized solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 814-829.	8.2	212
7996	Facile synthesis of a heterogeneous $\text{Li}_2\text{TiO}_3/\text{TiO}_2$ nanocomposite with enhanced photoelectrochemical water splitting. <i>New Journal of Chemistry</i> , 2017, 41, 6305-6314.	1.4	19
7997	A building blocks strategy for preparing photocatalytically active anatase $\text{TiO}_2$ /rutile $\text{SnO}_2$ heterostructures by hydrothermal annealing. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 454-459.	5.0	31
7998	Progress in Developing Metal Oxide Nanomaterials for Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1700555.	10.2	455
7999	Visible-light-mediated [4+2] Annulation of <i>N</i> -Cyclobutylanilines with Alkynes Catalyzed by Self-doped $\text{Ti}_3\text{O}_5/\text{TiO}_2$ . <i>Chemistry - A European Journal</i> , 2017, 23, 15396-15403.	1.7	10
8000	Visible-light-absorbing semiconductor/molecular catalyst hybrid photoelectrodes for $\text{H}_2$ or $\text{O}_2$ evolution: recent advances and challenges. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1641-1663.	2.5	68
8001	Single-site Active Cobalt-based Photocatalyst with a Long Carrier Lifetime for Spontaneous Overall Water Splitting. <i>Angewandte Chemie</i> , 2017, 129, 9440-9445.	1.6	95
8002	A micro membrane-less photoelectrochemical cell for hydrogen and electricity generation in the presence of methanol. <i>Electrochimica Acta</i> , 2017, 245, 549-560.	2.6	15
8003	Carbon nitride transparent counter electrode prepared by magnetron sputtering for a dye-sensitized solar cell. <i>Green Energy and Environment</i> , 2017, 2, 302-309.	4.7	29
8004	Role of Surface Stress on the Reactivity of Anatase $\text{TiO}_2(001)$ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1764-1771.	2.1	39
8005	Effect of polyoxometalate in organic-inorganic hybrids on charge transfer and absorption spectra towards sensitizers. <i>Dyes and Pigments</i> , 2017, 142, 379-386.	2.0	20
8006	First-principles calculation of electronic energy level alignment at electrochemical interfaces. <i>Applied Surface Science</i> , 2017, 412, 335-341.	3.1	5
8007	Preparation of porous $\text{CuO}$ films from $\text{Cu}(\text{NO}_3)_2$ aqueous solutions containing poly(vinylpyrrolidone) and their photocathodic properties. <i>RSC Advances</i> , 2017, 7, 18014-18018.	1.7	12
8008	Solution-Based Synthesis of Nano-Sized $\text{TiO}_2$ Anatase in Fluorinating Media. , 2017, , 651-669.		3
8009	Fabrication of $\text{CuInS}_2$ photocathodes on carbon microfiber felt by arc plasma deposition for efficient water splitting under visible light. <i>Sustainable Energy and Fuels</i> , 2017, 1, 699-709.	2.5	10
8010	Uncatalyzed C-H Amination of Aromatic Compounds under Unusually Mild Conditions with Negative Enthalpies of Activation. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 1080-1085.	1.3	7
8011	Low-temperature preparation of rutile-type $\text{TiO}_2$ thin films for optical coatings by aluminum doping. <i>Applied Surface Science</i> , 2017, 412, 223-229.	3.1	14
8012	Fast and low-cost fabrication of 1D hematite photoanode in pure water vapor and air atmosphere: Investigation the effect of the oxidation atmosphere on the PEC performance of the hematite photoanodes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11139-11149.	3.8	19

#	ARTICLE	IF	CITATIONS
8013	Synthesis of randomly directed inclined TiO <sub>2</sub> nanorods on the nanocrystalline TiO <sub>2</sub> layers and their optimized application in dye sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 711, 603-610.	2.8	17
8014	Hydrothermally tailored anatase TiO <sub>2</sub> nanoplates with exposed {1 1 1} facets for highly efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 147, 202-208.	2.9	26
8015	ZnFe <sub>2</sub> O <sub>4</sub> Nanotapers: Slag Assistant-Growth and Enhanced Photoelectrochemical Efficiency. <i>Nanoscale Research Letters</i> , 2017, 12, 211.	3.1	13
8016	Microwave-power induced green synthesis of randomly oriented mesoporous anatase TiO <sub>2</sub> nanoparticles for efficient dye sensitized solar cells. <i>Solar Energy</i> , 2017, 147, 99-105.	2.9	29
8017	Emerging two-dimensional nanomaterials for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8187-8208.	5.2	229
8018	Insights into the Mechanism of a Covalently Linked Organic Dye-Cobaloxime Catalyst System for Dye-Sensitized Solar Fuel Devices. <i>ChemSusChem</i> , 2017, 10, 2480-2495.	3.6	65
8019	Developing new understanding of photoelectrochemical water splitting via in-situ techniques: A review on recent progress. <i>Green Energy and Environment</i> , 2017, 2, 100-111.	4.7	76
8020	Modulation of cell adhesion to conductive polymers. <i>International Journal of Nanotechnology</i> , 2017, 14, 235.	0.1	5
8021	Photocatalysis with TiO <sub>2</sub> Nanotubes: "Colorful" Reactivity and Designing Site-Specific Photocatalytic Centers into TiO <sub>2</sub> Nanotubes. <i>ACS Catalysis</i> , 2017, 7, 3210-3235.	5.5	236
8022	Highly Active GaN-stabilized Ta <sub>3</sub> N <sub>5</sub> Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie</i> , 2017, 129, 4817-4821.	1.6	31
8023	Synthesis, Crystal Structures and Photosensitizing Activities of Ni(II) and Pd(II) Heteroleptic Dithiolate-dppf Complexes. <i>ChemistrySelect</i> , 2017, 2, 2655-2664.	0.7	11
8024	Plasmonic enhancement of the performance of dye-sensitized solar cells by incorporating TiO <sub>2</sub> nanotubes decorated with Au nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 714, 89-95.	2.8	12
8025	Dihydropteridine/Pteridine as a 2H <sup>+</sup> /2e <sup>-</sup> Redox Mediator for the Reduction of CO <sub>2</sub> to Methanol: A Computational Study. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4158-4167.	1.2	13
8026	Cathodic shift of onset potential for water oxidation of WO <sub>3</sub> photoanode by Zr <sup>+</sup> ions implantation. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	12
8027	Preparation of CO-tolerant anode electrocatalysts for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13741-13753.	3.8	25
8028	Performance Characterization of Dye-Sensitized Photovoltaics under Indoor Lighting. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1824-1830.	2.1	51
8029	Development of a New Electrochemical Method for Preparation of Titanium Dioxides Films from an Aqueous Solution. <i>MRS Advances</i> , 2017, 2, 295-300.	0.5	0
8030	Rose bengal-sensitized ZrO <sub>2</sub> photoanode for dye-sensitized solar cell. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2719-2723.	1.2	6

#	ARTICLE	IF	CITATIONS
8031	Zirconium oxide films: deposition techniques and their applications in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2531-2545.	1.2	9
8032	Performance improvement of dye-sensitized solar cell by introducing Sm <sup>3+</sup> /Y <sup>3+</sup> co-doped TiO <sub>2</sub> film as an efficient blocking layer. <i>Thin Solid Films</i> , 2017, 631, 141-146.	0.8	10
8033	The role of defects and dimensionality in influencing the charge, capacitance, and energy storage of graphene and 2D materials. <i>Nanotechnology Reviews</i> , 2017, 6, 421-433.	2.6	18
8034	Phase transformation of TiO <sub>2</sub> nanoparticles by femtosecond laser ablation in aqueous solutions and deposition on conductive substrates. <i>Nanoscale</i> , 2017, 9, 6167-6177.	2.8	24
8035	The effect of Fe <sup>2+</sup> state in electrical property variations of Sn-doped hematite powders. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3928-3934.	1.9	14
8036	Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. <i>Advanced Materials</i> , 2017, 29, 1606893.	11.1	84
8037	Review of recent trends in photoelectrocatalytic conversion of solar energy to electricity and hydrogen. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 235-254.	10.8	359
8038	Investigation of structural and optical properties of pure and chromium doped TiO <sub>2</sub> nanoparticles prepared by solvothermal method. <i>Results in Physics</i> , 2017, 7, 1283-1288.	2.0	84
8039	GaP/GaNP Heterojunctions for Efficient Solar-Driven Water Oxidation. <i>Small</i> , 2017, 13, 1603574.	5.2	11
8040	Extending spectrum response of squaraine-sensitized solar cell by Förster resonance energy transfer. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2091-2098.	1.2	5
8041	IR spectroscopy applied to metal oxide surfaces: adsorbate vibrations and beyond. <i>Advances in Physics: X</i> , 2017, 2, 373-408.	1.5	46
8042	Electrospinning Titanium Dioxide (TiO <sub>2</sub> ) nanofiber for dye sensitized solar cells based on Bryophyta as a sensitizer. <i>Journal of Physics: Conference Series</i> , 2017, 795, 012033.	0.3	5
8044	Choosing the right nanoparticle size – designing novel ZnO electrode architectures for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7516-7522.	5.2	8
8045	Composite formed upon the ultrasonication of an aqueous suspension of graphite oxide-titanium dioxide. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 189-194.	0.1	0
8046	meso-Diphenylbacteriochlorins: Macrocyclic Dyes with Rare Colors for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7081-7087.	1.5	32
8047	Structural, Electronic, and Optical Properties of Cu <sub>2</sub> NiSnS <sub>4</sub> : A Combined Experimental and Theoretical Study toward Photovoltaic Applications. <i>Chemistry of Materials</i> , 2017, 29, 3133-3142.	3.2	90
8048	Electronic structure and optical properties of Ta-doped and (Ta, N)-codoped SrTiO <sub>3</sub> from hybrid functional calculations. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	18
8049	Structural investigation, spectroscopic and energy level studies of Schiff base: 2-[(3- $\beta$ -N) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tt 5 Structure, 2017, 1139, 247-254.	1.8	13

#	ARTICLE	IF	CITATIONS
8050	Electrochemical synthesis of nanoporous tungsten carbide and its application as electrocatalysts for photoelectrochemical cells. <i>Nanoscale</i> , 2017, 9, 5413-5424.	2.8	26
8051	Oxygen defective metal oxides for energy conversion and storage. <i>Nano Today</i> , 2017, 13, 23-39.	6.2	266
8052	Design Principle and Loss Engineering for Photovoltaic Electrolysis Cell System. <i>ACS Omega</i> , 2017, 2, 1009-1018.	1.6	57
8053	WO <sub>3</sub> mesocrystal-assisted photoelectrochemical activity of BiVO <sub>4</sub> . <i>NPG Asia Materials</i> , 2017, 9, e357-e357.	3.8	52
8054	Structured Nanoparticles from the Self-Assembly of Polymer Blends through Rapid Solvent Exchange. <i>Langmuir</i> , 2017, 33, 6021-6028.	1.6	33
8055	Modulated CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Br <sub>x</sub> film for efficient perovskite solar cells exceeding 18%. <i>Scientific Reports</i> , 2017, 7, 44603.	1.6	60
8056	Metal Doping to Enhance the Photoelectrochemical Behavior of LaFeO <sub>3</sub> Photocathodes. <i>ChemSusChem</i> , 2017, 10, 2457-2463.	3.6	57
8057	Hydrothermal growth of MoS <sub>2</sub> /Co <sub>3</sub> S <sub>4</sub> composites as efficient Pt-free counter electrodes for dye-sensitized solar cells. <i>Science China Materials</i> , 2017, 60, 295-303.	3.5	35
8058	Quantum dots as enhancer in photocatalytic hydrogen evolution: A review. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9467-9481.	3.8	104
8059	(Photo) Electrochemical studies of chemically deposited h-CdS thin films. <i>Optik</i> , 2017, 138, 192-199.	1.4	4
8060	Ferroelectric BaTiO <sub>3</sub> dipole induced charge transfer enhancement in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 350, 35-40.	4.0	24
8061	High capacity WO <sub>3</sub> film as efficient charge collection electrode for solar rechargeable batteries. <i>Journal of Power Sources</i> , 2017, 350, 28-34.	4.0	23
8062	New insight into binary TiO <sub>2</sub> @C nanocomposites: the crucial effect of an interfacial microstructure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9519-9527.	1.3	18
8063	Simple preparation of highly active water splitting FTO/BiVO <sub>4</sub> photoanode modified with tri-layer water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6825-6831.	5.2	36
8064	Highly Active GaN-stabilized Ta <sub>3</sub> N <sub>5</sub> Thin Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4739-4743.	7.2	130
8065	Catalytic Metal Oxide Nanoparticles Decorated Silicon/ Hematite Core Shell Nanowire Arrays as Efficient Photo Electrodes for Water Splitting. <i>ChemistrySelect</i> , 2017, 2, 2544-2551.	0.7	5
8066	Solution-processed relatively pure MoS <sub>2</sub> nanoparticles in-situ grown on graphite paper as an efficient FTO-free counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2017, 235, 182-190.	2.6	33
8067	High Performance Porphyrin-Based Dye-Sensitized Solar Cells with Iodine and Cobalt Redox Shuttles. <i>ChemSusChem</i> , 2017, 10, 938-945.	3.6	15

#	ARTICLE	IF	CITATIONS
8068	Dye sensitized solar cells: From genesis to recent drifts. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 529-537.	8.2	100
8069	Hydrothermal growth of highly monodispersed TiO <sub>2</sub> nanoparticles: Functional properties and dye-sensitized solar cell performance. <i>Applied Surface Science</i> , 2017, 418, 186-193.	3.1	7
8070	High performance dye-sensitized solar cells based on platinum nanoroses counter electrode. <i>Surface and Coatings Technology</i> , 2017, 320, 409-413.	2.2	9
8071	A solid oxide photoelectrochemical cell with UV light-driven oxygen storage in mixed conducting electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1637-1649.	5.2	21
8072	Enhancing the electron transfer and band potential tuning with long-term stability of ZnO based dye-sensitized solar cells by gallium and tellurium as dual-doping. <i>Electrochimica Acta</i> , 2017, 225, 243-254.	2.6	32
8073	Covalent bond-grafted soluble poly(o-methoxyaniline)-graphene oxide composite materials fabricated as counter electrodes of dye-sensitized solar cells. <i>Organic Electronics</i> , 2017, 42, 209-220.	1.4	20
8074	Effects of the structure of the Rh <sup>3+</sup> modifier on photocatalytic performances of an Rh <sup>3+</sup> /TiO <sub>2</sub> photocatalyst under irradiation of visible light. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 340-346.	10.8	8
8075	Optimization and characterization of TiO <sub>2</sub> -based solar cell design using diverse plant pigments. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8576-8585.	3.8	20
8076	Tuning the Electron Transport and Electron-Accepting Abilities of Dyes through Introduction of Different $\pi$ -Conjugated Bridges and Acceptors for Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2017, 18, 366-383.	1.0	33
8077	Efficient photocatalytic oxygen production over Ca-modified LaTiO <sub>2</sub> N. <i>Journal of Catalysis</i> , 2017, 346, 10-20.	3.1	57
8078	Photoelectric conversion beyond sunny days: all-weather carbon quantum dot solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2143-2150.	5.2	54
8079	A novel fabrication methodology for sulfur-doped ZnO nanorods as an active photoanode for improved water oxidation in visible-light regime. <i>Nanotechnology</i> , 2017, 28, 055602.	1.3	33
8080	Synthesis of self-aligned and vertically oriented carbon incorporated titania nanotube for improved photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4782-4792.	3.8	16
8081	Enhancement of Charge Separation and Hydrogen Evolution on Particulate La <sub>0.5</sub> Ti <sub>0.2</sub> CuS <sub>0.5</sub> O <sub>7</sub> Photocathodes by Surface Modification. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 375-379.	2.1	17
8082	A ZnO nanowire bio-hybrid solar cell. <i>Nanotechnology</i> , 2017, 28, 054006.	1.3	18
8083	Simulation of natural dyes adsorbed on TiO <sub>2</sub> for photovoltaic applications. <i>Solar Energy</i> , 2017, 142, 215-223.	2.9	17
8084	Hot Electron Collection on Brookite Nanorods Lateral Facets for Plasmon-Enhanced Water Oxidation. <i>ACS Catalysis</i> , 2017, 7, 1270-1278.	5.5	53
8085	Hierarchical TiO <sub>2</sub> Submicrorods Improve the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1315-1321.	3.2	48

#	ARTICLE	IF	CITATIONS
8086	Fabrication and Characterization of Front-Illuminated Dye-Sensitized Solar Cells with Anodic Titanium Oxide Nanotubes. <i>Journal of the Electrochemical Society</i> , 2017, 164, H78-H84.	1.3	10
8087	Long-term Stability of Conducting Polymers in Iodine/iodide Electrolytes: Beyond Conventional Platinum Catalysts. <i>Electrochimica Acta</i> , 2017, 227, 95-100.	2.6	9
8088	Influence of geometry and crystal structures of TiO <sub>2</sub> nanotubes on micro Vickers hardness. <i>Materials Letters</i> , 2017, 192, 137-141.	1.3	7
8089	Effects of different electron donating groups on dye regeneration and aggregation in phenothiazine-based dye-sensitized solar cells. <i>Organic Electronics</i> , 2017, 42, 234-243.	1.4	25
8090	Utilization of Naturally Occurring Dyes as Sensitizers in Dye Sensitized Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 539-544.	1.5	38
8091	Luminescence in Electrochemistry. , 2017, , .		9
8092	Effect of annealing on the sub-bandgap, defects and trapping states of ZnO nanostructures. <i>Chemical Physics</i> , 2017, 483-484, 112-121.	0.9	25
8093	Dye sensitizers of polymer using the complex of Cd (II) or Cu (II) with imidazole as auxiliary electron acceptor for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2017, 139, 420-430.	2.0	16
8094	EFFECTS OF TiO <sub>2</sub> FILM THICKNESS AND ELECTROLYTE CONCENTRATION ON PHOTOVOLTAIC PERFORMANCE OF DYE-SENSITIZED SOLAR CELL. <i>Surface Review and Letters</i> , 2017, 24, 1750065.	0.5	13
8095	An efficient quasi-solid state dye sensitized solar cells based on graphene oxide/gelatin gel electrolyte with NiO supported TiO <sub>2</sub> photoanode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 335, 248-258.	2.0	24
8096	Synthesis and their enhanced photoelectrochemical performance of ZnO nanoparticle-loaded CuO dandelion heterostructures under solar light. <i>Applied Surface Science</i> , 2017, 399, 86-94.	3.1	37
8097	Improvement in light harvesting and device performance of dye sensitized solar cells using electrophoretic deposited hollow TiO <sub>2</sub> NPs scattering layer. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 255-262.	3.0	30
8098	Fused heterocycles possessing novel metal-free organic dyes for dye-sensitized solar cells. <i>Tetrahedron</i> , 2017, 73, 278-289.	1.0	17
8099	Facile one-pot synthesis of self-assembled quantum-rod TiO <sub>2</sub> spheres with enhanced charge transport properties for dye-sensitized solar cells and solar water-splitting. <i>Journal of Alloys and Compounds</i> , 2017, 697, 222-230.	2.8	6
8100	Plasmonic copper nanowire@TiO <sub>2</sub> nanostructures for improving the performance of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 342, 292-300.	4.0	36
8101	Deposition of photocatalytic anatase titanium dioxide films by atmospheric dielectric barrier discharge. <i>Surface and Coatings Technology</i> , 2017, 310, 173-179.	2.2	24
8102	Trap-Induced Dispersive Transport and Dielectric Loss in PbS Nanoparticle Films. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 121-134.	1.4	5
8103	Fabrication and characterization of ZnO nanowires array electrodes with high photocurrent densities: Effects of the seed layer calcination time. <i>Materials Chemistry and Physics</i> , 2017, 189, 56-63.	2.0	9



#	ARTICLE	IF	CITATIONS
8104	Fe-doped TiO <sub>2</sub> nanorods with enhanced electrochemical properties as efficient photoanode materials. <i>Journal of Alloys and Compounds</i> , 2017, 708, 862-870.	2.8	51
8105	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. <i>Nature Energy</i> , 2017, 2, .	19.8	298
8106	Hierarchical TiO <sub>2</sub> nanonetwork porous Ti 3D hybrid photocatalysts for continuous-flow photoelectrodegradation of organic pollutants. <i>Catalysis Science and Technology</i> , 2017, 7, 524-532.	2.1	21
8107	Significant light absorption enhancement by a single heterocyclic unit change in the $\pi$ -bridge moiety from thieno[3,2-b]benzothiophene to thieno[3,2-b]indole for high performance dye-sensitized and tandem solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2297-2308.	5.2	200
8108	Controllable reduced black titania with enhanced photoelectrochemical water splitting performance. <i>Dalton Transactions</i> , 2017, 46, 1047-1051.	1.6	45
8109	Energy and fuels from electrochemical interfaces. <i>Nature Materials</i> , 2017, 16, 57-69.	13.3	1,484
8110	Rational design and fabrication of sulfur-doped porous graphene with enhanced performance as a counter electrode in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2280-2287.	5.2	72
8111	International round-robin inter-comparison of dye-sensitized and crystalline silicon solar cells. <i>Journal of Power Sources</i> , 2017, 340, 309-318.	4.0	9
8112	From millimetres to metres: the critical role of current density distributions in photo-electrochemical reactor design. <i>Energy and Environmental Science</i> , 2017, 10, 346-360.	15.6	73
8113	Dependence of the irradiation conditions and crystalline phases of TiO <sub>2</sub> nanoparticles on their toxicity to <i>Daphnia magna</i> . <i>Environmental Science: Nano</i> , 2017, 4, 406-414.	2.2	23
8114	Field Effect Enhanced Hydrogen Evolution Reaction of MoS <sub>2</sub> Nanosheets. <i>Advanced Materials</i> , 2017, 29, 1604464.	11.1	148
8115	Switched Photocurrent on Tin Sulfide-Based Nanoplate Photoelectrodes. <i>ChemSusChem</i> , 2017, 10, 670-674.	3.6	18
8116	Cooperative luminescence mediated near infrared photocatalysis of CaF <sub>2</sub> :Yb@BiVO <sub>4</sub> composites. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 158-164.	10.8	35
8117	High contrast photoelectrochromic device with CdS quantum dot sensitized photoanode. <i>New Journal of Chemistry</i> , 2017, 41, 579-587.	1.4	18
8118	Towards Versatile and Sustainable Hydrogen Production through Electrocatalytic Water Splitting: Electrolyte Engineering. <i>ChemSusChem</i> , 2017, 10, 1318-1336.	3.6	154
8119	Influence of the additional electron-withdrawing unit in $\hat{I}^2$ -functionalized porphyrin sensitizers on the photovoltaic performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2017, 139, 255-263.	2.0	26
8120	Using ATTO Dyes To Probe the Photocatalytic Activity of Au@CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 676-683.	1.5	11
8121	Photoelectrochemical performance of N-doped ZnO branched nanowire photoanodes. <i>Heliyon</i> , 2017, 3, e00423.	1.4	10

#	ARTICLE	IF	CITATIONS
8122	Plasmon enhanced quantum dots fluorescence and energy conversion in water splitting using shell-isolated nanoparticles. <i>Nano Energy</i> , 2017, 42, 232-240.	8.2	28
8123	A one-step method to fabricate novel three-dimensional GaP nanopore arrays for enhanced photoelectrochemical hydrogen production. <i>Chemical Communications</i> , 2017, 53, 12333-12336.	2.2	3
8124	Direct Mapping of Band Positions in Doped and Undoped Hematite during Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5579-5586.	2.1	53
8125	Efficiency enhancement of hybridized solar cells through co-sensitization and fast charge extraction by up-converted polyethylene glycol modified carbon quantum dots. <i>Journal of Power Sources</i> , 2017, 367, 158-166.	4.0	16
8126	A low-cost photoelectrochemical tandem cell for highly-stable and efficient solar water splitting. <i>Nano Energy</i> , 2017, 41, 225-232.	8.2	62
8127	A novel monodisperse metal nanoparticles anchored graphene oxide as Counter Electrode for Dye-Sensitized Solar Cells. <i>Nano Structures Nano Objects</i> , 2017, 12, 41-45.	1.9	46
8128	Fe <sub>2</sub> O <sub>3</sub> /BiOI-Based Photoanode with n-p Heterogeneous Structure for Photoelectric Conversion. <i>Langmuir</i> , 2017, 33, 12065-12071.	1.6	24
8129	Simple fabrication of Si/ZnO core/shell nanowire arrays for photoelectrochemical electrodes. <i>Chemical Physics Letters</i> , 2017, 688, 79-83.	1.2	9
8130	Ab initio study of electronic and optical properties of Fe doped anatase TiO <sub>2</sub> (10 <sup>-1</sup> ) surface. <i>Computational and Theoretical Chemistry</i> , 2017, 1120, 17-23.	1.1	6
8131	Surface-Modified Ta <sub>3</sub> N <sub>5</sub> Nanocrystals with Boron for Enhanced Visible-Light-Driven Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36715-36722.	4.0	20
8132	High Catalytic Activity of W <sub>18</sub> O <sub>49</sub> Nanowire-Reduced Graphite Oxide Composite Counter Electrode for Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2017, 2, 8927-8935.	0.7	12
8133	Surface and Interface Engineering for Photoelectrochemical Water Oxidation. <i>Joule</i> , 2017, 1, 290-305.	11.7	156
8134	Cobalt Porphyrin-Polypyridyl Surface Coatings for Photoelectrosynthetic Hydrogen Production. <i>Inorganic Chemistry</i> , 2017, 56, 12178-12185.	1.9	62
8135	Enhanced Photoelectrochemical Water Oxidation Efficiency of CuWO <sub>4</sub> Photoanodes by Surface Modification with Ag <sub>2</sub> NCN. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26265-26274.	1.5	36
8136	High-Throughput Preparation of Metal Oxide Nanocrystals by Cathodic Corrosion and Their Use as Active Photocatalysts. <i>Langmuir</i> , 2017, 33, 13295-13302.	1.6	30
8137	Structure Confined Porous Mo <sub>2</sub> C for Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1703933.	7.8	148
8138	ZnSe/ZnO Nano-Heterostructures for Enhanced Solar Light Hydrogen Generation. <i>ChemistrySelect</i> , 2017, 2, 9174-9180.	0.7	17
8139	A new recipe for preparing oxidized TiO <sub>2</sub> (110) surfaces: An STM study. <i>Surface Science</i> , 2017, 666, 113-122.	0.8	5

#	ARTICLE	IF	CITATIONS
8140	Semiconductor quantum dot-sensitized rainbow photocathode for effective photoelectrochemical hydrogen generation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11297-11302.	3.3	53
8141	Effect of Extended Conjugation of N-Heterocyclic Carbene-Based Sensitizers on the Performance of Dye-Sensitized Solar Cells. Inorganic Chemistry, 2017, 56, 12987-12995.	1.9	12
8142	Photocatalytic Water Splitting: Quantitative Approaches toward Photocatalyst by Design. ACS Catalysis, 2017, 7, 8006-8022.	5.5	656
8143	Highly electrocatalytic carbon black/copper sulfide composite counter electrodes fabricated by a facile method for quantum-dot-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 23146-23157.	5.2	43
8144	Integration of Energy Harvesting and Electrochemical Storage Devices. Advanced Materials Technologies, 2017, 2, 1700182.	3.0	78
8145	Time-Resolved Spectroscopy of ZnTe Photocathodes for Solar Fuel Production. Journal of Physical Chemistry C, 2017, 121, 22073-22080.	1.5	18
8146	Time-periodic oscillation reaction in an organic-solvent dominated electrolyte. Physical Chemistry Chemical Physics, 2017, 19, 27643-27650.	1.3	2
8147	Few-layered metallic 1T-MoS <sub>2</sub> /TiO <sub>2</sub> with exposed (001) facets: two-dimensional nanocomposites for enhanced photocatalytic activities. Physical Chemistry Chemical Physics, 2017, 19, 28207-28215.	1.3	28
8148	Rigid fused $\pi$ -spacers in D $\pi$ A type molecules for dye-sensitized solar cells: a computational investigation. Journal of Materials Chemistry C, 2017, 5, 11454-11465.	2.7	56
8149	Bio-templated fabrication of metal-free boron carbonitride tubes for visible light photocatalysis. Chemical Communications, 2017, 53, 11988-11991.	2.2	46
8150	New Titanium Dioxide-Based Heterojunction Nanohybrid for Highly Selective Photoelectrochemical Electrochemical Dual-Mode Sensors. ACS Applied Materials & Interfaces, 2017, 9, 37166-37183.	4.0	62
8151	Photoelectrochemistry of colloidal Cu <sub>2</sub> O nanocrystal layers: the role of interfacial chemistry. Journal of Materials Chemistry A, 2017, 5, 22255-22264.	5.2	5
8152	A particulate (ZnSe) <sub>0.85</sub> (CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> ) <sub>0.15</sub> photocathode modified with CdS and ZnS for sunlight-driven overall water splitting. Journal of Materials Chemistry A, 2017, 5, 21242-21248.	5.2	23
8153	Synthesis of anatase nano wire and its application as a functional top layer for alumina membrane. Ceramics International, 2017, 43, 17104-17110.	2.3	6
8154	Selenization of Cu <sub>2</sub> ZnSnS <sub>4</sub> Enhanced the Performance of Dye-Sensitized Solar Cells: Improved Zinc-Site Catalytic Activity for I <sub>3</sub> <sup>-</sup> . ACS Applied Materials & Interfaces, 2017, 9, 37662-37670.	4.0	33
8155	Controlled synthesis of near-infrared quantum dots for optoelectronic devices. Nanoscale, 2017, 9, 16843-16851.	2.8	17
8156	3D FTO Inverse Opals@Hematite@TiO <sub>2</sub> hierarchically structured Photoanode for Photoelectrochemical Water Splitting. Semiconductor Science and Technology, 2017, 32, 114003.	1.0	16
8157	Water splitting catalyzed by titanium dioxide decorated with plasmonic nanoparticles. Pure and Applied Chemistry, 2017, 89, 1817-1827.	0.9	28

#	ARTICLE	IF	CITATIONS
8158	Geometric Design of Scalable Forward Scatterers for Optimally Efficient Solar Transformers. <i>Advanced Materials</i> , 2017, 29, 1702922.	11.1	23
8159	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017, 33, 54-82.	5.6	101
8160	Enhanced Solar Water Oxidation Performance of TiO <sub>2</sub> via Band Edge Engineering: A Tale of Sulfur Doping and Earth-Abundant CZTS Nanoparticles Sensitization. <i>ACS Catalysis</i> , 2017, 7, 8077-8089.	5.5	39
8161	Influence of the nature of the anchoring group on electron injection processes at dye-titania interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29389-29401.	1.3	18
8163	Mediated approaches to Photosystem I-based biophotovoltaics. <i>Current Opinion in Electrochemistry</i> , 2017, 5, 211-217.	2.5	29
8164	Designing Co-Pi Modified One-Dimensional TiO <sub>2</sub> /ZnCo <sub>2</sub> O <sub>4</sub> Nanoheterostructure Photoanode with Reduced Electron-Hole Pair Recombination and Excellent Photoconversion Efficiency (>3%). <i>Journal of Physical Chemistry C</i> , 2017, 121, 25705-25717.	1.5	47
8165	High-Performance Photoelectronic Sensor Using Mesostructured ZnO Nanowires. <i>ACS Sensors</i> , 2017, 2, 1567-1572.	4.0	24
8166	Investigation of the structure and opto-electronic properties of substituted 2,2'-bithiophenes as building blocks: a joint experimental and theoretical study. <i>New Journal of Chemistry</i> , 2017, 41, 14871-14875.	1.4	2
8167	Dye-sensitized photocatalyst for effective water splitting catalyst. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 705-723.	2.8	98
8168	Artificial Photosynthetic Systems for CO <sub>2</sub> Reduction: Progress on Higher Efficiency with Cobalt Complexes as Catalysts. <i>ChemSusChem</i> , 2017, 10, 4393-4402.	3.6	70
8169	Gold Nanobipyramid-Enhanced Hydrogen Sensing with Plasmon Red Shifts Reaching ~140 nm at 2 vol% Hydrogen Concentration. <i>Advanced Optical Materials</i> , 2017, 5, 1700740.	3.6	34
8170	Study of the carrier transfer across the GaNP nanowire electrolyte interface by electron paramagnetic spin trapping. <i>Applied Physics Letters</i> , 2017, 110, 222101.	1.5	2
8171	Enhancing Charge Carrier Lifetime in Metal Oxide Photoelectrodes through Mild Hydrogen Treatment. <i>Advanced Energy Materials</i> , 2017, 7, 1701536.	10.2	104
8172	Preparation of plasmonic monolayer with Ag and Au nanoparticles for dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2017, 687, 152-157.	1.2	12
8173	Counter electrodes in dye-sensitized solar cells. <i>Chemical Society Reviews</i> , 2017, 46, 5975-6023.	18.7	609
8174	The Role of Surface-Bound Dihydropyridine Analogues in Pyridine-Catalyzed CO <sub>2</sub> Reduction over Semiconductor Photoelectrodes. <i>ACS Central Science</i> , 2017, 3, 968-974.	5.3	22
8175	Recycled waste black polyurethane sponges for solar vapor generation and distillation. <i>Applied Energy</i> , 2017, 206, 63-69.	5.1	119
8176	Promoting Charge Separation and Injection by Optimizing the Interfaces of GaN:ZnO Photoanode for Efficient Solar Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30696-30702.	4.0	34

#	ARTICLE	IF	CITATIONS
8177	Polyacrylonitrile gel polymer electrolyte based dye sensitized solar cells for a prototype solar panel. <i>Electrochimica Acta</i> , 2017, 251, 223-234.	2.6	60
8178	Titanium Oxynitride Thin Films with Tunable Double Epsilon-Near-Zero Behavior for Nanophotonic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29857-29862.	4.0	91
8179	Photocatalytic Synthesis of CdS(core)@CdSe(shell) Quantum Dots with a Heteroepitaxial Junction on TiO <sub>2</sub> : Photoelectrochemical Hydrogen Generation from Water. <i>ChemPhysChem</i> , 2017, 18, 2840-2845.	1.0	13
8180	Studies on the optical and photoelectric properties of anthocyanin and chlorophyll as natural co-sensitizers in dye sensitized solar cell. <i>Optical Materials</i> , 2017, 73, 172-178.	1.7	40
8181	Significantly improved charge collection and interface injection in 3D BiVO <sub>4</sub> based multilayered core@shell nanowire photocatalysts. <i>Nanoscale</i> , 2017, 9, 14015-14022.	2.8	23
8182	Dimensionally integrated $\pm$ -MnO <sub>2</sub> /Carbon black binary complex as platinum free counter electrode for dye sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 348, 33-40.	2.0	11
8183	Impact of Gd ions from the lattice of TiO <sub>2</sub> nanoparticles on the formation of reactive oxygen species during the degradation of RhB under visible light irradiation. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 61-68.	1.9	20
8184	Enhanced Performance of Pristine Ta <sub>3</sub> N <sub>5</sub> Photoanodes for Solar Water Splitting by Modification with Fe@Ni@Co Mixed-Metal Oxide Cocatalysts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20093-20100.	1.5	30
8185	Theoretical Insights into Proton-Coupled Electron Transfer from a Photoreduced ZnO Nanocrystal to an Organic Radical. <i>Nano Letters</i> , 2017, 17, 5762-5767.	4.5	27
8186	First-principles investigation on the structural, elastic and electronic properties and mechanism on the photocatalytic properties for SrNbO <sub>3</sub> and Sr <sub>0.97</sub> NbO <sub>3</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 403-409.	1.9	10
8187	The solution-phase process of a g-C <sub>3</sub> N <sub>4</sub> /BiVO <sub>4</sub> dyad to a large-area photoanode: interfacial synergy for highly efficient water oxidation. <i>Chemical Communications</i> , 2017, 53, 10544-10547.	2.2	19
8188	In situ growth of a TiO <sub>2</sub> layer on a flexible Ti substrate targeting the interface recombination issue of BiVO <sub>4</sub> photoanodes for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20195-20201.	5.2	22
8189	Optical properties of magnetic photonic crystals with an arbitrary magnetization orientation. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 125, 22-34.	0.2	7
8190	Mg-doped Ta <sub>3</sub> N <sub>5</sub> nanorods coated with a conformal CoOOH layer for water oxidation: bulk and surface dual modification of photoanodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20439-20447.	5.2	49
8191	Recent advances and insights in dye-sensitized NiO photocathodes for photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21077-21113.	5.2	90
8192	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21887-21903.	1.5	30
8193	Energy level alignment at semiconductor@water interfaces from atomistic and continuum solvation models. <i>RSC Advances</i> , 2017, 7, 43660-43670.	1.7	16
8194	Effect of Indium doping on the photoelectrochemical and photocatalytic properties of zinc sulphide. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 226, 57-63.	1.7	13

#	ARTICLE	IF	CITATIONS
8195	Enhanced light harvesting with novel photon upconverted Y <sub>2</sub> CaZnO <sub>5</sub> :Er <sup>3+</sup> /Yb <sup>3+</sup> nanophosphors for dye sensitized solar cells. <i>Solar Energy</i> , 2017, 157, 956-965.	2.9	33
8196	<i>s</i> -Symmetric Triphenylamine-Linked Bisthiazole-Based Metal-Free Donor-Acceptor Organic Dye for Efficient ZnO Nanoparticles-Based Dye-Sensitized Solar Cells: Synthesis, Theoretical Studies, and Photovoltaic Properties. <i>ACS Omega</i> , 2017, 2, 5981-5991.	1.6	5
8197	Double-anchoring organic dyes for dye-sensitized solar cells: the opto-electronic property and performance. <i>New Journal of Chemistry</i> , 2017, 41, 12808-12829.	1.4	13
8198	Actualizing efficient photocatalytic water oxidation over SrTaO <sub>2</sub> N by Na modification. <i>Catalysis Science and Technology</i> , 2017, 7, 4640-4647.	2.1	27
8199	Studies on graphene zinc-oxide nanocomposites photoanodes for high-efficient dye-sensitized solar cells. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	7
8200	Unique photoelectrocatalytic properties of a diphenyl-as-triazine-containing ruthenium(II) complex assembled on cadmium sulfide anode and cuprous oxide cathode towards ascorbate oxidation and oxygen reduction. <i>Electrochimica Acta</i> , 2017, 252, 568-577.	2.6	3
8201	Metal oxide sandwiched dye-sensitized solar cells with enhanced power conversion efficiency fabricated by a facile and cost effective method. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 382-388.	1.9	8
8202	Improved charge separation efficiency of hematite photoanodes by coating an ultrathin p-type LaFeO <sub>3</sub> overlayer. <i>Nanotechnology</i> , 2017, 28, 394003.	1.3	9
8203	Molecular Control of the Band Edge Movement and the Recombination Process in Donor-Acceptor Hemicyanine-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21836-21847.	1.5	6
8204	Unraveling the Intrinsic Structures that Influence the Transport of Charges in TiO <sub>2</sub> Electrodes. <i>Advanced Energy Materials</i> , 2017, 7, 1700886.	10.2	28
8205	Synthesis and photocatalysis of flaky flower TiO <sub>2</sub> with sphere structure. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 84, 283-289.	1.1	5
8206	Photoelectrochemical properties of BiMnO <sub>3</sub> thin films and nanostructures. <i>Journal of Power Sources</i> , 2017, 365, 162-168.	4.0	25
8207	Orthogonally Functionalized Donor/Acceptor Homo- and Heterodimeric Dyes for Dye-Sensitized Solar Cells: An Approach to Introduce Panchromaticity and Control the Charge Recombination. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34875-34890.	4.0	34
8208	Photoelectrolysis Using Type-II Semiconductor Heterojunctions. <i>Scientific Reports</i> , 2017, 7, 11638.	1.6	25
8209	Efficient hydrogen production from MIL-53(Fe) catalyst-modified Mo:BiVO <sub>4</sub> photoelectrodes. <i>Catalysis Science and Technology</i> , 2017, 7, 4971-4976.	2.1	41
8210	Multiphase TiO <sub>2</sub> nanostructures: a review of efficient synthesis, growth mechanism, probing capabilities, and applications in bio-safety and health. <i>RSC Advances</i> , 2017, 7, 44199-44224.	1.7	142
8211	Highly uniform hierarchical Zn <sub>2</sub> SnO <sub>4</sub> microspheres for the construction of high performance dye-sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 43403-43409.	1.7	12
8212	Tailoring photoelectrochemical properties of semiconducting transition metal dichalcogenide nanolayers with porphyrin functionalization. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11233-11238.	2.7	28

#	ARTICLE	IF	CITATIONS
8213	A New Series of Heteroleptic Cd(II) Diimine-ferrocenyl Dithiocarbamate Complexes which Successfully Co-sensitizes TiO <sub>2</sub> Photoanode with Ru N719 Dye in DSSC. <i>ChemistrySelect</i> , 2017, 2, 8301-8311.	0.7	6
8214	Ruddlesden-Popper compounds (SrO)(LaFeO <sub>3</sub> ) <sub>n</sub> (n = 1 and 2) as p-type semiconductors for photocatalytic hydrogen production. <i>Electrochimica Acta</i> , 2017, 252, 138-146.	2.6	29
8215	Cold sprayed WO <sub>3</sub> and TiO <sub>2</sub> electrodes for photoelectrochemical water and methanol oxidation in renewable energy applications. <i>Dalton Transactions</i> , 2017, 46, 12811-12823.	1.6	21
8216	Effect of electron-deficient linkers on the physical and photovoltaic properties of dithienopyrrole-based organic dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18404-18417.	1.1	2
8217	Thermoresponsive Memory Behavior in Metallosupramolecular Polymer-Based Ternary Memory Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32930-32938.	4.0	25
8218	Modifying Titania Using the Molten-Salt-Assisted Self-Assembly Process for Cadmium Selenide Quantum Dot-Sensitized Photoanodes. <i>ACS Omega</i> , 2017, 2, 4982-4990.	1.6	6
8219	Dye aggregation in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19541-19559.	5.2	240
8220	Synthesis of nano-sized titania using new chemically modified Schiff base complexes of titanium(IV) isopropoxide through sol-gel technology. <i>Materials Research Innovations</i> , 2017, , 1-6.	1.0	0
8221	Mechanisms of molecular water oxidation in solution and on oxide surfaces. <i>Chemical Society Reviews</i> , 2017, 46, 6148-6169.	18.7	160
8222	Water Splitting via Decoupled Photocatalytic Water Oxidation and Electrochemical Proton Reduction Mediated by Electron-Coupled Proton Buffer. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2666-2669.	1.7	19
8223	Investigation on the Interface Modification of TiO <sub>2</sub> Surfaces by Functional Co-Adsorbents for High-Efficiency Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2017, 18, 2724-2731.	1.0	26
8224	Experimental and Computational Investigation of the Optical, Electronic, and Electrochemical Properties of Hydrogenated Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 16059-16065.	1.5	11
8225	Multidimensional Anodized Titanium Foam Photoelectrode for Efficient Utilization of Photons in Mesoscopic Solar Cells. <i>Small</i> , 2017, 13, 1701458.	5.2	12
8226	Toward non-precious nanocomposite photocatalyst: An efficient ternary photoanode TiO <sub>2</sub> nanotube/Co <sub>9</sub> S <sub>8</sub> /polyoxometalate for photoelectrochemical water splitting. <i>Applied Catalysis A: General</i> , 2017, 544, 137-144.	2.2	28
8227	DFT Study on Reaction Mechanism of Nitric Oxide to Ammonia and Water on a Hydroxylated Rutile TiO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16373-16380.	1.5	11
8228	Synthesis and photovoltaic property characterization of CeO <sub>2</sub> film deposited on ITO substrate for dye sensitized solar cell. <i>Materials Research Innovations</i> , 0, , 1-7.	1.0	13
8229	Phosphorene quantum dot-fullerene nanocomposites for solar energy conversion: An unexplored inorganic-organic nanohybrid with novel photovoltaic properties. <i>Chemical Physics Letters</i> , 2017, 685, 16-22.	1.2	25
8230	Formation of urchin-like ZnO nanostructures by sol-gel electrophoretic deposition for photocatalytic application. <i>Journal of Alloys and Compounds</i> , 2017, 725, 291-301.	2.8	38

#	ARTICLE	IF	CITATIONS
8231	Structures of defects on anatase TiO <sub>2</sub> (001) surfaces. <i>Nanoscale</i> , 2017, 9, 11553-11565.	2.8	28
8232	Double-shell CeO <sub>2</sub> @TiO <sub>2</sub> hollow spheres composites with enhanced light harvesting and electron transfer in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 722, 864-871.	2.8	16
8233	Theoretical evaluation of the structure-activity relationship in graphene-based electrocatalysts for hydrogen evolution reactions. <i>RSC Advances</i> , 2017, 7, 27033-27039.	1.7	21
8234	Laser-Induced Surface Modification at Anatase TiO <sub>2</sub> Nanotube Array Photoanodes for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17121-17128.	1.5	34
8235	Enhanced Photocatalytic Activity of Core-Shell ZnFe <sub>2</sub> O <sub>4</sub> @ZnO Nanoparticles for Visible Light Photodegradation. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	0
8236	Contaminants of emerging concern: a review of new approach in AOP technologies. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 414.	1.3	194
8237	Plasmonic silver nanowires for higher efficiency dye-sensitized solar cells. <i>Materials Today Energy</i> , 2017, 5, 237-242.	2.5	13
8238	Dye sensitized solar cells (DSSCs) based on bulky tert-octylphenoxy-carboxyphenyl substituted phthalocyanine without the presence of co-adsorbents. <i>Inorganica Chimica Acta</i> , 2017, 468, 327-333.	1.2	16
8239	Well-designed Te/SnS <sub>2</sub> /Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. <i>Nano Energy</i> , 2017, 39, 539-545.	8.2	61
8240	Nanostructured TiO <sub>2</sub> thin films for DSSCs prepared by sol gel technique. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
8241	Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1702090.	7.8	79
8242	Anchovy-derived nitrogen and sulfur co-doped porous carbon materials for high-performance supercapacitors and dye-sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 35565-35574.	1.7	31
8243	Multi-shelled TiO <sub>2</sub> /Fe <sub>2</sub> TiO <sub>5</sub> heterostructured hollow microspheres for enhanced solar water oxidation. <i>Nano Research</i> , 2017, 10, 3920-3928.	5.8	94
8244	Emerging Semitransparent Solar Cells: Materials and Device Design. <i>Advanced Materials</i> , 2017, 29, 1700192.	11.1	200
8245	Toward Highly Efficient Nanostructured Solar Cells Using Concurrent Electrical and Optical Design. <i>Advanced Energy Materials</i> , 2017, 7, 1602385.	10.2	34
8246	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602803.	10.2	147
8247	Study of the morphological, optical, structural and photoelectrochemical properties of TiO <sub>2</sub> nanorods grown with various precursor concentrations. <i>Electronic Materials Letters</i> , 2017, 13, 497-504.	1.0	5
8248	Intertwined TiN nanofibers used as a high-performance, non-noble-metal electrocatalyst for dye-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 570-575.	1.9	2



#	ARTICLE	IF	CITATIONS
8249	Effect of calcination temperature on structure and photocatalytic activity under UV and visible light of nanosheets from low-cost magnetic leucoxene mineral. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017, 25, 38-45.	1.0	3
8250	A novel strategy to fabricate plasmonic Ag/AgBr nano-particle and its enhanced visible photocatalytic performance and mechanism for degradation of acetaminophen. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 176-183.	2.7	18
8251	Effect of Au nanoparticles/deformed TiO <sub>2</sub> ; aggregated photoanode with various amounts of Au nanoparticles for dye sensitized solar cells. , 2017, , .		0
8252	Nanostructured-based WO <sub>3</sub> photocatalysts: recent development, activity enhancement, perspectives and applications for wastewater treatment. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 2519-2542.	1.8	138
8253	Induced dipole in vanadium-doped zinc oxide nanosheets and its effects on photoelectrochemical water splitting. <i>Nanotechnology</i> , 2017, 28, 395403.	1.3	11
8254	Metal-organic materials as efficient additives in polymer electrolytes for quasi-solid-state dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 726, 1286-1294.	2.8	19
8255	Visible-Light Self-Powered Photodetector and Recoverable Photocatalyst Fabricated from Vertically Aligned Sn <sub>3</sub> O <sub>4</sub> Nanoflakes on Carbon Paper. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19036-19043.	1.5	43
8256	Two-Dimensional Hexagonal Sheet of TiO <sub>2</sub> . <i>Chemistry of Materials</i> , 2017, 29, 8594-8603.	3.2	69
8257	Comparing photoelectrochemical water oxidation, recombination kinetics and charge trapping in the three polymorphs of TiO <sub>2</sub> . <i>Scientific Reports</i> , 2017, 7, 2938.	1.6	46
8258	Tantalum (Oxy)Nitride: Narrow Bandgap Photocatalysts for Solar Hydrogen Generation. <i>Engineering</i> , 2017, 3, 365-378.	3.2	51
8259	Chasing the Achilles™ Heel in Hybrid Systems of Diruthenium Water Oxidation Catalysts Anchored on Indium Tin Oxide: The Stability of the Anchor. <i>ACS Catalysis</i> , 2017, 7, 6235-6244.	5.5	17
8260	A graphene quantum dot decorated SrRuO <sub>3</sub> mesoporous film as an efficient counter electrode for high-performance dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17848-17855.	5.2	217
8261	Theoretical study of new potential semiconductor surfaces performance for dye sensitized solar cell usage: TiO <sub>2</sub> -B (001), (100) and H <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> (100). <i>Applied Surface Science</i> , 2017, 426, 1182-1189.	3.1	23
8262	Synthesis and physical-chemical characterization of nanocrystalline Ta modified TiO <sub>2</sub> as potential support of electrocatalysts for fuel cells and electrolyzers. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28011-28021.	3.8	5
8263	Defective and "Disordered" Hortensia-like Layered MnO <sub>x</sub> as an Efficient Electrocatalyst for Water Oxidation at Neutral pH. <i>ACS Catalysis</i> , 2017, 7, 6311-6322.	5.5	62
8264	On the performance of a photosystem II reaction centre-based photocell. <i>Chemical Science</i> , 2017, 8, 6871-6880.	3.7	8
8265	Facile Green Synthesis of WO <sub>3</sub> ·H <sub>2</sub> O Nanoplates and WO <sub>3</sub> Nanowires with Enhanced Photoelectrochemical Performance. <i>Crystal Growth and Design</i> , 2017, 17, 4949-4957.	1.4	58
8266	Facile synthesis of AuPd/g-C <sub>3</sub> N <sub>4</sub> nanocomposite: An effective strategy to enhance photocatalytic hydrogen evolution activity. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22765-22775.	3.8	67

#	ARTICLE	IF	CITATIONS
8267	Enhanced Photoelectrochemical Water Oxidation Performance of Fe <sub>2</sub> O <sub>3</sub> Nanorods Array by S Doping. ACS Sustainable Chemistry and Engineering, 2017, 5, 7502-7506.	3.2	120
8268	3D Si/ITO/WO <sub>3</sub> photoelectrode with a micropost array structure for photocatalysis enhancement. Journal of Micromechanics and Microengineering, 2017, 27, 115011.	1.5	3
8269	Synthesis of highly active cobalt molybdenum sulfide nanosheets by a one-step hydrothermal method for use in dye-sensitized solar cells. Journal of Materials Science, 2017, 52, 13541-13551.	1.7	20
8270	Integration of inverse nanocone array based bismuth vanadate photoanodes and bandgap-tunable perovskite solar cells for efficient self-powered solar water splitting. Journal of Materials Chemistry A, 2017, 5, 19091-19097.	5.2	55
8271	Molybdenum Oxides – From Fundamentals to Functionality. Advanced Materials, 2017, 29, 1701619.	11.1	447
8272	Photoelectrochemical Solar Cells with Semiconductor Nanoparticles and Liquid Electrolytes: a Review. Theoretical and Experimental Chemistry, 2017, 53, 145-179.	0.2	7
8273	Incorporating a molecular co-catalyst with a heterogeneous semiconductor heterojunction photocatalyst: Novel mechanism with two electron-transfer pathways for enhanced solar hydrogen production. Journal of Catalysis, 2017, 353, 274-285.	3.1	35
8274	In situ study of spray deposited titania photoanodes for scalable fabrication of solid-state dye-sensitized solar cells. Nano Energy, 2017, 40, 317-326.	8.2	35
8275	Perylene Diimide Aggregates on Sb-Doped SnO <sub>2</sub> : Charge Transfer Dynamics Relevant to Solar Fuel Generation. Journal of Physical Chemistry C, 2017, 121, 17737-17745.	1.5	22
8276	Compact carbon nitride based copolymer films with controllable thickness for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2017, 5, 19062-19071.	5.2	43
8277	Template-engineered epitaxial BiVO <sub>4</sub> photoanodes for efficient solar water splitting. Journal of Materials Chemistry A, 2017, 5, 18831-18838.	5.2	42
8278	A systematic study of the relationship among the morphological, structural and photoelectrochemical properties of ZnO nanorods grown using the microwave chemical bath deposition method. Journal of the Korean Physical Society, 2017, 71, 171-177.	0.3	3
8279	Dual Effect in Fluorine-Doped Hematite Nanocrystals for Efficient Water Oxidation. ChemSusChem, 2017, 10, 4465-4471.	3.6	51
8280	Enhancing the photoelectrochemical response of TiO <sub>2</sub> nanotubes through their nanodecoration by pulsed-laser-deposited Ag nanoparticles. Journal of Applied Physics, 2017, 122, .	1.1	22
8281	Investigation of electronic band structure and charge transfer mechanism of oxidized three-dimensional graphene as metal-free anodes material for dye sensitized solar cell application. Chemical Physics Letters, 2017, 685, 442-450.	1.2	6
8282	Role of Cl Ion Desorption in Photocurrent Enhancement of the Annealed Rutile Single-Crystalline TiO <sub>2</sub> Nanorod Arrays. Journal of Physical Chemistry C, 2017, 121, 18892-18899.	1.5	15
8283	Facile and fast fabrication of iron-phosphate supported on nickel foam as a highly efficient and stable oxygen evolution catalyst. Journal of Materials Chemistry A, 2017, 5, 18627-18633.	5.2	59
8284	Van der Waals Interaction Really Matters: Energetics of Benzoic Acid on TiO <sub>2</sub> Rutile Surfaces. Journal of Physical Chemistry C, 2017, 121, 17207-17214.	1.5	14

#	ARTICLE	IF	CITATIONS
8285	Polydopamine-filled bacterial nanocellulose as a biodegradable interfacial photothermal evaporator for highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18397-18402.	5.2	257
8286	Computational study of TiO <sub>2</sub> Brookite (100), (010) and (210) surface doped with Ruthenium for application in Dye Sensitised Solar Cells. <i>Journal of Physics: Conference Series</i> , 2017, 905, 012012.	0.3	2
8287	Insight into plasmonic hot-electron transfer and plasmon molecular drive: new dimensions in energy conversion and nanofabrication. <i>NPG Asia Materials</i> , 2017, 9, e454-e454.	3.8	176
8288	Improvement of Transparent Conducting Performance on Oxygen-Activated Fluorine-Doped Tin Oxide Electrodes Formed by Horizontal Ultrasonic Spray Pyrolysis Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44584-44592.	4.0	52
8289	Sacrificial Interlayer for Promoting Charge Transport in Hematite Photoanode. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42723-42733.	4.0	61
8290	A review of transition metal chalcogenide/graphene nanocomposites for energy storage and conversion. <i>Chinese Chemical Letters</i> , 2017, 28, 2180-2194.	4.8	176
8291	Perovskite solar cell " electrochemical double layer capacitor interplay. <i>Electrochimica Acta</i> , 2017, 258, 825-833.	2.6	18
8292	Electrochemical Response of Bound Electrolyte Ions at Oriented Hematite Surfaces: A Local Electrochemical Impedance Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27976-27982.	1.5	10
8293	Assembly of protonated mesoporous carbon nitrides with co-catalytic [Mo <sub>3</sub> S <sub>13</sub> ] <sup>2+</sup> clusters for photocatalytic hydrogen production. <i>Chemical Communications</i> , 2017, 53, 13221-13224.	2.2	40
8294	Local Lewis Acidity of (TiO <sub>2</sub> ) <sub>n</sub> (n = 7-10) Nanoparticles Characterized by DFT-Based Descriptors: Tools for Catalyst Design. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27483-27492.	1.5	14
8295	Characterization of LPD-TiO <sub>2</sub> compact layer in ZnO nano-rods photoelectrode for dye-sensitized solar cell. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	7
8296	Enhanced Photocatalytic Activity of an Acid-modified TiO <sub>2</sub> Surface for Degradation of the Azo Dye Remazol Red. <i>ChemistrySelect</i> , 2017, 2, 10371-10374.	0.7	3
8297	Computational insights into charge transfer across functionalized semiconductor surfaces. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 681-692.	2.8	12
8298	Revealing the Influence of Doping and Surface Treatment on the Surface Carrier Dynamics in Hematite Nanorod Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 41265-41272.	4.0	45
8299	Nanofillers in the electrolytes of dye-sensitized solar cells " A short review. <i>Coordination Chemistry Reviews</i> , 2017, 353, 58-112.	9.5	50
8300	CdTe-Based Photoanode for Oxygen Evolution from Water under Simulated Sunlight. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5712-5717.	2.1	23
8301	Structured Iron Diselenide-Derived Oxide: A Highly Efficient Electrocatalyst for Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40351-40359.	4.0	61
8302	Vertical Bi <sub>2</sub> Se <sub>3</sub> flake array as a Pt-free counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 51958-51964.	1.7	4

#	ARTICLE	IF	CITATIONS
8303	Electron Transfer Assisted by Vibronic Coupling from Multiple Modes. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6000-6009.	2.3	41
8304	Understanding Photocharging Effects on Bismuth Vanadate. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 22083-22087.	4.0	47
8305	Development of stable current collectors for large area dye-sensitized solar cells. <i>Applied Surface Science</i> , 2017, 423, 549-556.	3.1	8
8306	Enhanced hydrogen evolution reaction of MoO <sub>3</sub> /Mo cathode by loading small amount of Pt nanoparticles in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17030-17037.	3.8	19
8307	Schottky barrier and band edge engineering via the interfacial structure and strain for the Pt/TiO <sub>2</sub> heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18750-18756.	1.3	18
8308	Influence of Diffusion Coefficient of Cobalt Redox Mediator Using Triphenylamine Dyes with Various Number of Anchoring Groups: Photovoltaic Performance of DSSCs. <i>Electrocatalysis</i> , 2017, 8, 414-421.	1.5	3
8309	Convex-nanorods of Fe <sub>3</sub> O <sub>4</sub> /CQDs heterojunction photoanode synthesized by a facile hydrothermal method for highly efficient water oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19654-19663.	3.8	28
8310	Catalysis in Fuel Cells (PEMC, SOFC). <i>Green Energy and Technology</i> , 2017, , 37-58.	0.4	0
8311	Enhanced efficiency of DSSC through AC-electrophoretic hybridization of TiO <sub>2</sub> nanoparticle and nanotube. <i>Electrochimica Acta</i> , 2017, 247, 410-419.	2.6	15
8312	Combustion synthesized CeO <sub>2</sub> as an anodic material in dye sensitized solar cells. <i>Materials Research Bulletin</i> , 2017, 94, 483-488.	2.7	23
8313	Molecular-scale observation of YD2-o-C <sub>8</sub> self-assembled monolayer on TiO <sub>2</sub> (110). <i>Surface Science</i> , 2017, 665, 103-107.	0.8	1
8314	Electron-emission materials: Advances, applications, and models. <i>MRS Bulletin</i> , 2017, 42, 488-492.	1.7	41
8315	Influence of a π-A system through a linked unit of double and triple bonds in a triarylene bridge for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 8016-8025.	1.4	11
8316	Graphenes as additives in photoelectrocatalysis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16522-16536.	5.2	23
8317	Self-assembly of Janus disks induced by small molecules in two-dimensional systems. <i>Journal of Chemical Physics</i> , 2017, 147, 014904.	1.2	11
8318	Arrays of ZnO/MoS <sub>2</sub> nanocables and MoS <sub>2</sub> nanotubes with phase engineering for bifunctional photoelectrochemical and electrochemical water splitting. <i>Chemical Engineering Journal</i> , 2017, 328, 474-483.	6.6	103
8319	Quantitative Analysis of Reactive Oxygen Species Photogenerated on Metal Oxide Nanoparticles and Their Bacteria Toxicity: The Role of Superoxide Radicals. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10137-10145.	4.6	161
8320	Au Nanoparticles coupled Three-dimensional Macroporous BiVO <sub>4</sub> /SnO <sub>2</sub> Inverse Opal Heterostructure For Efficient Photoelectrochemical Water Splitting. <i>Electrochimica Acta</i> , 2017, 248, 593-602.	2.6	50

#	ARTICLE	IF	CITATIONS
8321	Metal doped tubular carbon nitride (tC <sub>3</sub> N <sub>4</sub> ) based hematite photoanode for enhanced photoelectrochemical performance. <i>Vacuum</i> , 2017, 146, 570-577.	1.6	13
8322	A redox-controlled electrolyte for plasmonic enhanced dye-sensitized solar cells. <i>Nanoscale</i> , 2017, 9, 10940-10947.	2.8	3
8323	Novel BODIPY dyes with electron donor variety for dye-sensitized solar cells. <i>RSC Advances</i> , 2017, 7, 33975-33985.	1.7	24
8324	Tailoring catalytic activities of transition metal disulfides for water splitting. <i>FlatChem</i> , 2017, 4, 68-80.	2.8	24
8325	Nitrogen doped carbon quantum dots as a green luminescent sensitizer to functionalize ZnO nanoparticles for enhanced photovoltaic conversion devices. <i>Materials Research Bulletin</i> , 2017, 94, 399-407.	2.7	39
8326	Engineered core-shell nanofibers for electron transport study in dye-sensitized solar cells. <i>AIP Advances</i> , 2017, 7, 065008.	0.6	4
8327	Graphene-loaded porous ZnCo <sub>2</sub> O <sub>4</sub> nanosheets composite as counter electrode for dye-sensitized solar cells. <i>Materials Letters</i> , 2017, 207, 117-120.	1.3	13
8328	Asymmetric Cyclometalated Ru <sup>II</sup> Polypyridyl-Type Complexes with $\pi$ -Extended Carbanionic Donor Sets. <i>Inorganic Chemistry</i> , 2017, 56, 7720-7730.	1.9	7
8329	An integrative method to prepare low-platinum/fluorine doped tin oxide counter electrode for cost-effective dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 155, 593-600.	2.9	2
8330	A highly stable and efficient quasi solid state dye sensitized solar cell based on Polymethyl methacrylate (PMMA)/Carbon black (CB) polymer gel electrolyte with improved open circuit voltage. <i>Electrochimica Acta</i> , 2017, 247, 216-228.	2.6	25
8331	Growth of bismuth oxyhalide nanoplates on self-standing TiO <sub>2</sub> nanowire film exhibiting enhanced photoelectrochemical performances. <i>Electrochimica Acta</i> , 2017, 247, 646-656.	2.6	9
8332	The Preparation, Characterization and Photocatalytic Activity of Mixed P25/CeO <sub>2</sub> Nanocomposites. <i>Journal of Electronic Materials</i> , 2017, 46, 1836-1841.	1.0	3
8333	Integration of wind into running vehicles to meet its total energy demand. <i>Energy, Ecology and Environment</i> , 2017, 2, 35-48.	1.9	29
8334	Azafluorene Ornamented Thiazine Based Novel Fused Heterocyclic Organic Dyes for Competent Molecular Photovoltaics. <i>Electrochimica Acta</i> , 2017, 246, 1052-1064.	2.6	15
8335	Surface engineering of graphitic carbon nitride polymers with cocatalysts for photocatalytic overall water splitting. <i>Chemical Science</i> , 2017, 8, 5261-5274.	3.7	299
8336	A DFT+U investigation on methylamine decomposition catalyzed by Pt <sub>4</sub> cluster supported on oxygen defective rutile(110) TiO <sub>2</sub> . <i>Chemical Research in Chinese Universities</i> , 2017, 33, 406-414.	1.3	2
8337	Iron-Induced Activation of Ordered Mesoporous Nickel Cobalt Oxide Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21225-21233.	4.0	96
8338	ZnO Photoanode Effect on the Efficiency Performance of Organic Based Dye Sensitized Solar Cell. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 209, 012028.	0.3	10

#	ARTICLE	IF	CITATIONS
8339	A Mechanistic Model for Predicting Lung Inflammogenicity of Oxide Nanoparticles. <i>Toxicological Sciences</i> , 2017, 159, 339-353.	1.4	7
8340	Analysis of structural defects in the CdSe x S1 $\hat{a}$ €“ x nanocrystals. <i>Technical Physics</i> , 2017, 62, 465-469.	0.2	5
8341	Enhanced photovoltaic performance of dye-sensitized solar cells based on nickel oxide supported on nitrogen-doped graphene nanocomposite as a photoanode. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 570-578.	5.0	25
8342	Highly efficient Pt nanoparticles and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml31" display="inline" overflow="scroll" altimg="si1.gif" \rangle \langle \text{mml:mi} \rangle \text{f} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -MWCNT nanocomposites based counter electrodes for dye-sensitized solar cells. <i>Nano Structures Nano Objects</i> , 2017, 11, 39-45.	1.9	45
8343	New carbazole based metal-free organic dyes with D- $\hat{I}$ -A- $\hat{I}$ -A architecture for DSSCs: Synthesis, theoretical and cell performance studies. <i>Solar Energy</i> , 2017, 153, 600-610.	2.9	87
8344	Facile and controllable fabrication of multifunctional nanohybrid films composed of reduced graphene oxide and titanium dioxide through layer-by-layer assembly. <i>Thin Solid Films</i> , 2017, 636, 359-366.	0.8	1
8345	Photoelectrochemical Performance of the Ag(III)-Based Oxygen-Evolving Catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 23800-23809.	4.0	17
8346	Picomolar Detection of Hydrogen Peroxide using Enzyme-free Inorganic Nanoparticle-based Sensor. <i>Scientific Reports</i> , 2017, 7, 1324.	1.6	30
8347	Spatiotemporal distribution of thermal plasma temperature and precursor formation in a torch during TiO <sub>2</sub> nanopowder synthesis. <i>Plasma Sources Science and Technology</i> , 2017, 26, 075008.	1.3	13
8348	Hydrothermal synthesis of brookite TiO <sub>2</sub> nanoparticles for dye-sensitized solar cell. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2655-2663.	1.2	2
8349	Hydrothermal influence over the peptized TiO <sub>2</sub> nanocrystals for anodic performance in the lithium ion battery. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 363-369.	1.9	1
8350	Electrodeposition of Cu <sub>2</sub> O: growth, properties, and applications. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1999-2020.	1.2	67
8351	Iron(II) and ruthenium(II) complexes with polypyridine derivatives as sensitizers for DSSC: the structure and spectral properties, as studied by quantum chemistry methods. <i>Russian Chemical Bulletin</i> , 2017, 66, 23-29.	0.4	5
8352	Hierarchical porous photoanode based on acid boric catalyzed sol for dye sensitized solar cells. <i>Applied Surface Science</i> , 2017, 394, 37-46.	3.1	9
8353	Temperature dependence of electrocatalytic water oxidation: a triple device model with a photothermal collector and photovoltaic cell coupled to an electrolyzer. <i>Faraday Discussions</i> , 2017, 198, 169-179.	1.6	32
8354	Harvesting Solar Energy Using Inexpensive and Benign Materials. , 2017, , 1537-1580.		1
8355	Photoelectrochemical and structural properties of TiO <sub>2</sub> nanotubes and nanorods grown on FTO substrate: Comparative study between electrochemical anodization and hydrothermal method used for the nanostructures fabrication. <i>Catalysis Today</i> , 2017, 287, 130-136.	2.2	42
8356	Graphene oxide coupled carbon nitride homo-heterojunction photocatalyst for enhanced hydrogen production. <i>Materials Chemistry Frontiers</i> , 2017, 1, 562-571.	3.2	38

#	ARTICLE	IF	CITATIONS
8357	Enhanced photovoltage (Voc) of nano-structured zinc tin oxide (ZTO) working electrode prepared by a green hydrothermal route for dye-sensitized solar cell (DSSC). Journal of Materials Science: Materials in Electronics, 2017, 28, 3789-3795.	1.1	14
8358	Minimizing electron-hole recombination in modified TiO <sub>2</sub> photocatalysis: electron transfer to solution as rate-limiting step in organic compounds degradation. Journal of Physical Organic Chemistry, 2017, 30, e3659.	0.9	7
8359	Functional Iron Oxides and Their Heterostructures. , 2017, , 1-28.		0
8360	Novel triple-layered photoanodes based on TiO <sub>2</sub> nanoparticles, TiO <sub>2</sub> nanotubes, and I <sup>2</sup> -NaYF <sub>4</sub> :Er <sup>3+</sup> ,Yb <sup>3+</sup> @SiO <sub>2</sub> @TiO <sub>2</sub> for highly efficient dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2017, 160, 361-371.	3.0	32
8361	Highly efficient photocatalytic and photoelectrocatalytic activity of solar light driven WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite. Solar Energy Materials and Solar Cells, 2017, 160, 484-493.	3.0	137
8362	Vertically aligned two-dimensional SnS <sub>2</sub> nanosheets with a strong photon capturing capability for efficient photoelectrochemical water splitting. Journal of Materials Chemistry A, 2017, 5, 1989-1995.	5.2	117
8364	Spontaneous Electroless Galvanic Cell Deposition of 3D Hierarchical and Interlaced Sâ€“Mâ€“S Heterostructures. Advanced Materials, 2017, 29, 1604417.	11.1	16
8365	Bi-functional ferroelectric BiFeO <sub>3</sub> passivated BiVO <sub>4</sub> photoanode for efficient and stable solar water oxidation. Nano Energy, 2017, 31, 28-36.	8.2	150
8366	Nanofiber-supported CuS nanoplatelets as high efficiency counter electrodes for quantum dot-based photoelectrochemical hydrogen production. Materials Chemistry Frontiers, 2017, 1, 65-72.	3.2	22
8367	Novel upconversion Er, Yb-CeO <sub>2</sub> hollow spheres as scattering layer materials for efficient dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2017, 160, 54-59.	3.0	63
8368	Application of a dual functional luminescent layer to enhance the light harvesting efficiency of dye sensitized solar cell. Materials Letters, 2017, 188, 92-94.	1.3	18
8369	New insight into the roles of oxygen vacancies in hematite for solar water splitting. Physical Chemistry Chemical Physics, 2017, 19, 1074-1082.	1.3	69
8370	Information Materials. , 2017, , .		12
8371	Study on dye-loading mode on TiO <sub>2</sub> films and impact of co-sensitizers on highly efficient co-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 3962-3969.	1.1	7
8372	Multiband InGaN nanowires with enhanced visible photon absorption for efficient photoelectrochemical water splitting. Journal of Power Sources, 2017, 337, 130-136.	4.0	27
8373	Artificial photosynthetic antennas and reaction centers. Comptes Rendus Chimie, 2017, 20, 296-313.	0.2	41
8374	A planar dithiafulvene based sensitizer forming J-aggregates on TiO <sub>2</sub> photoanode to enhance the performance of dye-sensitized solar cells. Dyes and Pigments, 2017, 136, 97-103.	2.0	26
8375	An In <sub>2</sub> .77S <sub>4</sub> @conductive carbon composite with superior electrocatalytic activity for dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 87-91.	2.0	12

#	ARTICLE	IF	CITATIONS
8376	Rare earth oxides in zirconium dioxide: How to turn a wide band gap metal oxide into a visible light active photocatalyst. <i>Journal of Energy Chemistry</i> , 2017, 26, 270-276.	7.1	64
8377	Metalloporphyrin-modified semiconductors for solar fuel production. <i>Chemical Science</i> , 2017, 8, 253-259.	3.7	80
8378	Photophysics and electrochemistry relevant to photocatalytic water splitting involved at solid-liquid electrolyte interfaces. <i>Journal of Energy Chemistry</i> , 2017, 26, 259-269.	7.1	20
8379	Synthesis and characterization of nanostructures of ZnO and ZnO/Graphene composites for the application in hybrid solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 690, 21-26.	2.8	36
8380	Syntheses, crystal structures, electronic spectra and magnetic properties of two ion-pair charge transfer complexes based on $[\text{Ni}(\text{mnt})_2]^{2+}$ . <i>Journal of Molecular Structure</i> , 2017, 1128, 57-63.	1.8	1
8381	First-principles Calculations of In-based Nanotubes. <i>Israel Journal of Chemistry</i> , 2017, 57, 490-500.	1.0	5
8382	An ambipolar azaacene as a stable photocathode for metal-free light-driven water reduction. <i>Materials Chemistry Frontiers</i> , 2017, 1, 495-498.	3.2	33
8383	Modulated electrical field as a new pulse method to make TiO <sub>2</sub> film for high-performance photo-electrochemical cells and modeling of the deposition process. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 371-381.	1.2	5
8384	CuO@ZnO core-shell nanocomposites: Novel hydrothermal synthesis and enhancement in photocatalytic property. <i>Journal of Alloys and Compounds</i> , 2017, 691, 171-177.	2.8	63
8385	Template-directed fabrication of vertically aligned Cu <sub>2</sub> ZnSnS <sub>4</sub> nanorod arrays for photoelectrochemical applications via a non-toxic solution process. <i>Journal of Alloys and Compounds</i> , 2017, 691, 457-465.	2.8	14
8386	Electrical and optical properties of graphene-TiO <sub>2</sub> nanocomposite and its applications in dye sensitized solar cells (DSSC). <i>Journal of Alloys and Compounds</i> , 2017, 691, 659-665.	2.8	83
8387	Ruthenium(II) complexes with 8-(diphenylphosphino)quinoline: Synthesis, spectroscopic properties, and single-crystal X-ray structures. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, 47, 655-660.	0.9	7
8388	Designing of platinum free NiS anchored graphene/polyaniline nanocomposites based counter electrode for dye sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1042-1050.	1.1	7
8389	Theoretical design of push-pull porphyrin dyes with $\pi$ -bridge modification for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 232-240.	2.0	18
8390	Improving the photovoltaic conversion efficiency of ZnO based dye sensitized solar cells by indium doping. <i>Journal of Alloys and Compounds</i> , 2017, 692, 67-76.	2.8	107
8391	Vertically aligned and ordered ZnO/CdS nanowire arrays for self-powered UV-visible photosensing. <i>Journal of Materials Science</i> , 2017, 52, 1308-1317.	1.7	36
8392	Ultrasensitive sandwich-type photoelectrochemical immunosensor based on CdSe sensitized La-TiO <sub>2</sub> matrix and signal amplification of polystyrene@Ab <sub>2</sub> composites. <i>Biosensors and Bioelectronics</i> , 2017, 87, 593-599.	5.3	48
8393	Fabrication of Ag <sub>2</sub> O/TiO <sub>2</sub> -Zeolite composite and its enhanced solar light photocatalytic performance and mechanism for degradation of norfloxacin. <i>Chemical Engineering Journal</i> , 2017, 308, 818-826.	6.6	98



#	ARTICLE	IF	CITATIONS
8394	The general synthesis and characterization of rare earth orthovanadate nanocrystals and their electrochemical applications. <i>Journal of Alloys and Compounds</i> , 2017, 693, 825-831.	2.8	24
8395	Molybdenum-Loaded Anatase TiO <sub>2</sub> Nanoparticles With Enhanced Optoelectronics Properties. <i>Journal of Electronic Materials</i> , 2017, 46, 85-91.	1.0	6
8396	Main group metal chalcogenidometalates with transition metal complexes of 1,10-phenanthroline and 2,2'-bipyridine. <i>Coordination Chemistry Reviews</i> , 2017, 330, 95-109.	9.5	46
8397	Co-precipitation synthesis of V-doped titania: influence of vanadium concentration on the structural and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1852-1858.	1.1	5
8398	Principals of simulation of ultrafast charge transfer in solution within the multichannel stochastic point-transition model. <i>Computer Physics Communications</i> , 2017, 210, 172-180.	3.0	17
8399	Three-dimensional activated porous carbon with meso/macropore structures derived from fallen pine cone flowers: A low-cost counter electrode material in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 693, 1297-1304.	2.8	67
8400	Preparation of anatase TiO <sub>2</sub> microspheres with high exposure (001) facets as the light-scattering layer for improving performance of dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 694, 568-573.	2.8	21
8401	A systematic study of phenoxazine-based organic sensitizers for solar cells. <i>Dyes and Pigments</i> , 2017, 137, 12-23.	2.0	61
8402	TiO <sub>2</sub> -based Photocatalysis: Toward Visible Light-Responsive Photocatalysts Through Doping and Fabrication of Carbon-Based Nanocomposites. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2017, 42, 295-346.	6.8	55
8403	The effects of polyvinylpyrrolidone and thermal annealing on red shifts for absorption spectra of the nanoparticle Au/TiO <sub>2</sub> thin film with different Au ratios. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2075-2085.	1.1	4
8404	Influences of the adsorption state of catalyst on the performance of DS-PEC for visible light driven water splitting. <i>Journal of Energy Chemistry</i> , 2017, 26, 163-167.	7.1	4
8405	Photo-assisted deposition of Ag nanoparticles on branched TiO <sub>2</sub> nanorod arrays for dye-sensitized solar cells with enhanced efficiency. <i>Journal of Alloys and Compounds</i> , 2017, 694, 653-661.	2.8	39
8406	Integration of dye solar cells in load-bearing translucent glass fiber-reinforced polymer laminates. <i>Journal of Composite Materials</i> , 2017, 51, 939-953.	1.2	8
8407	Light-driven electron transfer in a modular assembly of a ruthenium(II) polypyridine sensitiser and a manganese(II) terpyridine unit separated by a redox active linkage. DFT analysis. <i>Comptes Rendus Chimie</i> , 2017, 20, 323-332.	0.2	2
8408	Synthesis, crystal growth, structural evaluation and nonlinear optical analysis of ethyl-4-(3,4-dimethoxyphenyl)-6-methyl-2-sulfanylidene-3,4-dihydro-1H-pyrimidine-5-carboxylate. <i>Journal of Molecular Structure</i> , 2017, 1127, 212-225.	1.8	8
8409	First-principles study of codoping TiO <sub>2</sub> systems capable of improving the specific surface area and the dissociation of H <sub>2</sub> O to generate H <sub>2</sub> and O <sub>2</sub> . <i>Computational Materials Science</i> , 2017, 127, 204-210.	1.4	7
8410	Stabilization of organometal halide perovskite films by SnO <sub>2</sub> coating with inactive surface hydroxyl groups on ZnO nanorods. <i>Journal of Power Sources</i> , 2017, 339, 51-60.	4.0	71
8411	A review on triphenylamine (TPA) based organic hole transport materials (HTMs) for dye sensitized solar cells (DSSCs) and perovskite solar cells (PSCs): evolution and molecular engineering. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1348-1373.	5.2	298

#	ARTICLE	IF	CITATIONS
8412	A Oneâ€Structureâ€Based Piezoâ€Triboâ€Pyroâ€Photoelectric Effects Coupled Nanogenerator for Simultaneously Scavenging Mechanical, Thermal, and Solar Energies. <i>Advanced Energy Materials</i> , 2017, 7, 1601852.	10.2	134
8413	Synthesis of CuInS <sub>2</sub> nanowire arrays via solution transformation of Cu <sub>2</sub> S self-template for enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 715-724.	10.8	49
8414	One-dimensional Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> photoelectrode and investigation of its photoelectric properties in photoelectrochemical cell. <i>Applied Surface Science</i> , 2017, 397, 112-118.	3.1	40
8415	Heavy metal-free, near-infrared colloidal quantum dots for efficient photoelectrochemical hydrogen generation. <i>Nano Energy</i> , 2017, 31, 441-449.	8.2	116
8416	Photoelectrocatalytic Materials for Water Disinfection. <i>Green Chemistry and Sustainable Technology</i> , 2017, , 199-219.	0.4	1
8417	Tuning crystal phase of NiS <sub>x</sub> through electro-oxidized nickel foam: A novel route for preparing efficient electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017, 396, 1034-1043.	3.1	57
8418	Carbazole based D-A-Ï€ chromophores for dye sensitized solar cells: Effect of the side alkyl chain length on device performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8569-8575.	3.8	18
8419	Carbon-doped freestanding TiO <sub>2</sub> nanotube arrays in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 285-289.	1.4	17
8420	Natural dyes for dye sensitized solar cell: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 705-718.	8.2	307
8421	Triphenylamine-based organic sensitizers with Ï€-spacer structural engineering for dye-sensitized solar cells: Synthesis, theoretical calculations, molecular spectroscopy and structure-property-performance relationships. <i>Dyes and Pigments</i> , 2017, 136, 496-504.	2.0	49
8422	Constructing Synergetic Trilayered TiO <sub>2</sub> Photoanodes Based on a Flexible Nanotube Array/Ti Substrate for Efficient Solar Cells. <i>ChemNanoMat</i> , 2017, 3, 58-64.	1.5	9
8423	Synthesis and investigation of crystal structure and optical properties of brookite TiO <sub>2</sub> nanoparticles capped with (2-chloroquinoline-3-yl) methanol. <i>Journal of Molecular Structure</i> , 2017, 1128, 612-618.	1.8	4
8424	Wiring of Photosystemâ€I and Hydrogenase on an Electrode for Photoelectrochemical H <sub>2</sub> Production by using Redox Polymers for Relatively Positive Onset Potential. <i>ChemElectroChem</i> , 2017, 4, 90-95.	1.7	53
8425	On the photocatalytic and electrocatalytic hydrogen evolution performance of molybdenum sulfide supported on TiO <sub>2</sub> . <i>Catalysis Today</i> , 2017, 292, 154-163.	2.2	17
8426	Cobalt-Phosphate modified TiO <sub>2</sub> /BiVO <sub>4</sub> nanoarrays photoanode for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5496-5504.	3.8	67
8427	Carbon nitride doped TiO <sub>2</sub> photoelectrodes for photocatalysts and quantum dot sensitized solar cells. <i>Materials Research Bulletin</i> , 2017, 85, 209-215.	2.7	31
8428	Three-dimensional vertically aligned hybrid nanoarchitecture of two-dimensional molybdenum disulfide nanosheets anchored on directly grown one-dimensional carbon nanotubes for use as a counter electrode in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 692, 941-949.	2.8	30
8429	UV-light induced solid-phase photodegradation in PANI nanocomposites. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
8430	Electrochemical Exfoliation of Graphene Flake Embedded in SiNWs as Counter Electrode for Dye-Sensitized Solar Cells. <i>Nano</i> , 2017, 12, 1750146.	0.5	0
8431	Optical and Photovoltaic Properties of Thieno[3,2- <i>b</i> ]thiophene-Based Push-Pull Organic Dyes with Different Anchoring Groups for Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2017, 2, 9268-9279.	1.6	32
8432	Hydrogen and nitrogen codoping of anatase TiO <sub>2</sub> for efficiency enhancement in organic solar cells. <i>Scientific Reports</i> , 2017, 7, 17839.	1.6	24
8433	Effect of PEG as Soft Template in Hydrothermal Synthesis of Porous TiO <sub>2</sub> Nanoparticles for DSSC Application. <i>Materials Today: Proceedings</i> , 2017, 4, 12545-12549.	0.9	3
8434	Influence of donor substitution at $\text{D}^{\text{uppi}}\text{A}^{\text{D}}$ - A architecture in efficient sensitizers for dye-sensitized solar cells: first-principle study. <i>Bulletin of Materials Science</i> , 2017, 40, 1389-1396.	0.8	30
8435	Influence of natural dye adsorption on the structural, morphological and optical properties of TiO <sub>2</sub> -based photoanode of dye-sensitized solar cell. <i>Materials Science-Poland</i> , 2017, 36, 93-101.	0.4	25
8436	Low-Temperature Fabrication of Mesoporous Titania Thin Films. <i>MRS Advances</i> , 2017, 2, 2315-2325.	0.5	5
8437	Electron beam Ni-layer deposited LaTiO <sub>2</sub> N photoanodes for the enhanced photoelectrochemical performance of water oxidation. , 2017, , .		0
8438	Quasiparticle Band Structures of Defects in Anatase TiO <sub>2</sub> Bulk. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 771-775.	0.6	6
8439	The Reactivity of Anatase TiO <sub>2</sub> (211) Surface and the Bond-Charge Counting Model. , 2017, , .		2
8441	Study of plasmonics induced optical absorption enhancement of Au embedded in titanium dioxide nanohole arrays. <i>Optical Materials Express</i> , 2017, 7, 2871.	1.6	6
8442	Effect of molecular concentration on spectroscopic properties of poly(methyl methacrylate) thin films doped with rhodamine 6G dye. <i>Optical Materials Express</i> , 2017, 7, 4286.	1.6	23
8443	Electrochemical Synthesis of Nanostructured Materials. , 2017, , 53-103.		6
8444	Synthesis and Catalytic Applications of Non-Metal Doped Mesoporous Titania. <i>Inorganics</i> , 2017, 5, 15.	1.2	83
8445	High-resolution 3D printing for healthcare underpinned by small-scale fluidics. , 2017, , 167-206.		18
8446	First-Principles View on Photoelectrochemistry: Water-Splitting as Case Study. <i>Inorganics</i> , 2017, 5, 37.	1.2	22
8447	Practical Cluster Models for a Layered $\hat{\text{I}}^2\text{-NiOOH}$ Material. <i>Materials</i> , 2017, 10, 480.	1.3	7
8448	Advances in Photocatalytic CO <sub>2</sub> Reduction with Water: A Review. <i>Materials</i> , 2017, 10, 629.	1.3	181

#	ARTICLE	IF	CITATIONS
8449	In Situ Synthesis of Silver Nanoparticles on the Polyelectrolyte-Coated Sericin/PVA Film for Enhanced Antibacterial Application. <i>Materials</i> , 2017, 10, 967.	1.3	27
8450	Synthesis of TiO <sub>2</sub> with Hierarchical Porosity for the Photooxidation of Propene. <i>Molecules</i> , 2017, 22, 2243.	1.7	17
8451	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. <i>Nanomaterials</i> , 2017, 7, 21.	1.9	112
8452	Multi-Shaped Ag Nanoparticles in the Plasmonic Layer of Dye-Sensitized Solar Cells for Increased Power Conversion Efficiency. <i>Nanomaterials</i> , 2017, 7, 136.	1.9	40
8453	Fabrication and Characterization of Flexible and Miniaturized Humidity Sensors Using Screen-Printed TiO <sub>2</sub> Nanoparticles as Sensitive Layer. <i>Sensors</i> , 2017, 17, 1854.	2.1	40
8454	III-V Compound, Concentrator and Photoelectrochemical Cells. , 0, , 97-133.		0
8455	Toward Defect Engineering Strategies to Optimize Energy and Electronic Materials. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 674.	1.3	15
8456	Dual Functionalized Freestanding TiO <sub>2</sub> Nanotube Arrays Coated with Ag Nanoparticles and Carbon Materials for Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 576.	1.3	16
8457	Photocatalytic Water Oxidation on ZnO: A Review. <i>Catalysts</i> , 2017, 7, 93.	1.6	122
8458	A Zero-Power, Low-Cost Ultraviolet-C Colorimetric Sensor Using a Gallium Oxide and Reduced Graphene Oxide Hybrid via Photoelectrochemical Reactions. <i>Catalysts</i> , 2017, 7, 248.	1.6	9
8459	Fabrication of Photovoltaic Textiles. <i>Coatings</i> , 2017, 7, 63.	1.2	34
8460	First Principle Modelling of Materials and Processes in Dye-Sensitized Photoanodes for Solar Energy and Solar Fuels. <i>Computation</i> , 2017, 5, 5.	1.0	15
8461	Energetic Study of Clusters and Reaction Barrier Heights from Efficient Semilocal Density Functionals. <i>Computation</i> , 2017, 5, 27.	1.0	7
8462	Polymorphism and Structural Distortions of Mixed-Metal Oxide Photocatalysts Constructed with $\bar{1}\pm$ -U <sub>3</sub> O <sub>8</sub> Types of Layers. <i>Crystals</i> , 2017, 7, 145.	1.0	6
8463	Photophysics and Photochemistry at the Semiconductor/Electrolyte Interface for Solar Water Splitting. <i>Semiconductors and Semimetals</i> , 2017, 97, 47-80.	0.4	8
8464	Cyanidin-Based Novel Organic Sensitizer for Efficient Dye-Sensitized Solar Cells: DFT/TDDFT Study. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-6.	1.4	12
8465	Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-31.	1.5	93
8466	A New Green Titania with Enhanced NIR Absorption for Mitochondria-Targeted Cancer Therapy. <i>Theranostics</i> , 2017, 7, 1531-1542.	4.6	54

#	ARTICLE	IF	CITATIONS
8467	Chlorophyll as Photosensitizer in Dye-Sensitized Solar Cells. , 0, , .		12
8468	Photo-catalytic or photo-synthetic routes for the decomposition of water “ are they realizable dreams?. Natural Resources & Engineering, 2017, 2, 1-4.	0.3	1
8469	Nanostructured Photoelectrodes via Template-Assisted Fabrication. Semiconductors and Semimetals, 2017, 97, 289-313.	0.4	2
8470	Photoelectrochemical oxidation of organic substrates in organic media. Nature Communications, 2017, 8, 390.	5.8	123
8471	Effect of Gold Nanoparticle Distribution in TiO <sub>2</sub> on the Optical and Electrical Characteristics of Dye-Sensitized Solar Cells. Nanoscale Research Letters, 2017, 12, 513.	3.1	27
8472	Effect of Polyethylene Glycol on the NiO Photocathode. Nanoscale Research Letters, 2017, 12, 501.	3.1	4
8473	Natural dye extracted from Pandanus amaryllifolius leaves as sensitizer in fabrication of dye-sensitized solar cells. International Journal of Electrochemical Science, 2017, 12, 747-761.	0.5	49
8474	Pyroelectrically Induced Pyro-Electro-Chemical Catalytic Activity of BaTiO <sub>3</sub> Nanofibers under Room-Temperature Cold“Hot Cycle Excitations. Metals, 2017, 7, 122.	1.0	68
8475	Enhanced Efficiency in Dye-Sensitized Solar Cells by Electron Transport and Light Scattering on Freestanding TiO <sub>2</sub> Nanotube Arrays. Nanomaterials, 2017, 7, 345.	1.9	8
8476	Enhanced photoelectrochemical water splitting performance using morphology-controlled BiVO <sub>4</sub> with W doping. Beilstein Journal of Nanotechnology, 2017, 8, 2640-2647.	1.5	19
8477	Synthesis and photovoltaic characterization of triarylamine-substituted quinoxaline push-pull dyes to improve the performance of dye-sensitized solar cells. Turkish Journal of Chemistry, 2017, 41, 309-322.	0.5	4
8478	Free-Base and Metal Complexes of 5,10,15,20-Tetrakis(NMethyl Pyridinium L)Porphyrin: Catalytic and Therapeutic Properties. , 0, , .		4
8479	Morphological effect of composite TiO <sub>2</sub> nanorod-TiO <sub>2</sub> nanoparticle/PEDOT:PSS electrodes on triiodide reduction. EXPRESS Polymer Letters, 2017, 11, 106-116.	1.1	4
8481	Hydrothermal Synthesis of NiS <sub>2</sub> Cubes with High Performance as Counter Electrodes in Dye-Sensitized Solar Cells. International Journal of Electrochemical Science, 2017, 12, 4610-4618.	0.5	18
8482	PV Module Durability -connecting field results, accelerated testing, and materials. , 2017, , .		13
8483	Oxygen evolution reaction in nanoconfined carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 1-5.	1.3	9
8484	RGO-MoS <sub>2</sub> Supported NiCo <sub>2</sub> O <sub>4</sub> Catalyst toward Solar Water Splitting and Dye Degradation. ACS Sustainable Chemistry and Engineering, 2018, 6, 5238-5247.	3.2	93
8485	Optimized reduction of graphite oxide for highly exfoliated silver nanoparticles anchored graphene sheets for dye sensitized solar cell applications. Electrochimica Acta, 2018, 265, 131-139.	2.6	8

#	ARTICLE	IF	CITATIONS
8486	Tin oxide as an emerging electron transport medium in perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 102-117.	3.0	43
8487	Elucidating the Solution-Phase Structure and Behavior of 8-Hydroxyquinoline Zinc in DMSO. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2906-2914.	1.1	4
8488	Structural and Optical Properties of Nanocrystalline TiO <sub>2</sub> with Multiwalled Carbon Nanotubes and Its Photovoltaic Studies Using Ru(II) Sensitizers. <i>ACS Omega</i> , 2018, 3, 2743-2756.	1.6	74
8489	Synergistic Effect of Porosity and Gradient Doping in Efficient Solar Water Oxidation of Catalyst-Free Gradient Mo:BiVO <sub>4</sub> . <i>ACS Omega</i> , 2018, 3, 2724-2734.	1.6	21
8490	The Effect of Strain and Grain Size on Phonon and Electron Confinements in TiO <sub>2</sub> Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700636.	0.7	3
8491	Graphene and its derivatives for solar cells application. <i>Nano Energy</i> , 2018, 47, 51-65.	8.2	284
8492	Molecular engineering of the organometallic perovskites/HTMs in the PSCs: Photovoltaic behavior and energy conversion. <i>Solar Energy Materials and Solar Cells</i> , 2018, 180, 46-58.	3.0	14
8493	Binaphthyl-containing Schiff base complexes with carboxyl groups for dye sensitized solar cell: An experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2018, 1162, 54-62.	1.8	17
8494	A zeolitic imidazolate framework-derived ZnSe/N-doped carbon cube hybrid electrocatalyst as the counter electrode for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5107-5118.	5.2	63
8495	Theoretical study on p-type D- $\pi$ -A sensitizers with modified $\pi$ -spacers for dye-sensitized solar cells. <i>Journal of Molecular Modeling</i> , 2018, 24, 68.	0.8	5
8496	Size and Shape Effects on Charge Recombination Dynamics of TiO <sub>2</sub> Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5201-5208.	1.5	39
8497	Highly Efficient Bifacial Dye-Sensitized Solar Cells Employing Polymeric Counter Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8611-8620.	4.0	35
8498	Exciton dissociation dynamics and light-driven H <sub>2</sub> generation in colloidal 2D cadmium chalcogenide nanoplatelet heterostructures. <i>Nano Research</i> , 2018, 11, 3031-3049.	5.8	35
8499	Self-assembled 3DOM macro-/mesoporous TiO <sub>2</sub> photoanode for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 439, 1026-1033.	3.1	20
8500	Organic dyes festooned with fluorene and fused thiazine for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 268, 347-357.	2.6	11
8501	Coupling-Effect-Induced Acceleration of Electron Transfer for $\text{Ni}(\text{OH})_2$ with Enhanced Oxygen Evolution Reaction Activity. <i>ACS Applied Nano Materials</i> , 2018, 1, 1476-1483.	2.4	25
8502	Activating Layered Perovskite Compound SrTiO <sub>4</sub> via La/N Codoping for Visible Light Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2018, 8, 3209-3221.	5.5	82
8503	High-resolution photoelectron spectroscopy of TiO <sub>3</sub> H <sub>2</sub> <sup>+</sup> : Probing the TiO <sub>2</sub> <sup>+</sup> + H <sub>2</sub> O dissociative adduct. <i>Journal of Chemical Physics</i> , 2018, 148, 222810.	1.2	20

#	ARTICLE	IF	CITATIONS
8504	Alkali-corrosion synthesis and excellent DSSC performance of novel jujube-like hierarchical TiO <sub>2</sub> microspheres. <i>Nanotechnology</i> , 2018, 29, 175603.	1.3	8
8505	Charge-transfer excited state in pyrene-1-carboxylic acids adsorbed on titanium dioxide nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 198, 19-26.	2.0	6
8506	Dye-sensitized solar cells based on Al-doped ZnO photoelectrodes sensitized with rhodamine. <i>Materials Letters</i> , 2018, 220, 281-284.	1.3	25
8507	Study on charge transfer processes in thin-film heterojunction between cuprous oxide and hematite. <i>Materials Science in Semiconductor Processing</i> , 2018, 80, 56-62.	1.9	13
8508	ŒŒŒ Interaction Between MetalŒŒŒ Organic Framework and Reduced Graphene Oxide for Visible-Light Photocatalytic H <sub>2</sub> Production. <i>ACS Applied Energy Materials</i> , 2018, 1, 1913-1923.	2.5	168
8509	Electronic Structure and Dynamics of Copper-Doped Indium Phosphide Nanocrystals Studied with Time-Resolved X-ray Absorption and Large-Scale DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11145-11151.	1.5	17
8510	Highly efficient charge collection in dye-sensitized solar cells based on nanocomposite photoanode filled with indium-tin oxide interlayer. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 356-363.	9.9	12
8511	Probing the Performance Limitations in Thin-Film FeVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9773-9782.	1.5	32
8512	Exploring function activated chlorins using MCD spectroscopy and DFT methods: design of a chlorin with a remarkably intense, red Q band. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12470-12482.	1.3	5
8513	Dynamical simulation of electron transfer processes in self-assembled monolayers at metal surfaces using a density matrix approach. <i>Journal of Chemical Physics</i> , 2018, 148, 124705.	1.2	5
8514	Cubic carbon quantum dots for light-harvesters in mesoscopic solar cells. <i>Electrochimica Acta</i> , 2018, 275, 275-280.	2.6	26
8515	Biohybrid solar cells: Fundamentals, progress, and challenges. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018, 35, 134-156.	5.6	76
8516	An investigation on the role of W doping in BiVO <sub>4</sub> photoanodes used for solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13637-13645.	1.3	38
8517	Current Advances in Semiconductor NanomaterialŒŒBased Photoelectrochemical Biosensing. <i>Chemistry - A European Journal</i> , 2018, 24, 14010-14027.	1.7	97
8518	A Rechargeable Hydrogen Battery. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2492-2497.	2.1	21
8519	One-step hydrothermal synthesis of feather duster-like NiS@MoS <sub>2</sub> with hierarchical array structure for the Pt-free dye-sensitized solar cell. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	12
8520	Constructing a ZnIn <sub>2</sub> S <sub>4</sub> nanoparticle/MoS <sub>2</sub> -RGO nanosheet OD/2D heterojunction for significantly enhanced visible-light photocatalytic H <sub>2</sub> production. <i>Dalton Transactions</i> , 2018, 47, 6800-6807.	1.6	44
8521	Enhanced photoelectrochemical water splitting of BiVO <sub>4</sub> photonic crystal photoanode by decorating with MoS <sub>2</sub> nanosheets. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	15

#	ARTICLE	IF	CITATIONS
8522	Chapter 4. Unravelling the Charge Transfer Mechanism in Water Splitting Hematite Photoanodes. RSC Energy and Environment Series, 2018, , 100-127.	0.2	5
8523	The "Midas Touch" Transformation of TiO <sub>2</sub> Nanowire Arrays during Visible Light Photoelectrochemical Performance by Carbon/Nitrogen Coimplantation. Advanced Energy Materials, 2018, 8, 1800165.	10.2	77
8524	Electrocatalytic porous nanocomposite of graphite nanoplatelets anchored with exfoliated activated carbon filler as counter electrode for dye sensitized solar cells. Solar Energy, 2018, 167, 95-101.	2.9	15
8525	Facile preparation of surfactant or support material free CdS nanoparticles with enhanced photocatalytic activity. Journal of Environmental Chemical Engineering, 2018, 6, 1250-1256.	3.3	7
8526	Two-step electrodeposition to fabricate the n heterojunction of a Cu <sub>2</sub> O/BiVO <sub>4</sub> photoanode for the enhancement of photoelectrochemical water splitting. Dalton Transactions, 2018, 47, 6763-6771.	1.6	82
8527	Nanoencapsulation of phase change materials for advanced thermal energy storage systems. Chemical Society Reviews, 2018, 47, 4156-4175.	18.7	388
8528	Alkyne-modified water-stable alkylammonium lead (II) iodide perovskite. MRS Communications, 2018, 8, 289-296.	0.8	1
8529	Periodical 2D Photonic Plasmonic Au/TiO <sub>x</sub> Nanocavity Resonators for Photoelectrochemical Applications. Small, 2018, 14, e1703610.	5.2	18
8530	Co/Mn co-doped TiO <sub>2</sub> nanotube arrays for enhanced photoelectrochemical properties: experimental and DFT investigations. Journal of Materials Science, 2018, 53, 9988-10000.	1.7	6
8531	Application of rhenium-doped Pt <sub>3</sub> Ni on carbon nanofibers as counter electrode for dye-sensitized solar cells. Applied Surface Science, 2018, 448, 522-528.	3.1	9
8532	First layer water phases on anatase TiO <sub>2</sub> (101). Surface Science, 2018, 674, 25-31.	0.8	16
8533	Computational Investigation of the Influence of Bridge Conjugation Order of Thiophene and Thiazole Units in Triphenylamine Based Dyes in Dye-Sensitized Solar Cells. ChemistrySelect, 2018, 3, 3582-3590.	0.7	8
8534	Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions. Small Methods, 2018, 2, 1800018.	4.6	18
8535	Enhanced photoelectric performance of CdS/CdSe co-sensitized TiO <sub>2</sub> nanosheets array films. Sustainable Energy and Fuels, 2018, 2, 1262-1268.	2.5	5
8536	Photonic Fano Resonance of Multishaped Cu <sub>2</sub> O Nanoparticles on ZnO Nanowires Modulating Efficiency of Hydrogen Generation in Water Splitting Cell. ACS Sustainable Chemistry and Engineering, 2018, 6, 6590-6598.	3.2	23
8537	Trimetallic oxide nanocomposites of transition metals titanium and vanadium by sol-gel technique: synthesis, characterization and electronic properties. Materials Research Express, 2018, 5, 045037.	0.8	1
8538	Modification of the Chemisorption Properties of Epitaxial Delafossite CuFeO <sub>2</sub> Thin Films by Substituting Fe for Ga in the Crystal Structure. Topics in Catalysis, 2018, 61, 1193-1200.	1.3	1
8539	Enhanced Efficiency of Dye-sensitized Solar Cells Using rGO@TiO <sub>2</sub> Nanotube Hybrids. Chemical Research in Chinese Universities, 2018, 34, 269-273.	1.3	6



#	ARTICLE	IF	CITATIONS
8540	Carbon Coated $\text{Fe}_2\text{O}_3$ Photoanode Synthesized by a Facile Anodic Electrodeposition for Highly Efficient Water Oxidation. <i>Electronic Materials Letters</i> , 2018, 14, 348-356.	1.0	7
8541	Synthesis and characterization of V-doped $\text{TiO}_2$ nanoparticles through polyol method with enhanced photocatalytic activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10269-10276.	1.1	7
8542	Synthesis, characterization, theoretical investigation, and properties of monoclinic-phase $\text{InWO}_4$ hollow nanospheres. <i>Nano Research</i> , 2018, 11, 4664-4672.	5.8	3
8543	Photoelectrode for water splitting: Materials, fabrication and characterization. <i>Science China Materials</i> , 2018, 61, 806-821.	3.5	44
8544	Block copolymer-assisted synthesis of monodisperse colloidal patchy nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 289-296.	5.0	5
8545	Stable photoelectrochemical salt-water splitting using the n-ZnSe/n-Ag <sub>8</sub> SnS <sub>6</sub> photoanodes with the nanoscale surface state capacitances. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 87, 182-195.	2.7	17
8546	Interconnected $\text{ZrO}_2$ doped $\text{ZnO}/\text{TiO}_2$ network photoanode for dye-sensitized solar cells. <i>Energy Reports</i> , 2018, 4, 56-64.	2.5	22
8547	Integrated Electronic, Optical, and Structural Features in Pseudo-3D Mesoporous $\text{TiO}_2$ Delivering Enhanced Dye-Sensitized Solar Cell Performance. <i>ACS Omega</i> , 2018, 3, 1645-1652.	1.6	11
8549	Recent progress on advanced design for photoelectrochemical reduction of $\text{CO}_2$ to fuels. <i>Science China Materials</i> , 2018, 61, 771-805.	3.5	172
8550	Rate-Limiting $\text{O-O}$ Bond Formation Pathways for Water Oxidation on Hematite Photoanode. <i>Journal of the American Chemical Society</i> , 2018, 140, 3264-3269.	6.6	156
8551	Comparison of charge transfer dynamics in polypyridyl ruthenium sensitizers for solar cells and water splitting systems. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7710-7720.	1.3	11
8552	Microwave assisted synthesis and characterization of pure and Cr doped $\text{TiO}_2$ with improved photo-efficiency. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6501-6510.	1.1	6
8553	$\text{AgIn}_5\text{S}_8$ nanoparticles anchored on 2D layered $\text{ZnIn}_2\text{S}_4$ to form 0D/2D heterojunction for enhanced visible-light photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 512-518.	10.8	129
8554	Enhancement of quantum efficiency by co-adsorbing small julolidine dye and bulky triphenylamine dye in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 403-410.	2.0	7
8555	A novel $\text{CoOOH}/(\text{Ti}, \text{C})\text{-Fe}_2\text{O}_3$ nanorod photoanode for photoelectrochemical water splitting. <i>Science China Materials</i> , 2018, 61, 887-894.	3.5	69
8556	Strain and electric field induced metallization in the $\text{GaX}$ ( $\text{X} = \text{N}, \text{P}, \text{As}$ & $\text{Sb}$ ) monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 99, 236-243.	1.3	24
8558	Palm-based polyurethane-ionic liquid gel polymer electrolyte for quasi-solid state dye sensitized solar cell. <i>Industrial Crops and Products</i> , 2018, 113, 406-413.	2.5	32
8559	Spectroscopic investigation on structure (monomer and dimer), molecular characteristics and comparative study on vibrational analysis of picolinic and isonicotinic acids using experimental and theoretical (DFT & IVP) methods. <i>Journal of Molecular Structure</i> , 2018, 1160, 271-292.	1.8	25

#	ARTICLE	IF	CITATIONS
8560	Enhanced Visible-Light-Driven Photocatalytic Activity by 0D/2D Phase Heterojunction of Quantum Dots/Nanosheets on Bismuth Molybdates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3738-3747.	1.5	53
8561	Effect of the substrate temperature on the physical properties of sprayed-CdS films by using an automatized perfume atomizer. <i>Materials Science in Semiconductor Processing</i> , 2018, 79, 7-13.	1.9	22
8562	Photosystem I Multilayer Films for Photovoltage Enhancement in Natural Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 301-305.	2.5	15
8563	Synthesis of 2-amino-4-(4-(methylamino)phenyl)-6-phenylnicotinonitrile as a new additive for the passivation of the TiO <sub>2</sub> surface and retarding recombination in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 266, 452-459.	2.6	12
8564	Natural Dyes and their Effect on Efficiency of TiO <sub>2</sub> based DSSCs: a Comparative Study. <i>Materials Today: Proceedings</i> , 2018, 5, 2112-2122.	0.9	28
8565	Tandem MoP nanocrystals with rich grain boundaries for efficient electrocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2018, 54, 2502-2505.	2.2	30
8566	Enhancing the Photovoltaic Performance of Dye-Sensitized Solar Cells with Rare-Earth Metal Oxide Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2018, 165, H52-H56.	1.3	23
8567	Reduced Graphene Oxide as a Catalyst Binder: Greatly Enhanced Photoelectrochemical Stability of Cu(In,Ga)Se <sub>2</sub> Photocathode for Solar Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1705136.	7.8	46
8568	Dynamic Photoelectrochemical Device Using an Electrolyte-Permeable NiO <sub>x</sub> /SiO <sub>2</sub> /Si Photocathode with an Open-Circuit Potential of 0.75 V. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7955-7962.	4.0	30
8570	Photoelectrochemical studies on earth abundant pentanickel polyoxometalates as co-catalysts for solar water oxidation. <i>Sustainable Energy and Fuels</i> , 2018, 2, 827-835.	2.5	5
8571	Ion beam sputtering deposition of silver nanoparticles and TiO <sub>x</sub> /ZnO nanocomposites for use in surface enhanced vibrational spectroscopy (SERS and SEIRAS). <i>Mikrochimica Acta</i> , 2018, 185, 153.	2.5	22
8572	Delocalized Impurity Phonon Induced Electron-Hole Recombination in Doped Semiconductors. <i>Nano Letters</i> , 2018, 18, 1592-1599.	4.5	86
8573	Cobalt selenide hollow nanorods array with exceptionally high electrocatalytic activity for high-efficiency quasi-solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2018, 378, 475-482.	4.0	28
8574	Poros silaphosphorene, silaarsenene and silaantimonene: a sweet marriage of Si and P/As/Sb. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3738-3746.	5.2	14
8575	Spatial separation of electrons and holes for enhancing the gas-sensing property of a semiconductor: ZnO/ZnSnO <sub>3</sub> nanorod arrays prepared by a hetero-epitaxial growth. <i>Nanotechnology</i> , 2018, 29, 175501.	1.3	12
8576	Seed mediated synthesis of nanosized zinc oxide and its electron transporting activity in dye-sensitized solar cells. <i>Materials Research Express</i> , 2018, 5, 015029.	0.8	22
8577	Advances in Silicon Solar Cells. , 2018, , .		4
8578	Single Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO <sub>2</sub> -Filmed Ultramicroelectrode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3758-3762.	7.2	54

#	ARTICLE	IF	CITATIONS
8579	Investigating the Role of Oxygen Vacancies and Lattice Strain Defects on the Enhanced Photoelectrochemical Property of Alkali Metal (Li, Na, and K) Doped ZnO Nanorod Photoanodes. <i>ChemElectroChem</i> , 2018, 5, 1147-1152.	1.7	31
8580	The synthesis and application of TiO <sub>2</sub> microspheres as scattering layer in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7356-7363.	1.1	16
8581	Dye-sensitized solar cell performance of a cobalt(III/II) redox mediator with the 4,5-diazafluoren-9-one ligand. <i>Transition Metal Chemistry</i> , 2018, 43, 279-284.	0.7	6
8582	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 876-882.	2.5	18
8583	Electrical properties of grain size tuned CdSe nanocrystal films for practical applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 178, 106-114.	3.0	23
8584	DFT and TD-DFT calculations of metalotetraphenylporphyrin and metalotetraphenylporphyrin fullerene complexes as potential dye sensitizers for solar cells. <i>Journal of Molecular Structure</i> , 2018, 1160, 415-427.	1.8	23
8586	Plasma-Assisted Synthesis and Surface Modification of Electrode Materials for Renewable Energy. <i>Advanced Materials</i> , 2018, 30, e1705850.	11.1	476
8587	Plasmon-Dictated Photo-Electrochemical Water Splitting for Solar-to-Chemical Energy Conversion: Current Status and Future Perspectives. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701098.	1.9	92
8588	Single-Nanoparticle Photoelectrochemistry at a Nanoparticulate TiO <sub>2</sub> -Filmed Ultramicroelectrode. <i>Angewandte Chemie</i> , 2018, 130, 3820-3824.	1.6	16
8589	Efficient Photoelectrochemical Water Splitting by g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> Nanotube Array Heterostructures. <i>Nano-Micro Letters</i> , 2018, 10, 37.	14.4	122
8590	A dye-sensitized solar cell acting as the electrical reading box of an immunosensor: Application to CEA determination. <i>Biosensors and Bioelectronics</i> , 2018, 107, 94-102.	5.3	21
8591	Dye-Sensitized Photoelectrochemical Cells. , 2018, , 503-565.		3
8592	Hybrid Dye-Titania Nanoparticles for Superior Low-Temperature Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702583.	10.2	29
8593	Large area quantum dot luminescent solar concentrators for use with dye-sensitised solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2671-2680.	5.2	46
8594	Reaction Pathway Dependence in Plasmonic Catalysis: Hydrogenation as a Model Molecular Transformation. <i>Chemistry - A European Journal</i> , 2018, 24, 12330-12339.	1.7	33
8596	Synergistic Hematite-Fullerene Electron-Extracting Layers for Improved Efficiency and Stability in Perovskite Solar Cells. <i>ChemElectroChem</i> , 2018, 5, 726-731.	1.7	72
8597	The influence of anchoring group position in ruthenium dye molecule on performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018, 150, 335-346.	2.0	12
8598	Performance enhancement of mesoporous TiO <sub>2</sub> -based perovskite solar cells by ZnS ultrathin-interfacial modification layer. <i>Journal of Alloys and Compounds</i> , 2018, 738, 405-414.	2.8	36

#	ARTICLE	IF	CITATIONS
8599	Optimized photoelectrochemical tandem cell for solar water splitting. <i>Energy Storage Materials</i> , 2018, 13, 175-188.	9.5	54
8600	Carbon, nitrogen and phosphorus containing metal-free photocatalysts for hydrogen production: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1305-1322.	5.2	144
8601	Facile and cost-effective methodology to fabricate MoS <sub>2</sub> counter electrode for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018, 151, 7-14.	2.0	47
8602	Investigation of metal sulfide composites as counter electrodes for improved performance of quantum dot sensitized solar cells. <i>Materials Research Bulletin</i> , 2018, 100, 198-205.	2.7	10
8603	Efficient photoelectrochemical water oxidation enabled by an amorphous metal oxide-catalyzed graphene/silicon heterojunction photoanode. <i>Sustainable Energy and Fuels</i> , 2018, 2, 663-672.	2.5	25
8604	Effect of gold nanoparticles on the performances of TiO <sub>2</sub> dye-sensitized solar cell. <i>Ceramics International</i> , 2018, 44, 5926-5931.	2.3	11
8605	Inhibition of CdS photocorrosion by Al <sub>2</sub> O <sub>3</sub> shell for highly stable photocatalytic overall water splitting under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 373-383.	10.8	167
8606	Hydrothermal preparation of hierarchical SnO <sub>2</sub> microsphere for efficient dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2018, 207, 141-146.	2.0	9
8607	Improving the photovoltaic performance of DSSCs using a combination of mixed-phase TiO <sub>2</sub> nanostructure photoanode and agglomerated free reduced graphene oxide counter electrode assisted with hyperbranched surfactant. <i>Optik</i> , 2018, 158, 522-534.	1.4	25
8608	Charge Transfer Kinetics of Photoelectrochemical Hydrogen Evolution Improved by Nonstoichiometric Ni <sub>1-x</sub> NiO <sub>x</sub> -Coated Si Photocathode in Alkaline Electrolyte. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700138.	2.7	12
8609	Visible-Light-Responsive Photoanodes for Highly Active, Stable Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8396-8415.	7.2	145
8610	Mesoporous titania films investigated by positron annihilation based on a slow positron beam. <i>Chinese Journal of Physics</i> , 2018, 56, 355-361.	2.0	2
8611	Structure/Property Relations in "Giant" Semiconductor Nanocrystals: Opportunities in Photonics and Electronics. <i>Accounts of Chemical Research</i> , 2018, 51, 609-618.	7.6	51
8612	Photocatalytic degradation of the herbicide imazapyr: do the initial degradation rates correlate with the adsorption kinetics and isotherms?. <i>Catalysis Science and Technology</i> , 2018, 8, 985-995.	2.1	31
8613	Auf sichtbares Licht ansprechende Photoanoden für hochaktive, dauerhafte Wasseroxidation. <i>Angewandte Chemie</i> , 2018, 130, 8530-8550.	1.6	22
8614	A Guide to In Vivo Optogenetic Applications for Cerebellar Studies. <i>Neuromethods</i> , 2018, , 109-128.	0.2	1
8615	A Stable Blue Photosensitizer for Color Palette of Dye-Sensitized Solar Cells Reaching 12.6% Efficiency. <i>Journal of the American Chemical Society</i> , 2018, 140, 2405-2408.	6.6	270
8616	High-performance ZnS/GaN heterostructure photoanode for photoelectrochemical water splitting applications. <i>Acta Materialia</i> , 2018, 146, 171-175.	3.8	55

#	ARTICLE	IF	CITATIONS
8617	Dye-Sensitized Solar Cells. Asian Journal of Organic Chemistry, 2018, 7, 458-464.	1.3	12
8618	Efficient carbon dots/NiFe-layered double hydroxide/BiVO <sub>4</sub> photoanodes for photoelectrochemical water splitting. Applied Surface Science, 2018, 439, 1065-1071.	3.1	62
8619	Near infrared harvesting dye-sensitized solar cells enabled by rare-earth upconversion materials. Dalton Transactions, 2018, 47, 8526-8537.	1.6	48
8620	Silicon Nanocrystal-Based Organic/Inorganic Hybrid Solar Cells. , 2018, , 177-203.		1
8621	Solar driven electrochromic photoelectrochemical fuel cells for simultaneous energy conversion, storage and self-powered sensing. Nanoscale, 2018, 10, 3421-3428.	2.8	40
8622	Balancing Catalytic Activity and Interface Energetics of Electrocatalyst-Coated Photoanodes for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 3624-3633.	4.0	56
8623	Large area growth of MoTe <sub>2</sub> films as high performance counter electrodes for dye-sensitized solar cells. Scientific Reports, 2018, 8, 29.	1.6	68
8624	Facet-dependent photocatalysis of nanosize semiconductive metal oxides and progress of their characterization. Nano Today, 2018, 18, 15-34.	6.2	99
8625	Recent Advances in Sensitized Photocathodes: From Molecular Dyes to Semiconducting Quantum Dots. Advanced Science, 2018, 5, 1700684.	5.6	65
8626	Ground state geometries, UV/vis absorption spectra and charge transfer properties of triphenylamine-thiophenes based dyes for DSSCs: A TD-DFT benchmark study. Computational and Theoretical Chemistry, 2018, 1125, 39-48.	1.1	56
8627	Theoretical investigations on the unsymmetrical effect of $\beta$ -link Zn-porphyrin sensitizers on the performance for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2018, 20, 3741-3751.	1.3	24
8628	New-generation integrated devices based on dye-sensitized and perovskite solar cells. Energy and Environmental Science, 2018, 11, 476-526.	15.6	364
8629	Economically synthesized NiCo <sub>2</sub> S <sub>4</sub> /reduced graphene oxide composite as efficient counter electrode in dye-sensitized solar cell. Applied Surface Science, 2018, 437, 227-232.	3.1	25
8630	Hydrothermally synthesized fluorescent Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles for dye sensitized solar cells. Dyes and Pigments, 2018, 154, 303-313.	2.0	16
8631	Application of paper industry waste materials containing TiO <sub>2</sub> for dye-sensitized solar cells fabrication. Optik, 2018, 158, 469-476.	1.4	16
8632	Facile deposition of Cu <sub>2</sub> O in a UV-enhanced sulfite-mediated glucose fuel cell for photoelectrocatalytic reduction of oxygen. Journal of Alloys and Compounds, 2018, 740, 355-363.	2.8	9
8633	Chromatic Titanium Photoanode for Dye-Sensitized Solar Cells under Rear Illumination. ACS Applied Materials & Interfaces, 2018, 10, 2658-2666.	4.0	31
8634	Adding graphene nanosheets in liquid electrolytes to improve the efficiency of dye-sensitized solar cells. Materials Chemistry and Physics, 2018, 207, 154-160.	2.0	11

#	ARTICLE	IF	CITATIONS
8635	DFT/TD-semiempirical study on the structural and electronic properties and absorption spectra of supramolecular fullerene-porphyrine-metalloporphyrine triads based dye-sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 194, 57-66.	2.0	40
8636	Aqueous Solution-Processed Multifunctional SnO <sub>2</sub> Aggregates for Highly Efficient Dye-Sensitized Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 7136-7145.	1.8	11
8637	Molecular cobalt salophen catalyst-integrated BiVO <sub>4</sub> as stable and robust photoanodes for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10761-10768.	5.2	54
8638	A Facile Method for Loading CeO <sub>2</sub> Nanoparticles on Anodic TiO <sub>2</sub> Nanotube Arrays. <i>Nanoscale Research Letters</i> , 2018, 13, 89.	3.1	8
8639	Efficient Electron Injection from Excited Porphyrin to Titania Nanosheet. <i>Chemistry Letters</i> , 2018, 47, 803-805.	0.7	9
8640	Silicon based MIS photoanode for water oxidation: A comparison of RuO <sub>2</sub> and Ni Schottky contacts. <i>Applied Surface Science</i> , 2018, 461, 48-53.	3.1	18
8641	Effect of directional light dependence on enhanced photoelectrochemical performance of ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> binary heterostructure photoelectrodes. <i>Electrochimica Acta</i> , 2018, 276, 223-232.	2.6	13
8642	Reduced graphene oxide (RGO)/Cu <sub>2</sub> S composite as catalytic counter electrode for quantum dot-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 277, 50-58.	2.6	61
8643	Preparation of anatase TiO <sub>2</sub> nanoparticles using low hydrothermal temperature for dye-sensitized solar cell. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 316, 012055.	0.3	13
8644	Light as Trigger for Biocatalysis: Photonic Wiring of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase to Quantum Dot-Sensitized Inverse Opal TiO <sub>2</sub> Architectures via Redox Polymers. <i>ACS Catalysis</i> , 2018, 8, 5212-5220.	5.5	33
8645	A visible-light driven electrochemical biofuel cell with the function of CO <sub>2</sub> conversion to formic acid: coupled thylakoid from microalgae and biocatalyst immobilized electrodes. <i>New Journal of Chemistry</i> , 2018, 42, 9269-9280.	1.4	11
8646	Photocatalytic activity of Ti <sup>3+</sup> self-doped dark TiO <sub>2</sub> ultrafine nanorods, grey SiO <sub>2</sub> nanotwin crystalline, and their composite under visible light. <i>Materials Research Express</i> , 2018, 5, 045044.	0.8	4
8647	Enhanced photoelectrochemical performance of Si nanowires by etching a single-crystal Si(100) wafer. <i>Applied Surface Science</i> , 2018, 448, 126-132.	3.1	10
8648	New long-chain donor-acceptor-donor pyromellitic diimide (PMDI) derivatives. A combined theoretical and experimental study. <i>Dyes and Pigments</i> , 2018, 157, 143-150.	2.0	7
8649	Nanomaterials for Environmental Solar Energy Technologies: Applications & Limitations. <i>KONA Powder and Particle Journal</i> , 2018, 35, 14-31.	0.9	10
8650	NIR emitting K <sub>2</sub> SrCl <sub>4</sub> :Eu <sup>2+</sup> , Nd <sup>3+</sup> phosphor as a spectral converter for CIGS solar cell. <i>Optical Materials</i> , 2018, 79, 470-474.	1.7	7
8651	Polymer electrolyte integrated dye sensitized solar cells endow enhanced stability: Photoanode thickness and light intensity on cell performance. <i>Solar Energy</i> , 2018, 169, 159-166.	2.9	6
8652	Interface Engineering of Monolayer MoS <sub>2</sub> /GaN Hybrid Heterostructure: Modified Band Alignment for Photocatalytic Water Splitting Application by Nitridation Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17419-17426.	4.0	214

#	ARTICLE	IF	CITATIONS
8653	Biomimetic production, characterisation, in vitro cytotoxic and anticancer assessment of aqueous extract-mediated AgNPs of <i>Teucrium stocksianum</i> Boiss. IET Nanobiotechnology, 2018, 12, 270-276.	1.9	5
8654	Tungsten disulfide nanoparticles anchored on reduced graphene oxide for dye sensitized solar cell applications. AIP Conference Proceedings, 2018, , .	0.3	1
8655	Phase-Engineered Type-II Multimetal Selenide Heterostructures toward Low-Power Consumption, Flexible, Transparent, and Wide-Spectrum Photoresponse Photodetectors. Small, 2018, 14, e1704052.	5.2	32
8656	Electrodeposition of CdS onto BiVO <sub>4</sub> films with high photoelectrochemical performance. Journal of Solid State Electrochemistry, 2018, 22, 2569-2577.	1.2	19
8657	Influence of organic materials on solar cells efficiency. , 2018, , .		2
8658	Atomically engineered epitaxial anatase TiO <sub>2</sub> metal-semiconductor field-effect transistors. Applied Physics Letters, 2018, 112, .	1.5	5
8659	Decoupling the charge collecting and screening effects in piezotronics-regulated photoelectrochemical systems by using graphene as the charge collector. Nano Energy, 2018, 48, 377-382.	8.2	14
8660	A facile route for the synthesis of heterogeneous crystal structures in hierarchical architectures with vacancy-driven defects <i>via</i> the oriented attachment growth mechanism. Journal of Materials Chemistry A, 2018, 6, 10663-10673.	5.2	4
8661	Fabrication of ZnO nanostructures using Al doped ZnO (AZO) templates for application in photoelectrochemical water splitting. Applied Surface Science, 2018, 447, 200-212.	3.1	33
8662	Pt nanoparticle/Si nanowire composites as an excellent catalytic counter electrode for dye-sensitized solar cells. Electrochimica Acta, 2018, 271, 261-267.	2.6	12
8663	MOF-Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photoelectrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1800101.	10.2	143
8664	Stretchable Transparent Electrode Arrays for Simultaneous Electrical and Optical Interrogation of Neural Circuits in Vivo. Nano Letters, 2018, 18, 2903-2911.	4.5	146
8665	Anatase TiO <sub>2</sub> single crystals with dominant {001} facets: Synthesis, shape-control mechanism and photocatalytic activity. Applied Surface Science, 2018, 444, 267-275.	3.1	42
8666	Nanotextured Spikes of $\text{Fe}_2\text{O}_3/\text{NiFe}_2\text{O}_4$ Composite for Efficient Photoelectrochemical Oxidation of Water. Langmuir, 2018, 34, 3555-3564.	1.6	31
8667	Controlled Electrodeposition of Photoelectrochemically Active Amorphous MoS <sub>x</sub> Cocatalyst on Sb <sub>2</sub> Se <sub>3</sub> Photocathode. ACS Applied Materials & Interfaces, 2018, 10, 10898-10908.	4.0	50
8668	Controllable growth of Ni <sub>x</sub> Co <sub>y</sub> Se films and the influence of composition on the photovoltaic performance of quasi-solid-state dye-sensitized solar cells. Journal of Materials Chemistry C, 2018, 6, 3901-3909.	2.7	17
8669	Boosting the solar water oxidation performance of a BiVO <sub>4</sub> photoanode by crystallographic orientation control. Energy and Environmental Science, 2018, 11, 1299-1306.	15.6	330
8670	Decoration of vertically aligned TiO <sub>2</sub> nanotube arrays with WO <sub>3</sub> particles for hydrogen fuel production. Frontiers in Energy, 2018, 12, 249-258.	1.2	14

#	ARTICLE	IF	CITATIONS
8671	Efficient photocatalytic degradation by a silicon solar cell module with two Schottky junction TiO <sub>2</sub> /Ti electrodes. <i>Applied Physics Letters</i> , 2018, 112, 063905.	1.5	0
8672	Metal-Organic Frameworks for Photocatalysis. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 519-580.	0.3	0
8673	Stable Radical Materials for Energy Applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 83-103.	3.3	70
8674	Theoretical screening and design of SM315-based porphyrin dyes for highly efficient dye-sensitized solar cells with near-IR light harvesting. <i>Dyes and Pigments</i> , 2018, 155, 292-299.	2.0	41
8675	Upconverting nanophosphor incorporated photoanodes for improved photoelectric performances of quantum dot sensitized solar cells. <i>Materials Research Letters</i> , 2018, 6, 314-320.	4.1	9
8676	Exponential energy harvesting through repetitive reconfigurations of a system of capacitors. <i>Communications Physics</i> , 2018, 1, .	2.0	14
8677	Density functional theory study of atomic and electronic properties of defects in reduced anatase TiO <sub>2</sub> nanocrystals. <i>AIP Advances</i> , 2018, 8, .	0.6	22
8678	Environment approachable dye sensitized solar cell using abundant natural pigment based dyes with solid polymer electrolyte. <i>Optik</i> , 2018, 165, 186-194.	1.4	19
8679	Electric field effect on multi-anchoring molecular architectures: Electron transfer process and opto-electronic property. <i>Journal of Molecular Liquids</i> , 2018, 261, 123-136.	2.3	11
8680	Visible Light Driven Bromide Oxidation and Ligand Substitution Photochemistry of a Ru Diimine Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 5447-5456.	6.6	28
8681	An experimental validation of the effect of partial shade on the I-V characteristic of PV panel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 4165-4172.	1.5	12
8682	Microstructure and Photoelectric Response of Gold Nanocrystalline on TiO <sub>2</sub> Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7877-7884.	1.5	7
8683	Pyridinium-clubbed dicationic ionic liquid electrolytes for efficient next-generation photo harvesting. <i>New Journal of Chemistry</i> , 2018, 42, 6990-6996.	1.4	20
8684	A highly sensitive electrochemical sensor for the determination of methanol based on PdNPs@SBA-15-PrEn modified electrode. <i>Analytical Biochemistry</i> , 2018, 548, 32-37.	1.1	16
8685	Aggregation kinetics of irreversible patches coupled with reversible isotropic interaction leading to chains, bundles and globules. <i>Pure and Applied Chemistry</i> , 2018, 90, 1085-1098.	0.9	7
8686	Preparation and characterizations of PMMA-PVDF based polymer composite electrolyte materials for dye sensitized solar cell. <i>Current Applied Physics</i> , 2018, 18, 619-625.	1.1	52
8687	Progress in designing effective photoelectrodes for solar water splitting. <i>Chinese Journal of Catalysis</i> , 2018, 39, 369-378.	6.9	49
8688	pH-Dependence in facet-selective photo-deposition of metals and metal oxides on semiconductor particles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7500-7508.	5.2	26



#	ARTICLE	IF	CITATIONS
8689	Density functional theory study of carbazole dyes: Potential application of carbazole dyes in dye-sensitized solar cells. <i>Journal of Molecular Structure</i> , 2018, 1164, 155-163.	1.8	18
8690	A new approach to inducing Ti <sup>3+</sup> in anatase TiO <sub>2</sub> for efficient photocatalytic hydrogen production. <i>Chinese Journal of Catalysis</i> , 2018, 39, 510-516.	6.9	43
8691	Shining light on panchromatic ruthenium sensitizers towards dye-sensitized photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6963-6976.	3.8	13
8692	Fabrication of highly dispersed ultrafine Co <sub>9</sub> S <sub>8</sub> nanoparticles on carbon nanofibers as low-cost counter electrode for dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 95-103.	5.0	27
8693	Influence of iron doping on the photocatalytic activity of nanocrystalline TiO <sub>2</sub> particles fabricated by ultrasound method for enhanced degradation of organic dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6019-6031.	1.1	12
8694	Synthesis of CeO <sub>2</sub> /Ag/Ho nanostructures in order to improve photo catalytic activity of CeO <sub>2</sub> under visible light. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8817-8821.	1.1	8
8695	An MnNCN-Derived Electrocatalyst for CuWO <sub>4</sub> Photoanodes. <i>Langmuir</i> , 2018, 34, 3845-3852.	1.6	36
8696	Band Engineering of Carbon Nitride Monolayers by N-Type, P-Type, and Isoelectronic Doping for Photocatalytic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11143-11151.	4.0	92
8697	Hybrid TiO <sub>2</sub> /ZnO and TiO <sub>2</sub> /Al plasmon impregnated ZnO nanocomposite photoanodes for DSSCs: synthesis and characterisation. <i>Materials Research Express</i> , 2018, 5, 045053.	0.8	11
8698	Influence of TiO <sub>2</sub> Particle Size on Dye-Sensitized Solar Cells Employing an Organic Sensitizer and a Cobalt(III/II) Redox Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7051-7060.	1.5	35
8699	Rational Design of Dithienopicenocarbazole-Based Dyes and a Prediction of Their Energy-Conversion Efficiency Characteristics for Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 1435-1444.	2.5	36
8700	CdS/TiO <sub>2</sub> photoanodes via solution ion transfer method for highly efficient solar hydrogen generation. <i>Nano Futures</i> , 2018, 2, 015004.	1.0	19
8701	A new method for the fabrication of a bilayer WO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> photoelectrode for enhanced photoelectrochemical performance. <i>Materials Research Bulletin</i> , 2018, 98, 47-52.	2.7	34
8702	Exploring the use of impedance spectroscopy in relaxation and electrochemical studies. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 157-176.	3.4	4
8703	Controlling energy level positions in hole conducting molecular films by additives. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 100-106.	0.8	3
8704	Understanding charge transfer dynamics in QDs-TiO <sub>2</sub> nanorod array photoanodes for solar fuel generation. <i>Applied Surface Science</i> , 2018, 429, 48-54.	3.1	16
8705	Nanostructured hematite thin films for photoelectrochemical water splitting. <i>Physica B: Condensed Matter</i> , 2018, 535, 67-71.	1.3	26
8706	Photoelectrochemical enhancement of ZnO/BiVO <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> /rare earth oxide hetero-nanostructures. <i>Applied Surface Science</i> , 2018, 429, 29-36.	3.1	15

#	ARTICLE	IF	CITATIONS
8707	Effect of lithium salt on physicochemical properties of P(MMA-co-EMA) based copolymer electrolytes for dye-sensitized solar cell application. <i>Ionics</i> , 2018, 24, 269-276.	1.2	11
8708	Tech-integrated paradigm based approaches towards carbon-free hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 4279-4295.	8.2	12
8709	A comparative study between epoxy/Titania micro- and nanoparticulate composites thermal and mechanical behavior by means of particle-matrix interphase considerations. <i>Polymer Engineering and Science</i> , 2018, 58, 1146-1154.	1.5	11
8710	Enhanced performances of dye-sensitized solar cells based on Au-TiO <sub>2</sub> and Ag-TiO <sub>2</sub> plasmonic hybrid nanocomposites. <i>Applied Surface Science</i> , 2018, 430, 415-423.	3.1	84
8711	Enhanced photo-assistant electrocatalysis of anodization TiO <sub>2</sub> nanotubes via surrounded surface decoration with MoS <sub>2</sub> for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2018, 433, 197-205.	3.1	14
8712	WO <sub>3</sub> Mesoporous Nanobelts towards Efficient Photoelectrocatalysts for Water Splitting. <i>ChemElectroChem</i> , 2018, 5, 322-327.	1.7	25
8713	Recent Progress in the Surface Modification of Photoelectrodes toward Efficient and Stable Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2018, 24, 5697-5706.	1.7	49
8714	Fabrication of reduced graphene oxide/macrocyclic cobalt complex nanocomposites as counter electrodes for Pt-free dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 434, 412-422.	3.1	32
8715	Preparation and characterization of photocatalytic TiO <sub>2</sub> films on functionalized stainless steel. <i>Journal of Materials Science</i> , 2018, 53, 3341-3363.	1.7	15
8716	Promoted photoelectrochemical activity of BiVO <sub>4</sub> coupled with LaFeO <sub>3</sub> and LaCoO <sub>3</sub> . <i>Research on Chemical Intermediates</i> , 2018, 44, 1013-1024.	1.3	10
8717	Evaluating spinel ferrites MFe <sub>2</sub> O <sub>4</sub> (M = Cu, Mg, Zn) as photoanodes for solar water oxidation: prospects and limitations. <i>Sustainable Energy and Fuels</i> , 2018, 2, 103-117.	2.5	119
8718	Surface spintronics enhanced photo-catalytic hydrogen evolution: Mechanisms, strategies, challenges and future. <i>Applied Surface Science</i> , 2018, 434, 643-668.	3.1	42
8719	Combinatorial screening of photoanode materials - Uniform platform for compositional arrays and macroscopic electrodes. <i>Electrochimica Acta</i> , 2018, 259, 204-212.	2.6	12
8720	Calculation of Electronic and Optical Properties of AgGaO <sub>2</sub> Polymorphs Using Many-Body Approaches. <i>Journal of Electronic Materials</i> , 2018, 47, 1059-1070.	1.0	2
8721	Hydrogen incorporation by plasma treatment gives mesoporous black TiO <sub>2</sub> thin films with visible photoelectrochemical water oxidation activity. <i>Microporous and Mesoporous Materials</i> , 2018, 261, 35-43.	2.2	27
8722	Ti <sup>3+</sup> self-doped TiO <sub>2</sub> via facile catalytic reduction over Al(acac) <sub>3</sub> with enhanced photoelectrochemical and photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 715-724.	10.8	54
8723	Optimizing the photochemical conversion of UV-vis light of silver-nanoparticles decorated TiO <sub>2</sub> nanotubes based photoanodes. <i>Nanotechnology</i> , 2018, 29, 015703.	1.3	13
8724	Enhancement of the Photovoltaic Properties of Dye-Sensitized Solar Cells Using Y <sub>0.80</sub> Yb <sub>0.18</sub> Er <sub>0.02</sub> OF Nanorods. <i>Energy Technology</i> , 2018, 6, 744-751.	1.8	4

#	ARTICLE	IF	CITATIONS
8725	Fabrication of covalently linked graphene-mediated [FeFe]-hydrogenases biomimetic photocatalytic hydrogen evolution system in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 772-782.	10.8	20
8726	Enhancing Mo:BiVO <sub>4</sub> Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. <i>Advanced Energy Materials</i> , 2018, 8, 1701765.	10.2	92
8727	Effect of Few-Layered Graphene-Based CdO Nanocomposite-Enhanced Power Conversion Efficiency of Dye-Sensitized Solar Cell. <i>Journal of Electronic Materials</i> , 2018, 47, 620-626.	1.0	4
8728	Ultrathin nanoporous metal-semiconductor heterojunction photoanodes for visible light hydrogen evolution. <i>Nano Research</i> , 2018, 11, 2046-2057.	5.8	8
8729	Preparation of reduced graphene oxide/macrocyclic manganese complex composite materials as counter electrodes in dye-sensitized solar cells. <i>Organic Electronics</i> , 2018, 52, 51-60.	1.4	25
8730	Structural, optical, electrical properties and energy band diagram of Cu <sub>2</sub> ZnSiS <sub>4</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 577-583.	3.0	13
8731	Adsorption orientation effects of porphyrin dyes on the performance of DSSC: Comparison of benzoic acid and tropolone anchoring groups binding onto the TiO <sub>2</sub> anatase (101) surface. <i>Applied Surface Science</i> , 2018, 433, 1137-1147.	3.1	20
8732	Recent theoretical progress in the development of perovskite photovoltaic materials. <i>Journal of Energy Chemistry</i> , 2018, 27, 637-649.	7.1	48
8733	Recent advances in plasmonic dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , 2018, 258, 271-282.	1.4	43
8734	Modulating High-Index Facets on Anatase TiO <sub>2</sub> . <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 683-693.	1.0	23
8735	Nanomaterials for Solar Energy Conversion: Dye-Sensitized Solar Cells Based on Ruthenium(II) tris-Heteroleptic Compounds or Natural Dyes. , 2018, , 69-106.		9
8736	Defect pair formation in fluorine and nitrogen codoped TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 2018, 123, 161510.	1.1	9
8737	Study on deactivation and reaction mechanism of Co thiolate complexes in photocatalytic hydrogen production system. <i>International Journal of Energy Research</i> , 2018, 42, 977-984.	2.2	5
8738	Porous silicon-copper phthalocyanine heterostructure based photoelectrochemical cell. <i>Applied Surface Science</i> , 2018, 428, 463-468.	3.1	4
8739	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 77-85.	10.8	59
8740	Platinum/carbon black composites as counter electrodes for high-performance dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 255-262.	1.2	7
8741	Rational design of Si/TiO <sub>2</sub> heterojunction photocatalysts: Transfer matrix method. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 70-76.	10.8	23
8742	MoS <sub>2</sub> vertically grown on graphene with efficient electrocatalytic activity in Pt-free dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2018, 731, 685-692.	2.8	44

#	ARTICLE	IF	CITATIONS
8743	Improved photoelectrocatalytic hydrogen generation through BiVO <sub>4</sub> quantum-dots loaded on nano-structured SnO <sub>2</sub> and modified with carbon quantum-dots. <i>Chemical Engineering Journal</i> , 2018, 331, 48-53.	6.6	39
8744	Evaluating particle-suspension reactor designs for Z-scheme solar water splitting <i>via</i> transport and kinetic modeling. <i>Energy and Environmental Science</i> , 2018, 11, 115-135.	15.6	76
8745	Stability of Molecular Devices: Halide Perovskite Solar Cells. <i>Green Chemistry and Sustainable Technology</i> , 2018, , 477-531.	0.4	1
8746	Light-Driven Water Splitting in the Dye-Sensitized Photoelectrosynthesis Cell. <i>Green Chemistry and Sustainable Technology</i> , 2018, , 229-257.	0.4	6
8747	Photobatteries and Photocapacitors. <i>Green Chemistry and Sustainable Technology</i> , 2018, , 281-325.	0.4	4
8748	Near-Infrared, Heavy Metal-Free Colloidal Giant-Core/Shell Quantum Dots. <i>Advanced Energy Materials</i> , 2018, 8, 1701432.	10.2	90
8749	Optimal Metal Oxide Deposition Conditions and Properties for the Enhancement of Hydrogen Evolution over Particulate La <sub>0.5</sub> Ti <sub>0.2</sub> Cu <sub>0.1</sub> Ag <sub>0.1</sub> S <sub>0.5</sub> O <sub>7</sub> Photocathodes. <i>ChemPhotoChem</i> , 2018, 2, 234-239.	1.5	3
8750	Effect of tetravalent dopants on hematite nanostructure for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018, 427, 1203-1212.	3.1	51
8751	Broadening the photoresponsive activity of anatase titanium dioxide particles via decoration with partial gold shells. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 715-725.	5.0	5
8752	Enhancing Solar Light-Driven Photocatalytic Activity of Mesoporous Carbon-TiO <sub>2</sub> Hybrid Films via Upconversion Coupling. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1310-1317.	3.2	46
8753	An overview of engineered porous material for energy applications: a mini-review. <i>Ionics</i> , 2018, 24, 1-17.	1.2	61
8754	A large, ultra-black, efficient and cost-effective dye-sensitized solar module approaching 12% overall efficiency under 1000 lux indoor light. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1995-2003.	5.2	71
8755	Perspectives of ruthenium(II) polyazaaromatic photo-oxidizing complexes photoreactive towards tryptophan-containing peptides and derivatives. <i>Chemical Communications</i> , 2018, 54, 322-337.	2.2	7
8756	Bismuth Vanadate Photoelectrodes with High Photovoltage as Photoanode and Photocathode in Photoelectrochemical Cells for Water Splitting. <i>ChemSusChem</i> , 2018, 11, 589-597.	3.6	33
8757	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1104-1112.	4.0	327
8758	Template-free synthesis of interconnected carbon nanosheets <i>via</i> cross-linking coupled with annealing for high-efficiency triiodide reduction. <i>Green Chemistry</i> , 2018, 20, 250-254.	4.6	7
8759	Photobiocatalysis: Activating Redox Enzymes by Direct or Indirect Transfer of Photoinduced Electrons. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7958-7985.	7.2	277
8760	A highly efficient nanoporous BiVO <sub>4</sub> photoelectrode with enhanced interface charge transfer Co-catalyzed by molecular catalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 504-511.	10.8	40

#	ARTICLE	IF	CITATIONS
8761	Design of photoanode-based dye-sensitized photoelectrochemical cells assembling with transition metal complexes for visible light-induced water splitting. <i>Coordination Chemistry Reviews</i> , 2018, 357, 130-143.	9.5	47
8762	Hydrothermal synthesis of nanostructured Cr-doped hematite with enhanced photoelectrochemical activity. <i>Electrochimica Acta</i> , 2018, 260, 838-846.	2.6	34
8763	Effects of ammonia in the synthesis of copper (II) oxide nanostructures grown via microwave chemical bath deposition. <i>Surface and Coatings Technology</i> , 2018, 334, 438-443.	2.2	6
8764	Highly efficient Ag <sub>2</sub> Se quantum dots blocking layer for solid-state dye-sensitized solar cells: Size effects on device performances. <i>Materials Today Energy</i> , 2018, 7, 27-36.	2.5	22
8765	Fabrication, characterization and photoelectrochemical activity of tungsten-copper co-sensitized TiO <sub>2</sub> nanotube composite photoanodes. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 70-82.	5.0	89
8766	PHOTOANODIC AND PHOTOCATHODIC MATERIALS APPLIED FOR FREE-RUNNING SOLAR WATER SPLITTING DEVICES. , 2018, , 251-289.		0
8767	SOFT X-RAY SPECTROSCOPY ON PHOTOCATALYSIS. , 2018, , 343-360.		0
8768	Intriguing Cu-HâCu interactions in bis-(phenanthroline)Cu redox mediators for dye-sensitized solar cells. <i>Dalton Transactions</i> , 2018, 47, 1018-1022.	1.6	13
8769	Improving solar water-splitting performance of LaTaON <sub>2</sub> by bulk defect control and interface engineering. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 111-116.	10.8	26
8770	Enhancing photoelectrochemical water oxidation efficiency via self-catalyzed oxygen evolution: A case study on TiO <sub>2</sub> . <i>Nano Energy</i> , 2018, 44, 411-418.	8.2	43
8771	Theoretical Insight into Charge-Recombination Center in Ta <sub>3</sub> N <sub>5</sub> Photocatalyst: Interstitial Hydrogen. <i>Journal of Physical Chemistry C</i> , 2018, 122, 489-494.	1.5	9
8772	Morphology and photocatalytic activity of porous (In, Mg) co-doped ZnO nanoparticles. <i>Optik</i> , 2018, 156, 949-960.	1.4	19
8773	Photobiokatalyse: Aktivierung von Redoxenzymen durch direkten oder indirekten Transfer photoinduzierter Elektronen. <i>Angewandte Chemie</i> , 2018, 130, 8086-8116.	1.6	51
8774	A robust ruthenium complex with nonyl-substituted bpy ligand for dye-sensitized photoelectrochemical cell application. <i>Inorganica Chimica Acta</i> , 2018, 471, 467-474.	1.2	9
8775	Effect of rubrene:P3HT bilayer on photovoltaic performance of perovskite solar cells with electrodeposited ZnO nanorods. <i>Journal of Energy Chemistry</i> , 2018, 27, 455-462.	7.1	32
8776	Effects of surface nanostructuring and impurity doping on ultrafast carrier dynamics of silicon photovoltaic cells: a pump-probe study. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 024004.	1.3	1
8777	Visualized UV Photodetectors Based on Prussian Blue/TiO <sub>2</sub> for Smart Irradiation Monitoring Application. <i>Advanced Materials Technologies</i> , 2018, 3, 1700288.	3.0	63
8778	Electrocatalytic Alloys for CO <sub>2</sub> Reduction. <i>ChemSusChem</i> , 2018, 11, 48-57.	3.6	249

#	ARTICLE	IF	CITATIONS
8779	Evidence of superparamagnetism and improved electrical properties in Ba and Ta co-doped BiFeO <sub>3</sub> ceramics. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2584-2596.	2.8	46
8780	3D graphene foam/ZnO nanorods array mixed-dimensional heterostructure for photoelectrochemical biosensing. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 364-369.	3.0	13
8781	Alignment of Redox Levels at Semiconductor/Water Interfaces. <i>Chemistry of Materials</i> , 2018, 30, 94-111.	3.2	74
8782	Integration of Enzymes in Polyaniline-Sensitized 3D Inverse Opal TiO <sub>2</sub> Architectures for Light-Driven Biocatalysis and Light-to-Current Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 267-277.	4.0	20
8783	Low toxicity environmentally friendly single component aqueous organic ionic conductors for high efficiency photoelectrochemical solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1009-1016.	5.2	27
8784	Photoelectrochemically Active and Environmentally Stable CsPbBr <sub>3</sub> /TiO <sub>2</sub> Core/Shell Nanocrystals. <i>Advanced Functional Materials</i> , 2018, 28, 1704288.	7.8	413
8785	Effects of the bridge unit in D <sub>6h</sub> CA architecture to improve light harvesting efficiency at DSSCs: A first principle theoretical study. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1403-1410.	1.3	6
8786	Tough Hydrogel Electrolytes Doped with Polysulfide Redox Couples for Quantum-dot-sensitized Solar Cells. <i>Chemistry Letters</i> , 2018, 47, 51-54.	0.7	2
8787	Scale-Up of BiVO <sub>4</sub> Photoanode for Water Splitting in a Photoelectrochemical Cell: Issues and Challenges. <i>Energy Technology</i> , 2018, 6, 100-109.	1.8	49
8788	Microwave-assisted synthesis of C-doped TiO <sub>2</sub> and ZnO hybrid nanostructured materials as quantum-dots sensitized solar cells. <i>Applied Surface Science</i> , 2018, 434, 744-755.	3.1	39
8789	Effects of period number and sputtering time on optical properties of Si/Ge multilayer films deposited by magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1672-1679.	1.1	0
8790	Hydrothermal growth of undoped and boron doped ZnO nanorods as a photoelectrode for solar water splitting applications. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 85, 1-11.	1.1	30
8791	Regulations of silver halide nanostructure and composites on photocatalysis. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 269-299.	9.9	27
8792	Device Fabrication for Water Oxidation, Hydrogen Generation, and CO <sub>2</sub> Reduction via Molecular Engineering. <i>Joule</i> , 2018, 2, 36-60.	11.7	98
8793	Carbon nanotubes: A potential material for energy conversion and storage. <i>Progress in Energy and Combustion Science</i> , 2018, 64, 219-253.	15.8	184
8794	Rational integration of hierarchical structural CoS <sub>1.097</sub> nanosheets/reduced graphene oxide nanocomposites with enhanced electrocatalytic performance for triiodide reduction. <i>Carbon</i> , 2018, 126, 514-521.	5.4	23
8795	A multi-prong approach towards the development of high performance Temperature sensor using MWCNTs/Al <sub>2</sub> O <sub>3</sub> composite film. <i>Materials Research Bulletin</i> , 2018, 99, 1-9.	2.7	7
8796	Cd-doped SnO <sub>2</sub> /CdS heterostructures for efficient application in photocatalytic reforming of glycerol to produce hydrogen under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2018, 735, 400-408.	2.8	26

#	ARTICLE	IF	CITATIONS
8797	Nanostructured NiO x-coated TiO <sub>2</sub> electrodes for dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 352-360.	1.9	3
8798	Short Hydrogen Bonds on Reconstructed Nanocrystal Surface Enhance Oxygen Evolution Activity. <i>ACS Catalysis</i> , 2018, 8, 466-473.	5.5	20
8799	100% Enhancement of Charge Transport in Uniaxially Oriented Mesoporous Anatase TiO <sub>2</sub> Films. <i>Chemistry - A European Journal</i> , 2018, 24, 89-92.	1.7	9
8800	Heteroleptic diimine-diphosphine Cu(I) complexes as an alternative towards noble-metal based photosensitizers: Design strategies, photophysical properties and perspective applications. <i>Coordination Chemistry Reviews</i> , 2018, 356, 127-146.	9.5	243
8801	Semiconductor-Based Liquid-Junction Photoelectrochemical Solar Cells. <i>Lecture Notes in Quantum Chemistry II</i> , 2018, , 161-240.	0.3	0
8802	Recent developments in the design of photoreactors for solar energy conversion from water splitting and CO <sub>2</sub> reduction. <i>Applied Catalysis A: General</i> , 2018, 550, 122-141.	2.2	89
8803	Charge transfer and intrinsic electronic properties of rGO-WO <sub>3</sub> nanostructures for efficient photoelectrochemical and photocatalytic applications. <i>Materials Science in Semiconductor Processing</i> , 2018, 74, 136-146.	1.9	47
8804	Recent progress in organohalide lead perovskites for photovoltaic and optoelectronic applications. <i>Coordination Chemistry Reviews</i> , 2018, 373, 258-294.	9.5	67
8805	Electrochromism in Polymer-Electrolyte-Enabled Nanostructured WO <sub>3</sub> : Active Layer Thickness and Morphology on Device Performance. <i>ChemNanoMat</i> , 2018, 4, 203-212.	1.5	5
8806	Three-Component Synthesis and Photophysical Properties of Novel Coumarin-Based Merocyanines. <i>Chemistry - A European Journal</i> , 2018, 24, 974-983.	1.7	27
8807	Dissociative Water Adsorption on Gas-Phase Titanium Dioxide Cluster Anions Probed with Infrared Photodissociation Spectroscopy. <i>Topics in Catalysis</i> , 2018, 61, 92-105.	1.3	21
8808	Epigrammatic status and perspective of sequestration of carbon dioxide: Role of TiO <sub>2</sub> as photocatalyst. <i>Solar Energy</i> , 2018, 159, 423-433.	2.9	12
8809	Mechanistic and Time Resolved Single-Photon Counting Analysis for Light Harvesting Characteristics Depending on the Adsorption Mode of Organic Sensitizers in DSSCs. <i>Journal of Physical Chemistry C</i> , 2018, 122, 995-1002.	1.5	7
8810	Synthesis of CeO <sub>2</sub> /Au/Ho nanostructures as novel and highly efficient visible light driven photocatalyst. <i>Separation and Purification Technology</i> , 2018, 190, 117-122.	3.9	20
8811	Polyaniline-grafted silica nanocomposites-based gel electrolytes for quasi-solid-state dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 427, 458-464.	3.1	21
8812	Solid State and Aggregation Induced Emissive Chromophores by Multi-Component Syntheses. <i>Israel Journal of Chemistry</i> , 2018, 58, 889-900.	1.0	30
8813	Insights into the adsorption of organic molecules on rutile TiO <sub>2</sub> (1 1 0) surface: A theoretical study. <i>Vietnam Journal of Chemistry</i> , 2018, 56, 751-756.	0.7	4
8814	Reliability performance of up-scaling DSSC into sub-module in series design using hermetic sealing. <i>Journal of Physics: Conference Series</i> , 2018, 985, 012052.	0.3	4

#	ARTICLE	IF	CITATIONS
8815	The synthesis of titanium dioxide nanoparticles from titanium slag and its use for low temperature SCR catalyt. IOP Conference Series: Earth and Environmental Science, 2018, 208, 012011.	0.2	2
8817	Conversion of Solar Energy into Electrical Energy Storage: Supercapacitor as an Ultrafast Energy Storage Device Made from Biodegradable Agar Agar as a Novel and Low Cost Carbon Precursor. Global Challenges, 2018, 2, 1800037.	1.8	15
8818	Natural Wolframite Used as Cathode Photocatalyst for Improving the Performance of Microbial Fuel Cells. Applied Sciences (Switzerland), 2018, 8, 2504.	1.3	4
8819	Biosynthesis of AgNPs in Plumbagin (5-hydroxy-2-methyl-1,4-naphthoquinone) (P-AgNPs) Using the Endophytic Fungus Fusarium solani Isolated from an Endangered Medicinal Plant Plumbago rosea and Their Anti Bacterial and Anticancer Activity on Human Breast Cancer Cells (MCF-7). Biophysics (Russian) Tj ETQq1 10.784314 rgBT /Ove	0.2	1
8820	The confined space electron transfer in phosphotungstate intercalated ZnAl-LDHs enhances its photocatalytic performance for oxidation/extraction desulfurization of model oil in air. Green Chemistry, 2018, 20, 5509-5519.	4.6	47
8821	Structural evolution and microwave dielectric properties of a novel $\text{Li}_3\text{Mg}_2\text{Nb}_2\text{Ti}_x\text{O}_6$ system with a rock salt structure. Inorganic Chemistry Frontiers, 2018, 5, 3113-3125.	3.0	43
8822	Development of a $\text{WS}_2/\text{MoTe}_2$ heterostructure as a counter electrode for the improved performance in dye-sensitized solar cells. Inorganic Chemistry Frontiers, 2018, 5, 3178-3183.	3.0	27
8823	Sn-doped 3D ATO inverse opal/hematite hierarchical structures: facile fabrication and efficient photoelectrochemical performance. RSC Advances, 2018, 8, 42049-42059.	1.7	3
8824	Broadband ultraviolet to near infrared conversion in $\text{Eu}^{2+}, \text{Nd}^{3+}$ co-doped $\text{SrAl}_2\text{O}_4$ . RSC Advances, 2018, 8, 37396-37400.	1.7	4
8825	Enhanced visible light absorption performance of $\text{SnS}_2$ and $\text{SnSe}_2$ via surface charge transfer doping. RSC Advances, 2018, 8, 40464-40470.	1.7	10
8826	Efficient photoelectrochemical water oxidation using a $\text{TiO}_2$ nanosphere-decorated $\text{BiVO}_4$ heterojunction photoanode. RSC Advances, 2018, 8, 41439-41444.	1.7	17
8827	A bright outlook on organic photoelectrochemical cells for water splitting. Journal of Materials Chemistry A, 2018, 6, 21809-21826.	5.2	53
8828	Tailoring the porosity of MOF-derived N-doped carbon electrocatalysts for highly efficient solar energy conversion. Journal of Materials Chemistry A, 2018, 6, 20170-20183.	5.2	25
8829	A Meta Study on the Implications of Thermoelectric Generation on Hybrid Photovoltaic Systems. PAM Review Energy Science & Technology, 2018, 5, 104-118.	0.2	0
8832	Direct visible light activation of a surface cysteine-engineered [NiFe]-hydrogenase by silver nanoclusters. Energy and Environmental Science, 2018, 11, 3342-3348.	15.6	26
8833	Two-dimensional $\text{Pd}_3\text{P}_2\text{S}_8$ semiconductors as photocatalysts for the solar-driven oxygen evolution reaction: a theoretical investigation. Journal of Materials Chemistry A, 2018, 6, 23495-23501.	5.2	51
8834	Investigation of X-ray-induced Defects on Metals and Silicon by Using Coincidence Doppler Broadening Positron Annihilation Spectroscopy. Journal of the Korean Physical Society, 2018, 73, 1895-1898.	0.3	0
8835	Incorporation of Nanostructured Carbon Composite Materials into Counter Electrodes for Highly Efficient Dye-Sensitized Solar Cells. Nanoscale Research Letters, 2018, 13, 274.	3.1	4



#	ARTICLE	IF	CITATIONS
8836	Influence of Compression and Hot-compression in Electron Transport in Dye-sensitized Solar Cells Studied by Electrochemical Impedance Spectroscopy Analysis. , 2018, , .		1
8837	Structures and properties of N-doped TiO <sub>2</sub> nanotubes arrays synthesized by the anodization method for hydrogen production. Materials Today: Proceedings, 2018, 5, 14091-14098.	0.9	8
8838	A Novel Way for Improving the Overall Photoelectric Conversion Efficiency of Dye Sensitized TiO <sub>2</sub> Solar Cells. Procedia Computer Science, 2018, 131, 1336-1345.	1.2	5
8839	Substituent Effect on Pyridine Efficacy as a Chelating Stabilizer. , 2018, , .		1
8840	Synthesis and deposition of hematite nanoparticles on Fluorine-doped Tin Oxide (FTO) glass substrates. Materials Today: Proceedings, 2018, 5, 15828-15835.	0.9	8
8841	Eco-friendly Colloidal Quantum Dots for Efficient Photoelectrochemical Hydrogen Generation. IOP Conference Series: Earth and Environmental Science, 2018, 170, 042050.	0.2	2
8842	MIS Structures with RuO <sub>2</sub> Schottky Contact for Photoelectrochemical Water Splitting. , 2018, , .		0
8844	Graphene quantum dots from chemistry to applications. Materials Today Chemistry, 2018, 10, 221-258.	1.7	539
8845	A gas breathing hydrogen/air biofuel cell comprising a redox polymer/hydrogenase-based bioanode. Nature Communications, 2018, 9, 4715.	5.8	71
8846	In Situ Photoelectron Spectroscopy. , 2018, , 264-279.		1
8847	An iron oxide -copper bismuth oxide photoelectrochemical cell for spontaneous water splitting. International Journal of Hydrogen Energy, 2018, 43, 22807-22814.	3.8	12
8848	Band structure engineering and defect control of oxides for energy applications. Chinese Physics B, 2018, 27, 117104.	0.7	17
8849	Implementing Strong Interference in Ultrathin Film Top Absorbers for Tandem Solar Cells. ACS Photonics, 2018, 5, 5068-5078.	3.2	19
8850	Electron Transfer and Dye Regeneration in Dye-Sensitized Solar Cells. , 2018, , .		0
8851	Effect of surface modification of $\text{TiO}_2$ on the electrochemical performance of lithium-sulfur cell. Bulletin of Materials Science, 2018, 41, 1.	0.8	0
8852	Increase of power conversion efficiency in dye-sensitized solar cells through ferroelectric substrate induced charge transport enhancement. Scientific Reports, 2018, 8, 17389.	1.6	16
8853	Donor functionalized quinoline based organic sensitizers for dye sensitized solar cell (DSSC) applications: DFT and TD-DFT investigations. Journal of Molecular Modeling, 2018, 24, 343.	0.8	25
8854	Inorganic semiconductor biointerfaces. Nature Reviews Materials, 2018, 3, 473-490.	23.3	154

#	ARTICLE	IF	CITATIONS
8855	Porous tremella-like NiCo <sub>2</sub> S <sub>4</sub> networks electrodes for high-performance dye-sensitized solar cells and supercapacitors. Solar Energy, 2018, 176, 762-770.	2.9	20
8856	Theoretical Design of an InSe/GaTe vdW Heterobilayer: A Potential Visible-Light Photocatalyst for Water Splitting. Journal of Physical Chemistry C, 2018, 122, 27803-27810.	1.5	55
8857	DFT Calculations of Structure and Optical Properties in Wide Band-Gap Semiconductor Clusters for Dye-Sensitized Solar Cells. , 2018, , .		0
8858	Recent advancements in compact layer development for perovskite solar cells. Heliyon, 2018, 4, e00912.	1.4	20
8859	Photocatalysis: From Fundamental Principles to Materials and Applications. ACS Applied Energy Materials, 2018, 1, 6657-6693.	2.5	370
8860	Water Dissociation and Hydroxyl Ordering on Anatase $\text{TiO}_2$ (101) Surfaces. Journal of Physical Chemistry C, 2018, 122, 27803-27810.		

#	ARTICLE	IF	CITATIONS
8876	Metal-Organic Frameworks-Based Electrocatalysis: Insight and Future Perspectives. Comments on Inorganic Chemistry, 2018, 38, 166-209.	3.0	9
8877	Performance of 7-cells Dye Sensitized Solar Module in Z-type Series Interconnection. IOP Conference Series: Materials Science and Engineering, 2018, 299, 012088.	0.3	2
8878	Enhancement of Visible-Light Photocatalytic Hydrogen Production by CeCO <sub>3</sub> OH in g-C <sub>3</sub> N <sub>4</sub> /CeO <sub>2</sub> System. ChemCatChem, 2019, 11, 1069-1075.	1.8	24
8879	A theoretical study of fused thiophene modified anthracene-based organic dyes for dye-sensitized solar cell applications. New Journal of Chemistry, 2018, 42, 20163-20170.	1.4	21
8880	Computational Prediction of Electronic and Photovoltaic Properties of Anthracene-Based Organic Dyes for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2018, 2018, 1-17.	1.4	2
8882	Interface Potentials, Intrinsic Defects, and Passivation Mechanisms in Al <sub>2</sub> O <sub>3</sub> , HfO <sub>2</sub> , and TiO <sub>2</sub> Ultrathin Films. , 2018, , 162-171.		4
8883	Silicon-silver dendritic nanostructures for the enhanced photoelectrochemical splitting of natural water. International Journal of Hydrogen Energy, 2018, 43, 22815-22826.	3.8	8
8884	Light-Tuned DC Conductance of Anatase TiO <sub>2</sub> Nanotubular Arrays: Features of Long-Range Charge Transport. Nanomaterials, 2018, 8, 915.	1.9	3
8885	Hierarchical Ta-Doped TiO <sub>2</sub> Nanorod Arrays with Improved Charge Separation for Photoelectrochemical Water Oxidation under FTO Side Illumination. Nanomaterials, 2018, 8, 983.	1.9	12
8886	The Mechanism of Adsorption, Diffusion, and Photocatalytic Reaction of Organic Molecules on TiO <sub>2</sub> Revealed by Means of On-Site Scanning Tunneling Microscopy Observations. Catalysts, 2018, 8, 616.	1.6	5
8887	Direct Measurement of Electronic Band Structure in Single Quantum Dots of Metal Chalcogenide Composites. Small, 2018, 14, e1801668.	5.2	18
8888	Determination of the lattice thermal conductivity of the TiO <sub>2</sub> polymorphs rutile and anatase by molecular dynamics simulation. Computational Condensed Matter, 2018, 17, e00342.	0.9	8
8889	Reprint of "Photoelectrocatalytic behavior of electrodeposited zinc ferrite films with varying Zn:Fe ratio". Journal of Photochemistry and Photobiology A: Chemistry, 2018, 366, 18-26.	2.0	1
8890	Enhanced Photocatalytic Water Splitting on Very Thin WO <sub>3</sub> Films Activated by High-Temperature Annealing. ACS Catalysis, 2018, 8, 10573-10580.	5.5	56
8891	Exploiting Intermolecular Interactions between Alkyl-Functionalized Redox-Active Molecule Pairs to Enhance Interfacial Electron Transfer. Journal of the American Chemical Society, 2018, 140, 13935-13944.	6.6	18
8892	Semiconductor Ultramicroelectrodes: Platforms for Studying Charge-Transfer Processes at Semiconductor/Liquid Interfaces. Analytical Chemistry, 2018, 90, 12261-12269.	3.2	9
8893	3D Hierarchical heterostructures of Bi <sub>2</sub> W <sub>1-x</sub> Mo <sub>x</sub> O <sub>6</sub> with enhanced oxygen evolution reaction from water under natural sunlight. New Journal of Chemistry, 2018, 42, 17597-17605.	1.4	8
8894	Titanium Dioxide Modifications for Energy Conversion: Learnings from Dye-Sensitized Solar Cells. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
8895	Theoretical investigations on newly designed triphenylamine-based donors applied into the Dâ€“A and Dâ€“A type sensitizers. <i>Journal of Computational Electronics</i> , 2018, 17, 1816-1834.	1.3	6
8896	Direct CVD Growth of Graphene on Technologically Important Dielectric and Semiconducting Substrates. <i>Advanced Science</i> , 2018, 5, 1800050.	5.6	81
8897	Roles of Chenodeoxycholic Acid Coadsorbent in Anthracene-Based Dye-Sensitized Solar Cells: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23280-23287.	1.5	18
8898	Anchoring Group and ĩ€-Spacer Effects on the Dynamics and Kinetics of the Photovoltaic Processes in the Quinoxaline-Based Organic Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23968-23977.	1.5	22
8899	Nanohybrid-sensitized photoelectrochemical cells for solar-to-hydrogen conversion. <i>MRS Communications</i> , 2018, 8, 754-764.	0.8	2
8900	Visible-Light-Active Photoelectrochemical Z-Scheme System Based on Top 5 Clarke-Number Elements. <i>ACS Applied Energy Materials</i> , 2018, 1, 5954-5959.	2.5	10
8901	Systematic Study of the Effect of Auxiliary Acceptors in Dâ€“A Sensitizers Used on Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23890-23898.	1.5	20
8902	The researcher's guide to solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11903-11942.	2.7	87
8903	Creation of a perovskite LaFeO <sub>3</sub> network as photoelectrode material using a salicylate-ligating lanthanum-iron complex precursor. <i>CrystEngComm</i> , 2018, 20, 6382-6386.	1.3	2
8904	Synergistic doping effects of a ZnO:N/BiVO <sub>4</sub> :Mo bunched nanorod array photoanode for enhancing charge transfer and carrier density in photoelectrochemical systems. <i>Nanoscale</i> , 2018, 10, 20256-20265.	2.8	42
8905	Aggregation induced light harvesting of molecularly engineered D-A-ĩ€A carbazole dyes for dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 174, 1085-1096.	2.9	31
8906	A comprehensive review on counter electrodes for dye sensitized solar cells: A special focus on Pt-TCO free counter electrodes. <i>Solar Energy</i> , 2018, 174, 1097-1125.	2.9	116
8907	Push-Pull Diphenylhydrazones Bearing Bithiophene or Thienothiophene Spacers as Nonlinear Optical Second Harmonic Generators and as Photosensitizers for Nanocrystalline TiO <sub>2</sub> Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2018, 3, 12893-12904.	1.6	25
8908	Accurate electron affinity of Ti and fine structures of its anions. <i>Journal of Chemical Physics</i> , 2018, 149, 134304.	1.2	29
8909	Modeling the Impact of Metallic Plasmonic Resonators on the Solar Conversion Efficiencies of Semiconductor Photoelectrodes: When Does Introducing Buried Plasmonic Nanostructures Make Sense?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24279-24286.	1.5	5
8910	What Else Can Photoelectrochemical Solar Energy Conversion Do Besides Water Splitting and CO <sub>2</sub> Reduction?. <i>ACS Energy Letters</i> , 2018, 3, 2610-2612.	8.8	29
8911	Interactions between Metal Oxides and Biomolecules: from Fundamental Understanding to Applications. <i>Chemical Reviews</i> , 2018, 118, 11118-11193.	23.0	167
8912	Photoemission from Bi-doped calcium aluminate glasses similar to sunlight. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2542-2550.	1.9	3

#	ARTICLE	IF	CITATIONS
8913	Dual-Functional Photocatalytic and Photoelectrocatalytic Systems for Energy- and Resource-Recovering Water Treatment. <i>ACS Catalysis</i> , 2018, 8, 11542-11563.	5.5	138
8914	Enhanced Photocurrent via $\pi$ -Bridge Extension of Perylenemonoimide-Based Dyes for p-Type Dye-Sensitized Solar Cells and Photoelectrochemical Cells. <i>ACS Omega</i> , 2018, 3, 14448-14456.	1.6	10
8915	Efficient Energy Harvesting in SnO <sub>2</sub> -Based Dye-Sensitized Solar Cells Utilizing Nano-Amassed Mesoporous Zinc Oxide Hollow Microspheres as Synergy Boosters. <i>ACS Omega</i> , 2018, 3, 14482-14493.	1.6	28
8916	High-Frequency Stimulation of Normal and Blind Mouse Retinas Using TiO <sub>2</sub> Nanotubes. <i>Advanced Functional Materials</i> , 2018, 28, 1804639.	7.8	13
8917	Limitation of Fermi level shifts by polaron defect states in hematite photoelectrodes. <i>Nature Communications</i> , 2018, 9, 4309.	5.8	95
8918	Non-precious co-catalysts boost the performance of TiO <sub>2</sub> hierarchical hollow mesoporous spheres in solar fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 21219-21230.	3.8	41
8919	Temperature dependent photoluminescence of anatase and rutile TiO <sub>2</sub> single crystals: Polaron and self-trapped exciton formation. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	39
8920	Nano-delivery of Food-Derived Biomolecules: An Overview. , 2018, , 447-470.		5
8921	Metal oxide semiconductors for solar water splitting. , 2018, , 205-249.		9
8922	A Molecular Silane-Derivatized Ru(II) Catalyst for Photoelectrochemical Water Oxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 15062-15069.	6.6	29
8923	Atomistic Investigation of Doping Effects on Electrocatalytic Properties of Cobalt Oxides for Water Oxidation. <i>Advanced Science</i> , 2018, 5, 1801632.	5.6	17
8924	Influence of one-dimensional TiO <sub>2</sub> nanotube on interfacial electron transfer in dye-sensitized solar cells: Insights from theoretical investigation. <i>Solar Energy</i> , 2018, 176, 545-555.	2.9	15
8925	Effect of Water Adsorption on the Interfacial Structure and Band Edge Alignment of Anatase TiO <sub>2</sub> (001)/Water by First-Principles Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26965-26973.	1.5	22
8926	Electrospun titania fibers by incorporating graphene/Ag hybrids for the improved visible-light photocatalysis. <i>Frontiers of Materials Science</i> , 2018, 12, 379-391.	1.1	5
8927	Ambient-Stable Cubic-Phase Hybrid Perovskite Reaching the Shockley-Queisser Fill Factor Limit via Inorganic Additive-Assisted Process. <i>ACS Applied Energy Materials</i> , 2018, 1, 5865-5871.	2.5	13
8928	Carbon Dioxide Conversion to Methanol: Opportunities and Fundamental Challenges. , 2018, , .		14
8929	From Rusting to Solar Power Plants: A Successful Nano-Patterning of Stainless Steel 316L for Visible Light-Induced Photoelectrocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17352-17358.	3.2	21
8930	A Tandem Water Splitting Cell Based on Nanoporous BiVO <sub>4</sub> Photoanode Cocatalyzed by Ultrasmall Cobalt Borate Sandwiched with Conformal TiO <sub>2</sub> Layers. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16228-16234.	3.2	25

#	ARTICLE	IF	CITATIONS
8932	Synthesis and investigation on synergetic effect of rGO-ZnO decorated MoS <sub>2</sub> microflowers with enhanced photocatalytic and antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 559, 43-53.	2.3	54
8934	Organic semiconductor/water interfaces for photoelectrical viscosity sensing. <i>Electrochemistry Communications</i> , 2018, 95, 18-22.	2.3	0
8937	Investigation on the Thickness Effect of TiO <sub>2</sub> Photo- Anode on Dye-Sensitized Solar Cell Performance. <i>Solid State Phenomena</i> , 2018, 280, 76-80.	0.3	4
8938	Dynamic Photoelectrochemical Device with Open-Circuit Potential Insensitive to Thermodynamic Voltage Loss. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5412-5418.	2.1	13
8939	Enhanced Electrochemical Water Splitting with Chiral Molecule-Coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>ACS Energy Letters</i> , 2018, 3, 2308-2313.	8.8	103
8940	Orthorhombic NiSe <sub>2</sub> Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33198-33204.	4.0	49
8941	First-principles study of the nanotubes from the TiO <sub>2</sub> hexagonal sheet. <i>Journal of Materials Science</i> , 2018, 53, 15530-15540.	1.7	4
8943	Optical properties of anatase TiO <sub>2</sub> : synergy between transition metal doping and oxygen vacancies. <i>Journal of Molecular Modeling</i> , 2018, 24, 276.	0.8	8
8944	Metal oxide electrodes for photo-activated water splitting. , 2018, , 19-48.		4
8945	Effects of cathodic electrodeposition conditions on morphology and photoelectrochemical response of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> photoanode. <i>Thin Solid Films</i> , 2018, 666, 161-171.	0.8	13
8946	Photosynthesis-inspired bifunctional energy-harvesting devices that convert light and salinity gradients into electricity. <i>Chemical Communications</i> , 2018, 54, 12310-12313.	2.2	8
8947	Ultrathin FeF <sub>x</sub> nanolayers accelerating hole transfer for enhanced photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19342-19346.	5.2	8
8948	Recent progress in iron oxide based photoanodes for solar water splitting. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 473002.	1.3	44
8949	Electrochemical analysis of dye sensitized solar cell employing indoline-based and ruthenium-based dye combined with volatile and low-volatility solution-based electrolyte. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19245-19255.	1.1	2
8950	Low-temperature ozone annealing for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 290-293.	2.0	2
8951	Noble metal-free Co@N-doped carbon nanotubes as efficient counter electrode in dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 174, 225-230.	2.9	20
8952	Recent Advances in BiVO <sub>4</sub> - and Bi <sub>2</sub> Te <sub>3</sub> -Based Materials for High Efficiency-Energy Applications. , 0, , .		1
8954	Mechanism of Laser-Induced Bulk and Surface Defect Generation in ZnO and TiO <sub>2</sub> Nanoparticles: Effect on Photoelectrochemical Performance. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	9

#	ARTICLE	IF	CITATIONS
8955	Synergy between quantum confinement and chemical functionality of graphene dots promotes photocatalytic H <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18216-18224.	5.2	10
8956	Efficient gas phase VOC removal and electricity generation in an integrated bio-photo-electro-catalytic reactor with bio-anode and TiO <sub>2</sub> photo-electro-catalytic air cathode. <i>Bioresource Technology</i> , 2018, 270, 554-561.	4.8	32
8957	The core-shell-structured NaYF <sub>4</sub> :Er <sup>3+</sup> ,Yb <sup>3+</sup> @NaYF <sub>4</sub> :Eu <sup>3+</sup> nanocrystals as dual-mode and multifunctional luminescent mechanism for high-performance dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2018, 108, 219-225.	2.7	15
8958	Overall water splitting by Ta <sub>3</sub> N <sub>5</sub> nanorod single crystals grown on the edges of KTaO <sub>3</sub> particles. <i>Nature Catalysis</i> , 2018, 1, 756-763.	16.1	390
8959	Photo-electrochemical hydrogen production from neutral phosphate buffer and seawater using micro-structured p-Si photo-electrodes functionalized by solution-based methods. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2215-2223.	2.5	14
8960	Defect-Induced Water Bilayer Growth on Anatase TiO <sub>2</sub> (101). <i>Langmuir</i> , 2018, 34, 10856-10864.	1.6	11
8961	TiO <sub>2</sub> nano-flakes with high activity obtained from phosphorus doped TiO <sub>2</sub> nanoparticles by hydrothermal method. <i>Ceramics International</i> , 2018, 44, 22129-22134.	2.3	22
8962	Mechanism Investigation of the Postnecking Treatment to WO <sub>3</sub> Photoelectrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 4670-4677.	2.5	14
8963	Morphology Effect of NiSe Hierarchical Microspheres on the Performance of Dye-Sensitized Solar Cells. <i>ACS Applied Nano Materials</i> , 2018, 1, 4900-4909.	2.4	18
8964	A Photoelectrochemical Device with Dynamic Interface Energetics: Understanding of Structural and Physical Specificities and Improvement of Performance and Stability. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800083.	2.7	7
8965	Effects of the terminal donor unit in dyes with D-π-A architecture on the regeneration mechanism in DSSCs: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23564-23577.	1.3	15
8966	Multi-scale simulations of polymeric nanoparticle aggregation during rapid solvent exchange. <i>Journal of Chemical Physics</i> , 2018, 149, 084904.	1.2	11
8967	High-performance dye-sensitized solar cells using Ag-doped CoS counter electrodes. <i>RSC Advances</i> , 2018, 8, 18792-18799.	1.7	14
8968	Photoelectrocatalytic behavior of electrodeposited zinc ferrite films with varying Zn:Fe ratio. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 362, 49-57.	2.0	8
8969	Fabrication of Hierarchical V <sub>2</sub> O <sub>5</sub> Nanorods on TiO <sub>2</sub> Nanofibers and Their Enhanced Photocatalytic Activity under Visible Light. <i>ChemCatChem</i> , 2018, 10, 3305-3318.	1.8	70
8970	Organic Sensitizers for Photoanode Water Splitting in Dye-Sensitized Photoelectrochemical Cells. <i>ChemElectroChem</i> , 2018, 5, 2395-2402.	1.7	10
8971	Influence of the type of conducting glass substrate on the properties of electrodeposited CdS and CdTe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12419-12428.	1.1	10
8972	ZnO/CuO photoelectrode with n-p heterogeneous structure for photoelectrocatalytic oxidation of formaldehyde. <i>Applied Surface Science</i> , 2018, 455, 181-186.	3.1	42

#	ARTICLE	IF	CITATIONS
8973	Photocatalysis with Pt@Au@ZnO and Au@ZnO Hybrids: Effect of Charge Accumulation and Discharge Properties of Metal Nanoparticles. <i>Langmuir</i> , 2018, 34, 7334-7345.	1.6	47
8974	The effect of <i>cis</i> vs <i>trans</i> configurational difference on the performance of pyridylimine-based ruthenium sensitizers. <i>Dalton Transactions</i> , 2018, 47, 8356-8363.	1.6	2
8975	Surface Engineering of Carbon Nitride Electrode by Molecular Cobalt Species and Their Photoelectrochemical Application. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1539-1543.	1.7	30
8976	Enhancing Hydrogen Generation Through Nanoconfinement of Sensitizers and Catalysts in a Homogeneous Supramolecular Organic Framework. <i>Small</i> , 2018, 14, e1801037.	5.2	44
8977	Systematic study of mono- and tri-TEMPO-based electrolytes for highly efficient next-generation dye-sensitized photo harvesting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 363, 1-6.	2.0	9
8978	Tailoring Crystallographic Orientations to Substantially Enhance Charge Separation Efficiency in Anisotropic BiVO <sub>4</sub> Photoanodes. <i>ACS Catalysis</i> , 2018, 8, 5952-5962.	5.5	85
8979	Recent progressive efforts in perovskite solar cells toward commercialization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12215-12236.	5.2	56
8980	Defect management and efficient photocatalytic water oxidation reaction over Mg modified SrNbO <sub>2</sub> N. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10947-10957.	5.2	38
8981	Coupled forward-backward trajectory approach for nonequilibrium electron-ion dynamics. <i>Physical Review B</i> , 2018, 97, .	1.1	12
8982	Irreversible surface changes upon n-type doping – A photoelectrochemical study on rutile single crystals. <i>Electrochimica Acta</i> , 2018, 280, 278-289.	2.6	4
8983	Electrospinning synthesis of high performance carbon nanofiber coated flower-like MoS <sub>2</sub> nanosheets for dye-sensitized solar cells counter electrode. <i>Electrochimica Acta</i> , 2018, 280, 94-100.	2.6	44
8984	Electron Transfer at the Metal Oxide/Electrolyte Interface: A Simple Methodology for Quantitative Kinetics Evaluation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12761-12770.	1.5	4
8985	D- and D-Typed Hole Transport Materials for Efficient Perovskite Solar Cells: Tuning Photovoltaic Properties via the Acceptor Group. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19697-19703.	4.0	101
8986	High efficiency nitrogen-doped core-shell carbon spheres as counter electrodes for dye-sensitized solar cells. <i>Materials Letters</i> , 2018, 227, 172-175.	1.3	14
8987	Sensitization of nir emission by tetravalent cerium in K <sub>2</sub> CeO <sub>3</sub> :Nd,Yb. <i>Journal of Alloys and Compounds</i> , 2018, 763, 159-163.	2.8	8
8988	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , 2018, 47, 5354-5422.	18.7	177
8989	Efficiency enhancement of bifacial dye-sensitized solar cells through bi-tandem carbon quantum dots tailored transparent counter electrodes. <i>Electrochimica Acta</i> , 2018, 278, 204-209.	2.6	28
8990	Effect of annealing temperature on the PEC performance of electrodeposited copper oxides. <i>AIP Conference Proceedings</i> , 2018, .	0.3	2



#	ARTICLE	IF	CITATIONS
8991	Design of novel phenanthrocarbazole dyes for efficient applications in dye-sensitized solar cells. <i>Computational Materials Science</i> , 2018, 151, 34-40.	1.4	15
8992	Carbon Nitride/Reduced Graphene Oxide Film with Enhanced Electron Diffusion Length: An Efficient Photoelectrochemical Cell for Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1800566.	10.2	83
8993	Photoelectrocatalytic oxidation of ascorbate promoted by glucose and tris-(hydroxylmethyl)-amino methane on cadmium sulfide/titanium dioxide electrodes for efficient visible light-enhanced fuel cells. <i>Electrochimica Acta</i> , 2018, 280, 332-339.	2.6	11
8994	Electronic structure and photoabsorption of $Ti^{3+}$ ions in reduced anatase and rutile $TiO_2$ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17658-17665.	1.3	38
8995	Electrophoretic behavior of solvothermal synthesized anion replaced $Cu_2ZnSn(S_xSe_{1-x})_4$ films for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11990-12001.	3.8	13
8996	Stacked rGO/TiO <sub>2</sub> photoanode via electrophoretic deposition for highly efficient dye-sensitized solar cells. <i>Organic Electronics</i> , 2018, 59, 399-405.	1.4	27
8997	Laser-Textured Metal Substrates as Photoanodes for Enhanced PEC Water Splitting Reactions. <i>Advanced Engineering Materials</i> , 2018, 20, 1800167.	1.6	14
8998	Nanocomposites of nickel selenide supported on cube-shaped lidless graphitic boxes as efficient counter electrodes for quasi-solid-state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 281, 237-245.	2.6	14
8999	Synergistic effect of $Ti(OBu)_4$ and annealing regime on the structure, morphology and photoelectrochemical response of $Fe_2O_3$ photoanode. <i>Electrochimica Acta</i> , 2018, 281, 246-256.	2.6	13
9000	Intramolecular Charge Transfer and Local Excitation in Organic Fluorescent Photoredox Catalysts Explained by RASCI-PDFT. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12061-12070.	1.5	16
9001	Annealing effect on the structural and dielectric properties of hematite nanoparticles. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	11
9002	Highly Efficient Water Harvesting with Optimized Solar Thermal Membrane Distillation Device. <i>Global Challenges</i> , 2018, 2, 1800001.	1.8	108
9004	$NaBH_4$ reduction of $TiSiO$ nanotubes photoanode for high-efficiency photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14183-14192.	3.8	16
9005	Biomimetic materials assembled on a photovoltaic cell as a novel biosensing approach to cancer biomarker detection. <i>Scientific Reports</i> , 2018, 8, 10205.	1.6	19
9006	Rational design criteria for structured organic and porphyrin sensitizers for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14518-14545.	5.2	256
9007	Vibrational structure analysis of cobalt fluoro-porphyrin surface coatings on gallium phosphide. <i>Journal of Porphyrins and Phthalocyanines</i> , 2018, 22, 461-466.	0.4	4
9009	Dye-sensitized Solar Cell Technology: Recent Development and Advancement. <i>Green Energy and Technology</i> , 2018, , 221-250.	0.4	2
9010	Clarifying the Roles of Oxygen Vacancy in W-Doped $BiVO_4$ for Solar Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 3410-3419.	2.5	77

#	ARTICLE	IF	CITATIONS
9011	Nanotechnology for Energy. , 2018, , 105-118.		0
9012	High performance hierarchical SiCN nanowires for efficient photocatalytic - photoelectrocatalytic and supercapacitor applications. Applied Catalysis B: Environmental, 2018, 237, 876-887.	10.8	27
9013	Mesoporous TiO <sub>2</sub> thin films prepared from hydrothermally treated precursor powder sols. Journal of Sol-Gel Science and Technology, 2018, 87, 292-298.	1.1	0
9014	Applications of Organized Films at Solidâ€“Liquid and Liquidâ€“Gas Interfaces. Interface Science and Technology, 2018, 21, 405-425.	1.6	1
9015	First Evidence of Electrode Reconstruction in Mesoporous NiO After Operation as Photocathode of Dyeâ€“Sensitized Solar Cells. ChemistrySelect, 2018, 3, 6729-6736.	0.7	8
9016	Recent advances in copper complexes for electrical/light energy conversion. Coordination Chemistry Reviews, 2018, 375, 514-557.	9.5	159
9017	Controllable synthesis of organic-inorganic hybrid halide perovskite quantum dots for quasi-solid-state solar cells. Electrochimica Acta, 2018, 282, 263-269.	2.6	18
9018	Preparation of CdS/BiOCl/Bi <sub>2</sub> O <sub>3</sub> double composite system for visible light active photocatalytic applications. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 159-168.	2.0	19
9019	Recent advances in rational engineering of multinary semiconductors for photoelectrochemical hydrogen generation. Nano Energy, 2018, 51, 457-480.	8.2	140
9020	Pyrazine-incorporating panchromatic sensitizers for dye sensitized solar cells under one sun and dim light. Journal of Materials Chemistry A, 2018, 6, 13778-13789.	5.2	73
9021	Enhanced transient photovoltaic characteristics of coreâ€“shell ZnSe/ZnS/L-Cys quantum-dot-sensitized TiO <sub>2</sub> thin-film. Chinese Physics B, 2018, 27, 067305.	0.7	3
9022	An Overview of Metal Oxide Nanostructures. , 2018, , 19-57.		45
9023	TiO <sub>2</sub> nanofiber photoelectrochemical cells loaded with sub-12 nm AuNPs: Size dependent performance evaluation. Materials Today Energy, 2018, 9, 254-263.	2.5	23
9024	Perovskite Photovoltaic Integrated CdS/TiO <sub>2</sub> Photoanode for Unbiased Photoelectrochemical Hydrogen Generation. ACS Applied Materials & Interfaces, 2018, 10, 23766-23773.	4.0	38
9025	Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal â€“Core/Shell Quantum Dots. Advanced Science, 2018, 5, 1800656.	5.6	63
9026	Bias-Dependent Scanning Tunneling Microscopy Signature of Bridging-Oxygen Vacancies on Rutile TiO <sub>2</sub> (110). ACS Omega, 2018, 3, 6540-6545.	1.6	5
9027	Non-covalent polyhedral oligomeric silsesquioxane-polyoxometalates as inorganicâ€“organic hybrid materials for visible-light photocatalytic splitting of water. Inorganic Chemistry Frontiers, 2018, 5, 2666-2677.	3.0	19
9028	Novel Imidazole Substituted Bodipy-Based Organic Sensitizers in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2018, 2018, 1-9.	1.4	7

#	ARTICLE	IF	CITATIONS
9029	Visible-light-driven CdSe quantum dots/graphene/TiO <sub>2</sub> nanosheets composite with excellent photocatalytic activity for E. coli disinfection and organic pollutant degradation. Applied Surface Science, 2018, 457, 846-855.	3.1	151
9030	Study of micro-structural, optical and electrical properties of TiO <sub>2</sub> films obtained from micro-controller based SILAR method. Ceramics International, 2018, 44, 17623-17629.	2.3	13
9031	Graphene oxide as stable electrocatalytic substrate for solid-state bifacial dye-sensitized solar cells. Journal of Alloys and Compounds, 2018, 764, 482-489.	2.8	1
9032	Oxide Nanomaterials for Photoelectrochemical Hydrogen Energy Sources. Advances in Inorganic Chemistry, 2018, , 145-183.	0.4	9
9033	CuS/WS <sub>2</sub> and CuS/MoS <sub>2</sub> heterostructures for high performance counter electrodes in dye-sensitized solar cells. Solar Energy, 2018, 171, 122-129.	2.9	50
9034	Photoelectrochemical and photocatalytic activity of TiO <sub>2</sub> -WO <sub>3</sub> heterostructures boosted by mutual interaction. Materials Science in Semiconductor Processing, 2018, 88, 10-19.	1.9	45
9035	Effect of fluorine-doped TiO <sub>2</sub> photoanode on electron transport, recombination dynamics and improved DSSC efficiency. Solar Energy, 2018, 171, 914-928.	2.9	77
9036	Oriented Growth of Sc-Doped Ta <sub>3</sub> N <sub>5</sub> Nanorod Photoanode Achieving Low-Onset-Potential for Photoelectrochemical Water Oxidation. ACS Applied Energy Materials, 2018, 1, 4150-4157.	2.5	46
9037	Synthesis of Multichromophoric Asymmetrical Squaraine Sensitizer via C-H Arylation for See-through Photovoltaic. ACS Applied Energy Materials, 2018, 1, 4786-4793.	2.5	16
9038	Humidity induced inhibition and enhancement of spontaneous emission of dye molecules in a single PEG nanofiber. Optical Materials Express, 2018, 8, 568.	1.6	12
9039	Nonequilibrium Deposition in Epitaxial BiVO <sub>4</sub> Thin Film Photoanodes for Improving Solar Water Oxidation Performance. Chemistry of Materials, 2018, 30, 5673-5681.	3.2	20
9040	Electrochemically Synthesized Mesoscopic Nickel Oxide Films as Photocathodes for Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2018, 1, 4178-4185.	2.5	10
9041	Electrostatic Double-Layer Interaction at the Surface of Rough Cluster-Assembled Films: The Case of Nanostructured Zirconia. Langmuir, 2018, 34, 10230-10242.	1.6	12
9042	Design aspects of all atomic layer deposited TiO <sub>2</sub> -Fe <sub>2</sub> O <sub>3</sub> scaffold-absorber photoanodes for water splitting. Sustainable Energy and Fuels, 2018, 2, 2124-2130.	2.5	7
9043	Synthesis and characterization of naphthalimide-based dyes for dye sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 16565-16580.	1.1	6
9044	Augmenting the Photocurrent of CuWO <sub>4</sub> Photoanodes by Heat Treatment in the Nitrogen Atmosphere. Journal of Physical Chemistry C, 2018, 122, 19281-19288.	1.5	32
9045	Fluorinated Mesoporous Anatase TiO <sub>2</sub> Microspheres with High Surface and Enhanced Photocatalytic Activity for the Degradation of Methyl Orange. Kinetics and Catalysis, 2018, 59, 428-435.	0.3	4
9046	Capturing intensive and extensive DFT/TDDFT molecular properties with machine learning. European Physical Journal B, 2018, 91, 1.	0.6	48

#	ARTICLE	IF	CITATIONS
9047	Facile encapsulation of P25 (TiO <sub>2</sub> ) in spherical silica with hierarchical porosity with enhanced photocatalytic properties for gas-phase propene oxidation. <i>Applied Catalysis A: General</i> , 2018, 564, 123-132.	2.2	15
9048	Photonic crystals: role of architecture and disorder on spectral properties. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 370.	0.8	1
9049	Self-Assembled AgNP-Containing Nanocomposites Constructed by Electrospinning as Efficient Dye Photocatalyst Materials for Wastewater Treatment. <i>Nanomaterials</i> , 2018, 8, 35.	1.9	126
9050	Studies on CuI Dispersed Mixed (Ion+Electron) Conducting Composite Polymer Electrolyte System. <i>Journal of Electronic Materials</i> , 2018, 47, 6163-6170.	1.0	4
9051	Photoelectrochemical cell performances of Cu <sub>2</sub> ZnSnSe <sub>4</sub> thin films deposited on various conductive substrates. <i>Vacuum</i> , 2018, 156, 172-180.	1.6	15
9052	Photoinduced charge transfer by one and two-photon absorptions: physical mechanisms and applications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19720-19743.	1.3	27
9053	Designing effective Si/Ag interface <i>via</i> controlled chemical etching for photoelectrochemical CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21906-21912.	5.2	50
9054	Solar Cell with Photocatalyst Layers on Both the Anode and Cathode Providing an Electromotive Force of Two Volts per Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11892-11903.	3.2	5
9055	Synthesis of Nanoparticles. , 2018, , 392-429.		15
9056	Optimization of Ni <sup>2+</sup> /Ni <sup>3+</sup> ratio in reduced graphene oxide/nickel oxide nanohybrids for platinum free dye sensitized solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 123, 191-197.	1.9	12
9057	Low temperature-processed ZnO nanorods-TiO <sub>2</sub> nanoparticles composite as electron transporting layer for perovskite solar cells. <i>Thin Solid Films</i> , 2018, 662, 70-75.	0.8	30
9058	Morphology, Optical Properties and Photocatalytic Activity of Photo- and Plasma-Deposited Au and Au/Ag Core/Shell Nanoparticles on Titania Layers. <i>Nanomaterials</i> , 2018, 8, 502.	1.9	13
9059	Organic Nanostructures by Molecular Layer Epitaxy: A Tutorial. <i>Nanostructure Science and Technology</i> , 2018, , 93-116.	0.1	0
9060	Surface plasmon enhanced performance of TiO <sub>2</sub> photoanode for dye sensitized solar cell using silver nanoparticles. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4
9061	Size-controllable synthesis of NiCoSe <sub>2</sub> microspheres as a counter electrode for dye-sensitized solar cells. <i>RSC Advances</i> , 2018, 8, 26047-26055.	1.7	28
9062	Solar Cells Based on Sol-Gel Films. , 2018, , 2555-2572.		0
9063	Titania and Its Outstanding Properties: Insights from First Principles Calculations. , 2018, , 1-23.		1
9064	CuAgSe nanocrystals: colloidal synthesis, characterization and their thermoelectric performance. <i>Journal of Materials Science</i> , 2018, 53, 14998-15008.	1.7	8

#	ARTICLE	IF	CITATIONS
9065	Nanostructured Semiconductor Composites for Solar Cells. , 2018, , 353-412.		1
9066	Mechanism of Efficient Viologen Radical Generation by Ultrafast Electron Transfer from CdS Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 17136-17142.	1.5	34
9067	Tuning Band Alignments and Charge-Transport Properties through MoSe <sub>2</sub> Bridging between MoS <sub>2</sub> and Cadmium Sulfide for Enhanced Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 26153-26161.	4.0	43
9068	CuO and CuO/Graphene Nanostructured Thin Films as Counter Electrodes for Pt-Free Dye-Sensitized Solar Cells. Coatings, 2018, 8, 21.	1.2	34
9069	Investigation of Electrochemically Deposited and Chemically Reduced Platinum Nanostructured Thin Films as Counter Electrodes in Dye-Sensitized Solar Cells. Coatings, 2018, 8, 56.	1.2	3
9070	Recent theoretical progress in the organic/metal-organic sensitizers as the free dyes, dye/TiO <sub>2</sub> and dye/electrolyte systems; Structural modifications and solvent effects on their performance. Renewable and Sustainable Energy Reviews, 2018, 94, 609-655.	8.2	26
9071	Carbon based material included-shaped stabilized phase change materials for sunlight-driven energy conversion and storage: An extensive review. Solar Energy, 2018, 170, 1130-1161.	2.9	132
9073	â€œClickâ€•Methodology for the Functionalization of Water Oxidation Catalyst Iridium Oxide Nanoparticles with Hydrophobic Dyes for Artificial Photosynthetic Constructs. Methods in Molecular Biology, 2018, 1770, 319-334.	0.4	0
9074	Enhanced photoelectrochemical performance of hydrothermally grown tetravalent impurity (Si <sup>4+</sup> ) doped zinc oxide nanostructures for solar water splitting applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 14710-14722.	1.1	11
9075	Ultrasonicâ€•Assisted Wet Chemistry Synthesis of Ultrafine SnO <sub>2</sub> Nanoparticles for the Electronâ€•Transport Layer in Perovskite Solar Cells. ChemSusChem, 2018, 11, 3000-3006.	3.6	12
9076	Synthesis of Nanosize Particles in Thermal Plasmas. , 2018, , 2791-2828.		3
9077	Modular Construction of Photoanodes with Covalently Bonded Ru- and Ir-Polypyridyl Visible Light Chromophores. ACS Applied Materials & Interfaces, 2018, 10, 24533-24542.	4.0	15
9078	CdSe modified TiO <sub>2</sub> nanotube arrays with Ag nanoparticles as electron transfer channel and plasmonic photosensitizer for enhanced photoelectrochemical water splitting. Journal Physics D: Applied Physics, 2018, 51, 305106.	1.3	12
9079	A solar responsive photocatalytic fuel cell with the membrane electrode assembly design for simultaneous wastewater treatment and electricity generation. Journal of Hazardous Materials, 2018, 358, 346-354.	6.5	40
9080	Thermodynamic Barrier and Light Scattering Effects of Nanocube Assembled SrTiO <sub>3</sub> in Enhancing the Photovoltaic Properties of Zinc Oxide Based Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2018, 122, 16550-16560.	1.5	28
9081	The Electronic Structure and Optical Properties of Anatase TiO <sub>2</sub> with Rare Earth Metal Dopants from First-Principles Calculations. Materials, 2018, 11, 179.	1.3	26
9082	Recent Advances of Rare-Earth Ion Doped Luminescent Nanomaterials in Perovskite Solar Cells. Nanomaterials, 2018, 8, 43.	1.9	51
9083	Piezotronics in Photoâ€•Electrochemistry. Advanced Materials, 2018, 30, e1800154.	11.1	44

#	ARTICLE	IF	CITATIONS
9084	Structural evolution of titanium dioxide during reduction in high-pressure hydrogen. <i>Nature Materials</i> , 2018, 17, 923-928.	13.3	100
9085	Diffusion Characterization and Modelling of Mimosa pudica Extract towards the Production of Organic Solar Module. , 2018, , .		0
9086	A MoS <sub>2</sub> /sulfur-doped carbon sphere nanohybrid catalyst with high-efficiency electrocatalysis for flexible counter electrodes. <i>Journal of Alloys and Compounds</i> , 2018, 767, 848-855.	2.8	9
9087	Solution-Based, Template-Assisted Realization of Large-Scale Graphitic ZnO. <i>ACS Nano</i> , 2018, 12, 7554-7561.	7.3	23
9088	Synthesis, Spectroscopic, Intramolecular Energy Transfer and Electronic Structure Nonlinear Optical Properties of Novel Tetrahydropyrimidinone. <i>Oriental Journal of Chemistry</i> , 2018, 34, 1222-1232.	0.1	1
9089	Exploration of photoanode characteristics of a mixed ferroelectric ZnSnO <sub>3</sub> and semiconducting Zn <sub>2</sub> SnO <sub>4</sub> phase for photovoltaic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15106-15111.	1.1	6
9090	Effective Neural Photostimulation Using Indium-Based Type-II Quantum Dots. <i>ACS Nano</i> , 2018, 12, 8104-8114.	7.3	52
9091	Graphene-based neurotechnologies for advanced neural interfaces. <i>Current Opinion in Biomedical Engineering</i> , 2018, 6, 138-147.	1.8	35
9092	Anthracene-decorated TiO <sub>2</sub> thin films with the enhanced photoelectrochemical performance. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 624-630.	5.0	10
9093	Titanium dioxide nanostructures for photoelectrochemical applications. <i>Progress in Materials Science</i> , 2018, 98, 299-385.	16.0	205
9094	Efficient Way of Enhancing the Efficiency of a Quasi-Solid-State Dye-Sensitized Solar Cell by Harvesting the Unused Higher Energy Visible Light Using Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10914-10922.	3.2	10
9095	CdS/Au/Ti/Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.7</sub> Ti <sub>0.3</sub> O <sub>3</sub> photocatalysts and biphotocatalysts with ferroelectric polarization in single domain for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 248-254.	10.8	19
9096	D-Ā conjugated polymer dyes-covered TiO <sub>2</sub> compact layers for enhancing photovoltaic performance of dye-sensitized solar cells. <i>Synthetic Metals</i> , 2018, 244, 73-79.	2.1	9
9097	ZnO nanoflakes nanomaterials via hydrothermal process for dye sensitized solar cells. <i>Materials Letters</i> , 2018, 230, 92-95.	1.3	26
9098	Communication: Computing the Helmholtz capacitance of charged insulator-electrolyte interfaces from the supercell polarization. <i>Journal of Chemical Physics</i> , 2018, 149, 031103.	1.2	11
9099	Rational design of metal-free organic D-Ā dyes in dye-sensitized solar cells: Insight from density functional theory (DFT) and time-dependent DFT (TD-DFT) investigations. <i>Organic Electronics</i> , 2018, 59, 131-139.	1.4	28
9100	Operating temperature and temperature gradient effects on the photovoltaic properties of dye sensitized solar cells assembled with thermoelectric“photoelectric coaxial nanofibers. <i>Electrochimica Acta</i> , 2018, 279, 177-185.	2.6	6
9101	Influence of substrates and rutile seed layers on the assembly of hydrothermally grown rutile TiO <sub>2</sub> nanorod arrays. <i>Journal of Crystal Growth</i> , 2018, 494, 26-35.	0.7	11

#	ARTICLE	IF	CITATIONS
9102	Effect of MgO Surface Modification on the TiO <sub>2</sub> Nanowires Electrode for Self-Powered UV Photodetectors. ACS Sustainable Chemistry and Engineering, 2018, 6, 7265-7272.	3.2	43
9103	Engineering graphene and TMDs based van der Waals heterostructures for photovoltaic and photoelectrochemical solar energy conversion. Chemical Society Reviews, 2018, 47, 4981-5037.	18.7	344
9104	Single-step rapid aerosol synthesis of N-doped TiO <sub>2</sub> for enhanced visible light photocatalytic activity. Catalysis Communications, 2018, 113, 1-5.	1.6	52
9105	Photoanode for solar water oxidation based on titania and hematite films. Thin Solid Films, 2018, 658, 7-11.	0.8	3
9106	Transparent Surfaces Inspired by Nature. Advanced Optical Materials, 2018, 6, 1800091.	3.6	34
9108	Nanoforest-like CdS/TiO <sub>2</sub> heterostructure composites: Synthesis and photoelectrochemical application. Chinese Physics B, 2018, 27, 088802.	0.7	0
9109	Optical properties of TiO <sub>2</sub> thin films with crystal structure. Journal of Physics and Chemistry of Solids, 2018, 123, 266-270.	1.9	29
9110	Direct Z-scheme photocatalytic overall water splitting on 2D CdS/InSe heterostructures. Journal Physics D: Applied Physics, 2018, 51, 395501.	1.3	51
9111	Efficient Light Absorption by GaN Truncated Nanocones for High Performance Water Splitting Applications. ACS Applied Materials & Interfaces, 2018, 10, 28672-28678.	4.0	57
9112	Kinetics of anatase phase transformation of TiO <sub>2</sub> NPs synthesized using controlled hydrolysis technique. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	5
9113	Synthesis and characterization of carbene-pyridyl anchoring Ru(ii) dyes with various binding functionalities for photoelectrochemical cells. New Journal of Chemistry, 2018, 42, 15245-15252.	1.4	5
9114	First-principles study of efficient phenothiazine-based D-π-A organic sensitizers with various spacers for DSSCs. Journal of Computational Electronics, 2018, 17, 1410-1420.	1.3	35
9115	Black-ZrO <sub>2</sub> thin film produced by oxidation of Zr metal plate in air. Materials Letters, 2018, 230, 117-119.	1.3	10
9116	Combinatorial Synthesis and High-Throughput Characterization of Fe <sup>3+</sup> /O Thin-Film Materials Libraries for Solar Water Splitting. ACS Combinatorial Science, 2018, 20, 544-553.	3.8	27
9117	Anomalous enhancement of the absorption coefficient of GaAs in a p-n junction. Superlattices and Microstructures, 2018, 122, 80-84.	1.4	6
9118	Novel Cobalt Germanium Hydroxide for Electrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 30357-30366.	4.0	22
9119	Core-shell structured titanium dioxide nanomaterials for solar energy utilization. Chemical Society Reviews, 2018, 47, 8203-8237.	18.7	258
9120	Synthesis, Photophysical, Electrochemical Properties, DFT Studies and DSSC Performance of BODIPY Cored Triazole Bridged 3,6-Ditertiary Butyl Carbazole Decorated Dendrimers. ChemistrySelect, 2018, 3, 9222-9231.	0.7	9

#	ARTICLE	IF	CITATIONS
9121	Two-Step Solvent On-Film Annealing (2-SOFA) Method: Fabrication of Anisotropic Polymer Particles and Implications for Colloidal Self-Assembly. <i>ACS Applied Nano Materials</i> , 2018, 1, 4557-4565.	2.4	3
9122	Recent advances in syntheses, properties and applications of TiO <sub>2</sub> nanostructures. <i>RSC Advances</i> , 2018, 8, 30125-30147.	1.7	196
9123	Intrinsic photoelectrocatalytic activity in oriented, photonic TiO <sub>2</sub> nanotubes. <i>Materials Science in Semiconductor Processing</i> , 2018, 88, 186-191.	1.9	22
9124	A roadmap of strain in doped anatase TiO <sub>2</sub> . <i>Scientific Reports</i> , 2018, 8, 12790.	1.6	27
9125	Near-infrared Photoelectric Conversion by Singlet-Triplet Transition of the Iminopyridine Ru(II) Complex. <i>Chemistry Letters</i> , 2018, 47, 1311-1313.	0.7	2
9126	N-doped carbon dots@layer facilitated heterostructure of TiO <sub>2</sub> polymorphs for efficient photoelectrochemical water oxidation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 388-396.	2.7	14
9127	Atmospheric pressure dielectric barrier discharge synthesis of morphology-controllable TiO <sub>2</sub> films with enhanced photocatalytic activity. <i>Thin Solid Films</i> , 2018, 664, 90-99.	0.8	16
9128	Tuning the Intrinsic Properties of Carbon Nitride for High Quantum Yield Photocatalytic Hydrogen Production. <i>Advanced Science</i> , 2018, 5, 1800820.	5.6	92
9129	First-Principles Study of the Water Adsorption on Anatase(101) as a Function of the Coverage. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20736-20744.	1.5	25
9130	Activation of a highly oriented columnar structure of ZnFe <sub>2</sub> O <sub>4</sub> for photoelectrochemical water splitting: Orchestrated effects of two-step quenching and Sn <sup>4+</sup> diffusion. <i>Solar Energy Materials and Solar Cells</i> , 2018, 187, 207-218.	3.0	29
9131	Donor Effect on the Photoinduced Interfacial Charge Transfer Dynamics of Diketopyrrolopyrrole Dye Sensitizers Adsorbed on Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19359-19369.	1.5	7
9132	ZnO/TiO <sub>2</sub> nanocomposite photoanode as an effective UV-vis responsive dye sensitized solar cell. <i>Materials Research Express</i> , 2018, 5, 095905.	0.8	27
9133	Controlling the charge transfer and recombination dynamics in hollow ZnO QD based dye sensitized solar cell: An insight from ab initio simulation. <i>Chemical Physics Letters</i> , 2018, 709, 21-25.	1.2	10
9134	Nanostructured NiFe (oxy)hydroxide with easily oxidized Ni towards efficient oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16810-16817.	5.2	61
9135	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , 2018, 52, 360-368.	8.2	135
9136	Sensitization of p-GaP by Physisorbed Triarylmethane Dyes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20073-20082.	1.5	3
9137	Impact of offset energies on the yield of interfacial charge separation in molecular photocells. <i>Journal of Chemical Physics</i> , 2018, 149, 064102.	1.2	4
9138	Efficient Water Splitting Cascade Photoanodes with Ligand-Engineered MnO Cocatalysts. <i>Advanced Science</i> , 2018, 5, 1800727.	5.6	30



#	ARTICLE	IF	CITATIONS
9139	Artificial Photosynthesis Inspired by PSII: Water Splitting on Heterogeneous Photocatalysts. , 2018, , 327-333.		1
9140	Characterization of ZnO as substrate for DSSC. Physical Chemistry Chemical Physics, 2018, 20, 21910-21916.	1.3	6
9141	Photocharging and Band Gap Narrowing Effects on the Performance of Plasmonic Photoelectrodes in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 31374-31383.	4.0	20
9142	Construction of TiO <sub>2</sub> NP@TiO <sub>2</sub> NT double-layered structural photoanode to enhance photovoltaic performance of CdSe/CdS quantum dots sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 18059-18066.	1.1	5
9143	Potentiostatic electrodeposition under light irradiation for preparation of highly photoactive Cu <sub>2</sub> O for water splitting applications. Applied Surface Science, 2018, 461, 196-201.	3.1	16
9144	Enhancing extracellular electron transfer between Pseudomonas aeruginosa PAO1 and light driven semiconducting birnessite. Bioelectrochemistry, 2018, 123, 233-240.	2.4	29
9145	Theoretical probe on modified organic dyes for high-performance dye-sensitized solar cell. Current Applied Physics, 2018, 18, 1071-1079.	1.1	6
9146	Copper reduced defective TiO <sub>2</sub> nanoparticles with enhanced visible light photocatalytic activity. Journal of the American Ceramic Society, 2018, 101, 4857-4863.	1.9	7
9147	PTA-based ruthenium complexes as photosensitizers for dye-sensitized solar cells. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 557, 14-19.	2.3	4
9148	<i>Operando</i> deconvolution of photovoltaic and electrocatalytic performance in ALD TiO <sub>2</sub> protected water splitting photocathodes. Chemical Science, 2018, 9, 6062-6067.	3.7	22
9149	Au@TiO <sub>2</sub> Core-Shell Composites for the Photocatalytic Reduction of CO <sub>2</sub> . Chemistry - A European Journal, 2018, 24, 12416-12425.	1.7	51
9150	Effect of Cu <sup>2+</sup> ions doped on the photovoltaic features of CdSe quantum dot sensitized solar cells. Electrochimica Acta, 2018, 282, 16-23.	2.6	36
9151	Thermodynamic Limit of Solar to Fuel Conversion for Generalized Photovoltaic-Electrochemical Systems. IEEE Journal of Photovoltaics, 2018, 8, 1082-1089.	1.5	6
9152	Effect of Rare-Earth Metal Oxide Nanoparticles on the Conductivity of Nanocrystalline Titanium Dioxide: An Electrical and Electrochemical Approach. Journal of Physical Chemistry C, 2018, 122, 15090-15096.	1.5	14
9153	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. Chemistry of Materials, 2018, 30, 4383-4392.	3.2	42
9154	Influences of Silver and Zinc Contents in the Stannite Ag <sub>2</sub> ZnSn <sub>4</sub> Photoelectrodes on Their Photoelectrochemical Performances in the Saltwater Solution. ACS Applied Materials & Interfaces, 2018, 10, 22130-22142.	4.0	19
9155	Functionalized graphene. , 2018, , 545-584.		4
9156	Application of Graphene and Graphene Derivatives/Oxide Nanomaterials for Solar Cells. , 2018, , 395-437.		4

#	ARTICLE	IF	CITATIONS
9157	Improvement in the photovoltaic performance of a dye-sensitized solar cell by the addition of CeO <sub>2</sub> :Gd nanoparticles in the photoanode. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 65, 418-422.	2.9	9
9158	Theoretical design of porphyrin sensitizers with different acceptors for application in dye-sensitized solar cells. <i>RSC Advances</i> , 2018, 8, 19804-19810.	1.7	10
9159	A facile approach for preparing densely-packed individual p-NiO/n-Fe <sub>2</sub> O <sub>3</sub> heterojunction nanowires for photoelectrochemical water splitting. <i>Nanoscale</i> , 2018, 10, 13130-13139.	2.8	46
9160	A High Efficiency Si Photoanode Protected by Few-Layer MoSe <sub>2</sub> . <i>Solar Rrl</i> , 2018, 2, 1800113.	3.1	10
9161	WO <sub>3</sub> -TiO <sub>2</sub> ; Nanocomposite and its Applications: A Review. <i>Nano Hybrids and Composites</i> , 0, 20, 1-26.	0.8	12
9162	Electrochemically synthesized nanostructured iron carbide/carbon composite as a low-cost counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2018, 396, 213-219.	4.0	22
9163	Improving the Selectivity of Photocatalytic NO <sub>x</sub> Abatement through Improved O <sub>2</sub> Reduction Pathways Using Ti <sub>0.909</sub> W <sub>0.091</sub> O <sub>2</sub> N Semiconductor Nanoparticles: From Characterization to Photocatalytic Performance. <i>ACS Catalysis</i> , 2018, 8, 6927-6938.	5.5	20
9164	Modification of BiVO <sub>4</sub> /WO <sub>3</sub> composite photoelectrodes with Al <sub>2</sub> O <sub>3</sub> via chemical vapor deposition for highly efficient oxidative H <sub>2</sub> O <sub>2</sub> production from H <sub>2</sub> O. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1621-1629.	2.5	44
9165	Magnetoelectric μ-Fe <sub>2</sub> O <sub>3</sub> : DFT study of a potential candidate for electrode material in photoelectrochemical cells. <i>Journal of Chemical Physics</i> , 2018, 148, 214707.	1.2	10
9166	Solar Redox Flow Batteries: Mechanism, Design, and Measurement. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800031.	2.7	29
9167	Blocking the Formation of Zn <sup>2+</sup> /Dye Complexes in Dye-Sensitized Solar Cells by Inserting CdS Quantum Dots into Sandwich Layer. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 1224-1228.	0.1	3
9168	Role of carbon quantum dots in titania based photoelectrodes: Upconversion or others?. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 396-403.	5.0	12
9169	Rational Design of Ternary Composite Photoanode BiVO <sub>4</sub> /PW <sub>12</sub> /NiTsPc for Improved Photoelectrochemical Water Oxidation. <i>ChemElectroChem</i> , 2018, 5, 2534-2541.	1.7	16
9170	Modulating oxygen vacancies in Sn-doped hematite film grown on silicon microwires for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15593-15602.	5.2	53
9171	3.17 Photonic Energy Production. , 2018, , 707-754.		4
9172	Dye-Sensitized Solar Cells. , 2018, , 183-239.		6
9173	Up-conversion processes in Ln(III)-doped luminescent materials for photovoltaics and photocatalysis. , 2018, , 291-333.		1
9174	Improvement of the photocatalytic hydrogen production activity of g-C <sub>3</sub> N <sub>4</sub> by doping selenides as cocatalysts. <i>Materials Science in Semiconductor Processing</i> , 2018, 85, 76-82.	1.9	11

#	ARTICLE	IF	CITATIONS
9175	In-situ electrochemical activation designed hybrid electrocatalysts for water electrolysis. <i>Science Bulletin</i> , 2018, 63, 853-876.	4.3	107
9176	The computational study of bridge effect in D- $\pi$ -A photosensitive dyes, based on triphenylamine. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 161, 012021.	0.2	4
9177	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nano-networks as Efficient Photoanodes for Water Oxidation. <i>ChemSusChem</i> , 2018, 11, 2510-2516.	3.6	25
9178	Effects of Structural Modification on the Photoelectrical Properties of the D $\pi$ A $\pi$ C $\pi$ A $\pi$ E Type Dyes in DSSCs: A Computational Investigation. <i>ChemistrySelect</i> , 2018, 3, 6622-6637.	0.7	8
9179	Organic Nanostructures on Inorganic Ones: An Efficient Electrochromic Display by Design. <i>ACS Applied Nano Materials</i> , 2018, 1, 3715-3723.	2.4	37
9180	Organic chemistry at anodes and photoanodes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1905-1927.	2.5	76
9181	A comparative study on the oxidation of two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene structures in different environments. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12733-12743.	5.2	193
9182	Molecular design towards suppressing electron recombination and enhancing the light-absorbing ability of dyes for use in sensitized solar cells: a theoretical investigation. <i>New Journal of Chemistry</i> , 2018, 42, 12891-12899.	1.4	10
9183	Controlling the performance of photovoltaic cell based on nanostructured Cd <sub>1-x</sub> Zn <sub>x</sub> Te semiconductors. <i>Materials Research Innovations</i> , 2019, 23, 363-368.	1.0	2
9184	Nahinfrarotaktive Bleichalkogenid-Quantenpunkte: Herstellung, postsynthetischer Ligandenaustausch und Anwendungen in Solarzellen. <i>Angewandte Chemie</i> , 2019, 131, 5256-5279.	1.6	4
9185	Near-Infrared Active Lead Chalcogenide Quantum Dots: Preparation, Post-Synthesis Ligand Exchange, and Applications in Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5202-5224.	7.2	86
9187	Metal-Organic Frameworks for Energy. <i>Advanced Energy Materials</i> , 2019, 9, 1801307.	10.2	160
9188	Functional Nanoporous Titanium Dioxide for Separation Applications: Synthesis Routes and Properties to Performance Analysis. , 2019, , 151-186.		1
9189	The Effect of Incorporation of Multi-Walled Carbon Nanotube into Poly(Ethylene Oxide) Gel Electrolyte on the Photovoltaic Performance of Dye-Sensitized Solar Cell. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 97-104.	0.6	4
9190	Proton Transfers at a Dopamine-Functionalized TiO <sub>2</sub> Interface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7682-7695.	1.5	17
9191	Synthesis of ternary nickel cobalt phosphide nanowires through phosphorization for use in platinum-free dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2019, 771, 117-123.	2.8	15
9192	Enhanced photoelectrochemical oxidation of alkali water over cobalt phosphate (Co-Pi) catalyst-modified ZnLaTaON <sub>2</sub> photoanodes. <i>Ionics</i> , 2019, 25, 737-745.	1.2	9
9193	Realizing high performance solar water oxidation for Ti-doped hematite nanoarrays by synergistic decoration with ultrathin cobalt-iron phosphate nanolayers. <i>Chemical Engineering Journal</i> , 2019, 355, 49-57.	6.6	56

#	ARTICLE	IF	CITATIONS
9194	Effect of electron rich $\pi$ -linkers on the functional properties of dyes featuring dithieno[3,2-b:2',3'-d]pyrrole donor. <i>Dyes and Pigments</i> , 2019, 160, 614-623.	2.0	4
9195	Highly Sensitive and Multiplexed Protein Measurements. <i>Chemical Reviews</i> , 2019, 119, 293-321.	23.0	187
9196	Conformal BiVO <sub>4</sub> -Layer/WO <sub>3</sub> -Nanoplate-Array Heterojunction Photoanode Modified with Cobalt Phosphate Cocatalyst for Significantly Enhanced Photoelectrochemical Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5623-5631.	4.0	91
9197	Using Nanoparticles as a Bottom-up Approach to Increase Solar Cell Efficiency. <i>KONA Powder and Particle Journal</i> , 2019, 36, 72-87.	0.9	15
9198	An ultrasensitive photoelectrochemical platform for quantifying photoinduced electron-transfer properties of a single entity. <i>Nature Protocols</i> , 2019, 14, 2672-2690.	5.5	21
9199	Investigation of copper oxide thin films for photoelectrochemical splitting of water. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
9200	CoSe <sub>2</sub> /porous carbon shell composites as high-performance catalysts toward tri-iodide reduction in dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2550-2557.	3.0	16
9201	High performance anatase-TiO <sub>2</sub> thin film transistors with a two-step oxidized TiO <sub>2</sub> channel and plasma enhanced atomic layer-deposited ZrO <sub>2</sub> gate dielectric. <i>Applied Physics Express</i> , 2019, 12, 096502.	1.1	12
9202	Metal Decoration of TiO <sub>2</sub> Nanotubes for Photocatalytic and Water Splitting Applications. <i>Engineering Materials</i> , 2019, , 67-88.	0.3	0
9203	Photocatalytic Water Splitting Cycle in a Dye-Catalyst Supramolecular Complex: Ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21403-21414.	1.5	17
9204	Perpendicular Weak Permanent Magnetic Field Effect on the Electrodeposited Nanostructured ZnO Film and its Kinetic Corrosion Behavior. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 781-788.	0.3	1
9205	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. <i>Nature Communications</i> , 2019, 10, 3687.	5.8	300
9206	Unveiling the Hidden, Dark, and Short Life of a Vibronic State in a Boron Difluoride Formazanate Dye. <i>Angewandte Chemie</i> , 2019, 131, 15483-15487.	1.6	4
9207	Unveiling the Hidden, Dark, and Short Life of a Vibronic State in a Boron Difluoride Formazanate Dye. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15339-15343.	7.2	8
9208	A facile method to produce TiO <sub>2</sub> nanorods for high-efficiency dye solar cells. <i>Journal of Power Sources</i> , 2019, 438, 227012.	4.0	23
9209	Structural, optical, and XPS studies of doped yttria for superior water splitting under visible light illumination. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113335.	1.9	12
9210	Facile Two-Step Synthesis of Delafossite CuFeO <sub>2</sub> Photocathodes by Ultrasonic Spray Pyrolysis and Hybrid Microwave Annealing. <i>ChemPhotoChem</i> , 2019, 3, 1238-1245.	1.5	11
9211	Enhancing semiconductor photocatalysis with carbon nanostructures for water/air purification and self-cleaning applications. , 2019, , 139-172.		5

#	ARTICLE	IF	CITATIONS
9212	Dynamic Role of Cluster Cocatalysts on Molecular Photoanodes for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 12839-12848.	6.6	29
9214	Fabrication of spent FCC catalyst composites by loaded V <sub>2</sub> O <sub>5</sub> and TiO <sub>2</sub> and their comparative photocatalytic activities. <i>Scientific Reports</i> , 2019, 9, 11099.	1.6	12
9215	Exploring Bursteinâ€“Moss type effects in nickel doped hematite dendrite nanostructures for enhanced photo-electrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20463-20477.	1.3	77
9216	Effect of long alkyl chains of aniline donor on the photovoltaic performance of Dâ€“â€“ zinc porphyrin for dyeâ€“sensitized solar cells. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 1134-1140.	0.8	1
9217	Impact of surface curvature, grafting density and solvent type on the PEGylation of titanium dioxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 519-531.	5.0	32
9218	Design of SnO <sub>2</sub> @Air@TiO <sub>2</sub> hierarchical urchin-like double-hollow nanospheres for high performance dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 189, 412-420.	2.9	15
9219	Controllable Anomalous n- and p-Type Photothermoelectric Effects of Platinum Oxide and Tungsten Trioxide Layers with and without Chromic Reaction. <i>Chemistry of Materials</i> , 2019, 31, 6202-6209.	3.2	4
9220	Photostationary State in Photoelectrochemical Generation of Perchlorate: Relevance to Mars. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2171-2174.	1.2	4
9221	High Quantum Efficiency Achieved on BiVO <sub>4</sub> Photoanode for Efficient Solar Water Oxidation. <i>Solar Rrl</i> , 2019, 3, 1900301.	3.1	13
9222	Enhanced Photocatalytic Activity by Tuning of Structural and Optoelectrical Properties of Cr(III) Incorporated TiO <sub>2</sub> Nanoparticles. <i>Journal of Electronic Materials</i> , 2019, 48, 7203-7215.	1.0	16
9223	Improving the Water Oxidation Efficiency with a Light-Induced Electric Field in Nanograting Photoanodes. <i>Nano Letters</i> , 2019, 19, 6133-6139.	4.5	16
9224	Vanadium doped few-layer ultrathin MoS <sub>2</sub> nanosheets on reduced graphene oxide for high-performance hydrogen evolution reaction. <i>RSC Advances</i> , 2019, 9, 22232-22239.	1.7	41
9225	Amorphous multinary phyllosilicate catalysts for electrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18380-18387.	5.2	21
9226	Yttrium-Doped ZnO Nanorod Arrays for Increased Charge Mobility and Carrier Density for Enhanced Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18187-18197.	1.5	31
9227	Optimal methodology for explicit solvation prediction of band edges of transition metal oxide photocatalysts. <i>Communications Chemistry</i> , 2019, 2, .	2.0	28
9228	Efficient and Highly Transparent Ultraâ€“Thin Nickelâ€“Iron Oxyâ€“hydroxide Catalyst for Oxygen Evolution Prepared by Successive Ionic Layer Adsorption and Reaction. <i>ChemPhotoChem</i> , 2019, 3, 1050-1054.	1.5	6
9229	Exploration of optoelectronic and photosensitization properties of triphenylamine-based organic dye on TiO <sub>2</sub> surfaces. <i>Journal of Computational Electronics</i> , 2019, 18, 1119-1127.	1.3	12
9230	Design of Morphology-Controllable ZnO Nanorods/Nanoparticles Composite for Enhanced Performance of Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2019, 9, 931.	1.9	12

#	ARTICLE	IF	CITATIONS
9231	Plasmonic Au nanoparticles supported on both sides of TiO <sub>2</sub> hollow spheres for maximising photocatalytic activity under visible light. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 665-671.	2.3	14
9232	Electronic, magnetic and optical properties of C, N-doped TiO <sub>2</sub> anatase: A hybrid density functional study. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
9233	Ag <sup>+</sup> ion doped on the CdSe quantum dots for quantum-dot-sensitized solar cellsâ€™ application. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	28
9234	Donor substituted triphenylamine based sensitizers for dye sensitized solar cells (DSSC) application - DFT and TD-DFT approach. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
9235	High photoelectrochemical activity of CuO nanoflakes grown on Cu foil. <i>Electrochimica Acta</i> , 2019, 319, 390-399.	2.6	32
9236	An Insulating Al <sub>2</sub> O <sub>3</sub> Overlayer Prevents Lateral Hole Hopping Across Dye-Sensitized TiO <sub>2</sub> Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27453-27463.	4.0	13
9237	A Long Lifetime Aqueous Organic Solar Flow Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1900918.	10.2	31
9238	Unraveling the controversy over a catalytic reaction mechanism using a new theoretical methodology: One probe and non-equilibrium surface Green's function. <i>Nano Energy</i> , 2019, 63, 103863.	8.2	7
9239	Synthesis of TiO <sub>2</sub> nanoparticles at low hydrothermal temperature and its performance for DSSC sensitized using natural dye extracted from <i>Melastoma malabathricum</i> L. seeds. <i>International Journal of Energy Research</i> , 2019, 43, 5959-5968.	2.2	13
9240	CdS nanocrystallites sensitized ZnO nanorods with plasmon enhanced photoelectrochemical performance. <i>Chinese Chemical Letters</i> , 2019, 30, 2363-2367.	4.8	27
9241	Integration of photoelectrochemical devices and luminescent solar concentrators based on giant quantum dots for highly stable hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18529-18537.	5.2	25
9242	TiO <sub>2</sub> Nanomaterials for Enhanced Photocatalysis. <i>ACS Symposium Series</i> , 2019, , 135-165.	0.5	4
9243	A comparative theoretical study on the optoelectronic and nonlinear optical properties of [Pt(bpy)(qdt)] derivatives with electron-donating and -withdrawing anchors. <i>New Journal of Chemistry</i> , 2019, 43, 12865-12873.	1.4	3
9244	The Photoelectrochemical Response of a $\beta$ -Carotene Coated Hematite Nanoarchitecture Biophotocathode with Cauliflower and Nano Octahedron Types Morphologies. <i>Journal of the Electrochemical Society</i> , 2019, 166, H541-H548.	1.3	7
9245	Heterogeneous electron transporting layer for reproducible, efficient and stable planar perovskite solar cells. <i>Journal of Power Sources</i> , 2019, 437, 226907.	4.0	7
9246	Highly Efficient and Selective Oxidation of Ethanol to Acetaldehyde by a Hybrid Photocatalyst Consisting of SnO <sub>2</sub> Nanorod and Rutile TiO <sub>2</sub> with Heteroepitaxial Junction. <i>ChemPhysChem</i> , 2019, 20, 2155-2161.	1.0	26
9247	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , 2019, 119, 9221-9259.	23.0	158
9248	Enhanced photocatalytic and photoelectrochemical performance of g-C <sub>3</sub> N <sub>4</sub> /BiVO <sub>4</sub> heterojunction: A combined experimental and theoretical study. <i>AIP Advances</i> , 2019, 9, .	0.6	19

#	ARTICLE	IF	CITATIONS
9249	The pulsed laser-induced Schottky junction via in-situ forming Cd clusters on CdS surfaces toward efficient visible light-driven photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117967.	10.8	148
9250	Cu <sub>2</sub> O as an emerging photocathode for solar water splitting - A status review. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21351-21378.	3.8	155
9251	Synthesis and properties of polyurea/malonamide dendritic co-adsorbents for dye-sensitized solar cells. <i>Polymer</i> , 2019, 179, 121673.	1.8	6
9252	Polyphosphide Precursor for Low-Temperature Solution-Processed Fibrous Phosphorus Thin Films. <i>Chemistry of Materials</i> , 2019, 31, 5909-5918.	3.2	18
9253	Surface-Plasmon-Resonance-Induced Photocatalysis by Core-Shell SiO <sub>2</sub> @Ag NCs@Ag <sub>3</sub> PO <sub>4</sub> toward Water-Splitting and Phenol Oxidation Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 9643-9654.	1.9	48
9254	Titanium carbide sheet: metallic 2D structure with intrinsic and high catalytic activity for the hydrogen evolution reaction. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 355302.	0.7	5
9255	Simple N-hexylcarbazole based metal free sensitizer for dye sensitized solar cells (DSSC) application – A quantum chemical approach. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
9256	Efficient Low-Cost Materials for Solar Energy Applications: Roles of Nanotechnology. , 2019, , .		2
9257	Enhanced intramolecular charge transfer of organic dyes containing hydantoin donor: A DFT study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 383, 111979.	2.0	11
9258	A Clean Process to Prepare High-Quality Acid-Soluble Titanium Slag from Titanium Middling Ore. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 460.	0.8	6
9259	Minimum and well-dispersed platinum nanoparticles on 3D porous nickel for highly efficient electrocatalytic hydrogen evolution reaction enabled by atomic layer deposition. <i>Applied Surface Science</i> , 2019, 494, 1091-1099.	3.1	20
9260	Investigations into structure-property relationships of novel Ru(II) dyes with N,N'-Diethyl group in ancillary ligand for dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2019, 171, 107754.	2.0	8
9261	Attuning the Electronic Properties of Two-Dimensional Co-Fe-O for Accelerating Water Electrolysis and Photolysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30682-30693.	4.0	16
9262	The structural, electronic and optical properties of novel GaP/ZnS/AlP multilayer heterostructure: first-principles study. <i>Materials Research Express</i> , 2019, 6, 095912.	0.8	5
9263	Potentiodynamic Electrodeposition of CoSe <sub>2</sub> Films and Their Excellent Electrocatalytic Activity as Counter Electrodes for Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, H473-H479.	1.3	3
9264	Unassisted water splitting with 9.3% efficiency by a single quantum nanostructure photoelectrode. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19650-19657.	3.8	13
9265	Microwave assisted synthesis of polythiophene-molybdenum sulfide counter electrode in dye sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13655-13663.	1.1	14
9266	Ultrathin Silicon Oxide Film-Induced Enhancement of Charge Separation and Transport of Nanostructured Titanium(IV) Oxide Photoelectrode. <i>ChemPhysChem</i> , 2019, 20, 2054-2059.	1.0	6

#	ARTICLE	IF	CITATIONS
9267	Synthesis of Tri-functional Core-shell CuO@carbon Quantum Dots@carbon Hollow Nanospheres Heterostructure for Non-enzymatic H <sub>2</sub> O <sub>2</sub> Sensing and Overall Water Splitting Applications. <i>Electroanalysis</i> , 2019, 31, 2120-2129.	1.5	6
9268	Seebeck-voltage-triggered self-biased photoelectrochemical water splitting using HfOx/SiOx bi-layer protected Si photocathodes. <i>Scientific Reports</i> , 2019, 9, 9132.	1.6	14
9269	Heterodimetallic Ferrocenyl Dithiophosphonate Complexes of Nickel(II), Zinc(II) and Cadmium(II) as Sensitizers for TiO <sub>2</sub> -Based Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2019, 4, 7416-7424.	0.7	16
9270	Surfactant-Free Synthesis of Single-Crystalline Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Nanosheets with Excellent Visible-Light Photocatalytic Activity. <i>Catalysis Surveys From Asia</i> , 2019, 23, 322-331.	1.0	9
9271	Facile fabrication of Al <sub>2</sub> O <sub>3</sub> -doped Co <sub>3</sub> O <sub>4</sub> /graphene nanocomposites for high performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2019, 493, 55-62.	3.1	38
9272	Metal-free organic dyes with di(1-benzothieno)[3,2-b:2',3'-d]pyrrole as an auxiliary donor for efficient dye-sensitized solar cells: Effect of the molecular engineering on the photovoltaic performance. <i>Dyes and Pigments</i> , 2019, 171, 107676.	2.0	18
9273	Hydrothermally synthesized Iron Phosphate Hydroxide thin film electrocatalyst for electrochemical water splitting. <i>Electrochimica Acta</i> , 2019, 319, 118-128.	2.6	19
9274	P-doped In <sub>2</sub> S <sub>3</sub> nanosheets coupled with InPO <sub>x</sub> overlayer: Charge-transfer pathways and highly enhanced photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2019, 375, 389-398.	3.1	17
9275	Facile non-pressurized synthesis of nanowire-constructed hierarchical TiO <sub>2</sub> nanomaterials with improved dye sensitized solar cell performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14207-14213.	1.1	1
9276	An effective strategy to promote hematite photoanode at low voltage bias via Zr <sup>4+</sup> /Al <sup>3+</sup> codoping and CoO <sub>x</sub> OER co-catalyst. <i>Electrochimica Acta</i> , 2019, 319, 444-455.	2.6	17
9277	Theoretical design of porphyrin dyes with electron-deficit heterocycles towards near-IR light sensitization in dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 188, 742-749.	2.9	9
9278	Cellulose Nanocrystal Aerogels as Electrolyte Scaffolds for Glass and Plastic Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 5635-5642.	2.5	29
9279	Interfacial oxygen vacancies yielding long-lived holes in hematite mesocrystal-based photoanodes. <i>Nature Communications</i> , 2019, 10, 4832.	5.8	112
9280	Investigating the prospect of micro-energy generation in S.Anisatum Dye-sensitized solar cells (DSCs). <i>Journal of Physics: Conference Series</i> , 2019, 1299, 012028.	0.3	1
9281	MNPs@AMTT/Cu(II): a heterogeneous and reusable magnetic nanocatalyst for the synthesis 2-amino-3-cyanopyridine and 1,1'-bis (substituted-benzylidene) cycloalkanone derivatives under solvent-free conditions. <i>Materials Research Express</i> , 2019, 6, 105086.	0.8	3
9282	Synergetic effects of the interfacial dyadic structure on the interfacial charge transfer between surface-complex and TiO <sub>2</sub> . <i>Applied Surface Science</i> , 2019, 496, 143711.	3.1	7
9283	Theoretical Design of High-Performance Boron Dipyrromethenes Dyes by Introducing Heterocyclics to Tune Photoelectric Properties. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26047-26056.	1.5	14
9284	Electrode Materials Engineering in Electrocatalytic CO <sub>2</sub> Reduction: Energy Input and Conversion Efficiency. <i>Advanced Materials</i> , 2020, 32, e1903796.	11.1	87



#	ARTICLE	IF	CITATIONS
9285	Oxysulfide Semiconductors for Photocatalytic Overall Water Splitting with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15580-15582.	7.2	83
9286	Irradiation Direction-Dependent Surface Charge Recombination in Hematite Thin-Film Oxygen Evolution Photoanodes. <i>ChemCatChem</i> , 2019, 11, 6332-6338.	1.8	4
9287	Directly Photoexcited Oxides for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2019, 12, 4337-4352.	3.6	15
9288	In Situ Growth of Nanostructured BiVO <sub>4</sub> –Bi <sub>2</sub> O <sub>3</sub> Mixed-Phase via Nonequilibrium Deposition Involving Metal Exsolution for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44069-44076.	4.0	18
9289	Mechanism of H <sub>2</sub> generation on the unsaturated Mo and S of Mo-Edge in 2H-MoS <sub>2</sub> from density functional theory. <i>Computational and Theoretical Chemistry</i> , 2019, 1168, 112623.	1.1	4
9290	Platinum-free metal sulfide counter electrodes for DSSC applications: Structural, electrochemical and power conversion efficiency analyses. <i>Solar Energy</i> , 2019, 193, 507-518.	2.9	68
9291	Effect of multiple electron-withdrawing substituents on photovoltaic properties of quinoxaline-based polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 685, 14-21.	0.4	2
9292	Enhanced photovoltaic performance of quinoxaline-based small molecules through incorporating trifluoromethyl substituents. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 685, 22-28.	0.4	1
9293	High electrocatalytic performance of bimetallic sulfides dodecahedral nanocages (Co <sub>x</sub> M <sub>1-x</sub> ) <sub>9</sub> S <sub>8</sub> /M/Ni–C (M=Ni, Cu) for triiodide reduction reaction and oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019, 324, 134888.	2.6	15
9294	Copper Tungstate (CuWO <sub>4</sub> ) Nanoflakes Coupled with Cobalt Phosphate (Co-Pi) for Effective Photoelectrochemical Water Splitting. <i>International Journal of Electrochemical Science</i> , 2019, , 9017-9029.	0.5	7
9295	New dyes for DSSC containing thienylen-phenylene: a theoretical investigation. <i>Materials Today: Proceedings</i> , 2019, 13, 569-578.	0.9	4
9296	Synthesis of RuNi alloy nanostructures composed of multilayered nanosheets for highly efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2019, 66, 104173.	8.2	116
9297	High-Throughput Screening and Surface Interrogation Studies of Au-Modified Hematite Photoanodes by Scanning Electrochemical Microscopy for Solar Water Splitting. <i>ACS Omega</i> , 2019, 4, 17257-17268.	1.6	13
9298	Plasmonic mesoporous core-shell Ag-Au@TiO <sub>2</sub> photoanodes for efficient light harvesting in dye sensitized solar cells. <i>Solar Energy</i> , 2019, 193, 820-827.	2.9	22
9299	A Non-Van der Waals two dimensional material from microwave synthesized Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystal agglomerates. <i>Materials Research Express</i> , 2019, 6, 1150a3.	0.8	6
9300	Surface Ligands Stabilized Lead Halide Perovskite Quantum Dot Photocatalyst for Visible Light-Driven Hydrogen Generation. <i>Advanced Functional Materials</i> , 2019, 29, 1905683.	7.8	85
9301	Cu <sub>2</sub> O photocathodes for unassisted solar water-splitting devices enabled by noble-metal cocatalysts simultaneously as hydrogen evolution catalysts and protection layers. <i>Nanotechnology</i> , 2019, 30, 495407.	1.3	13
9302	Gold-Sensitized Silicon/ZnO Core/Shell Nanowire Array for Solar Water Splitting. <i>Frontiers in Chemistry</i> , 2019, 7, 206.	1.8	16

#	ARTICLE	IF	CITATIONS
9304	Effect of Bulk Hydrogen on the Photocatalytic Activity of Semiconducting Ta <sub>3</sub> N <sub>5</sub> : A Hybrid-DFT Viewpoint. Journal of Physical Chemistry C, 2019, 123, 28763-28768.	1.5	7
9305	An electron donating controlling strategy for design several dithieno[3,2-b:2',3'-d]pyrrole based dyes with D <sup>+</sup> A structure in dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2019, 30, 20525-20536.	1.1	6
9306	Polyoxometalate-based materials for sustainable and clean energy conversion and storage. EnergyChem, 2019, 1, 100021.	10.1	183
9307	Effect of Liquid Phase Plasma Irradiation on Production by Photocatalytic Water Splitting over SrTiO <sub>3</sub> Photocatalysts. ChemCatChem, 2019, 11, 6451-6459.	1.8	9
9308	Sanitation and waste disposal systems. , 2019, , 25-40.		0
9309	Descriptors to Predict Dye-Sensitized Semiconductor Based Photocatalyst for Hydrogen Evolution Reaction. ChemCatChem, 2019, 11, 6460-6466.	1.8	1
9310	Photothermal-responsive tungsten bronze/recycled cellulose triacetate porous fiber membranes for efficient light-driven interfacial water evaporation. Solar Energy, 2019, 194, 391-399.	2.9	40
9311	Electrochemical Deposition of Conformal Semiconductor Layers in Nanoporous Oxides for Sensitized Photoelectrodes. ACS Omega, 2019, 4, 19772-19776.	1.6	3
9312	Emerging contaminants remediation by heterogeneous photocatalysis. , 2019, , 245-275.		9
9313	Cobalt-Phosphate Catalysts with Reduced Bivalent Co-Ion States and Doped Nitrogen Atoms Playing as Active Sites for Facile Adsorption, Fast Charge Transfer, and Robust Stability in Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 44366-44374.	4.0	13
9314	Perspectives on the Development of Oxide-Based Photocathodes for Solar Fuel Production. Journal of the American Chemical Society, 2019, 141, 18358-18369.	6.6	68
9315	The effect of TiCl <sub>4</sub> treatment on the performance of dye-sensitized solar cells. Journal of Chemical Physics, 2019, 151, 164704.	1.2	13
9316	Achieving Controllable CoTiO <sub>3</sub> -Encapsulated TiO <sub>2</sub> Heterostructures for Enhanced Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2019, 2, 8229-8235.	2.5	27
9317	Machine Learning for Accelerated Discovery of Solar Photocatalysts. ACS Catalysis, 2019, 9, 11774-11787.	5.5	100
9318	Glycerol-Mediated Facile Synthesis of Colored Titania Nanoparticles for Visible Light Photodegradation of Phenolic Compounds. Nanomaterials, 2019, 9, 1586.	1.9	55
9319	Anionic Dopant Delocalization through p-Band Modulation to Endow Metal Oxides with Enhanced Visible-Light Photoactivity. Angewandte Chemie, 2019, 131, 16813-16820.	1.6	7
9320	Preparation, Characterization and Photosensitizing Activities of Homoleptic Cu(II) Dithiocarbamates in TiO <sub>2</sub> -Based DSSC. ChemistrySelect, 2019, 4, 11140-11148.	0.7	5
9321	Excited states in the conduction band and long-lifetime hot electrons in TiO <sub>2</sub> nanoparticles observed with photoemission electron microscopy. AIP Advances, 2019, 9, 085321.	0.6	6

#	ARTICLE	IF	CITATIONS
9322	Sn Doping into Hematite Nanorods for High-Performance Photoelectrochemical Water Splitting. <i>Journal of the Electrochemical Society</i> , 2019, 166, H743-H749.	1.3	14
9323	Ultrathin Cobalt-Manganese Nanosheets: An Efficient Platform for Enhanced Photoelectrochemical Water Oxidation with Electron-Donating Effect. <i>Advanced Functional Materials</i> , 2019, 29, 1904622.	7.8	49
9324	Anionic Dopant Delocalization through $\pi$ -Band Modulation to Endow Metal Oxides with Enhanced Visible-Light Photoactivity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16660-16667.	7.2	20
9325	Cu 0.78 Sn 0.12 Mn 0.1 O <sub>x</sub> Thin Films as a Photocatalytic Material under Visible Light. <i>ChemistrySelect</i> , 2019, 4, 9844-9848.	0.7	0
9326	Comparison of Water Sampling between Environmental DNA Metabarcoding and Conventional Microscopic Identification: A Case Study in Gwangyang Bay, South Korea. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3272.	1.3	25
9327	Series of Highly Luminescent Macrocyclic Sm(III) Complexes: Functional Group Modifications Together with Luminescence Performances in Solid-State, Solution, and Doped Poly(methylmethacrylate) Film. <i>ACS Omega</i> , 2019, 4, 18334-18341.	1.6	17
9328	Synthesis and characterization of NiO nanoparticles by chemical as well as green routes and their comparisons with respect to cytotoxic effect and toxicity studies in microbial and MCF-7 cancer cell models. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	62
9329	Perovskite Structure Associated with Precious Metals: Influence on Heterogenous Catalytic Process. <i>Catalysts</i> , 2019, 9, 721.	1.6	27
9330	Designing of Functionalized MWCNTs/Anodized Stainless Steel Heterostructure Electrode for Anodic Oxidation of Low Concentration As(III) in Drinking Water. <i>ChemistrySelect</i> , 2019, 4, 9367-9375.	0.7	7
9331	Characterization of MIS photoanode with a thin SiO <sub>2</sub> layer for photoelectrochemical water splitting. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
9332	Photooxidation of Water on Pristine, S- and N-Doped TiO <sub>2</sub> (001) Nanotube Surfaces: A DFT + <i>U</i> Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22691-22698.	1.5	15
9333	Preparation of CdS-TiO <sub>2</sub> -Based Palladium Heterogeneous Nanocatalyst by Solvothermal Route and Its Catalytic Activity for Reduction of Nitroaromatic Compounds. <i>ACS Omega</i> , 2019, 4, 14937-14946.	1.6	18
9334	Comparative Study of the Different Anchoring of Organometallic Dyes on Ultrathin Alumina. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22250-22260.	1.5	6
9335	Synthesis of Ag <sub>2</sub> O decorated hierarchical TiO <sub>2</sub> templated by double comb copolymers for efficient solar water splitting. <i>Chemical Communications</i> , 2019, 55, 11013-11016.	2.2	12
9336	Study of structural and optical properties of Fe(III)-doped TiO <sub>2</sub> prepared by sol-gel method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 299, 012066.	0.2	4
9337	Photodegradation of methylene blue over a new down-shifting luminescence catalyst. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	4
9338	Platinum and Transparent Conducting Oxide Free Graphene-CNT Composite Based Counter-Electrodes for Dye-Sensitized Solar Cells. <i>Surface Engineering and Applied Electrochemistry</i> , 2019, 55, 472-480.	0.3	3
9339	Temperature Sensor Using Two Thermoelectric Liquid Electrolytes in Microfluidic Channels. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
9340	A general strategy for the preparation of semiconductor-oxide-nanowire photoanodes. <i>Journal of Power Sources</i> , 2019, 438, 226952.	4.0	4
9341	Adsorption and Reaction of Methanol on Anatase TiO <sub>2</sub> (101) Single Crystals and Faceted Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24133-24145.	1.5	14
9342	Impedance Spectroscopy Modeling of Nickel–Molybdenum Alloys on Porous and Flat Substrates for Applications in Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23890-23897.	1.5	31
9343	AAO-Assisted Synthesis of Aligned CuO Nanorod Arrays by Electrochemical Deposition for Self-powered NIR Photodetection. <i>Journal of Electronic Materials</i> , 2019, 48, 7465-7473.	1.0	3
9344	Enhanced Photocatalytic Activity of Aerogel Composed of Crooked Carbon Nitride Nanolayers with Nitrogen Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34922-34929.	4.0	30
9345	Highly ordered combined structure of anodic TiO <sub>2</sub> nanotubes and TiO <sub>2</sub> nanoparticles prepared by a novel route for dye-sensitized solar cells. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 1231-1240.	2.4	6
9346	Stability of non-metal dopants to tune the photo-absorption of TiO <sub>2</sub> at realistic temperatures and oxygen partial pressures: A hybrid DFT study. <i>Scientific Reports</i> , 2019, 9, 11427.	1.6	17
9347	Self-improvement of solar water oxidation for the continuously-irradiated hematite photoanode. <i>Dalton Transactions</i> , 2019, 48, 15151-15159.	1.6	15
9348	Electrical Power Generation from Wet Textile Mediated by Spontaneous Nanoscale Evaporation. <i>Nano Letters</i> , 2019, 19, 7191-7200.	4.5	66
9349	Ultrathin WO <sub>3</sub> Nanosheets Converted from Metallic WS <sub>2</sub> Sheets by Spontaneous Formation and Deposition of PdO Nanoclusters for Visible Light-Driven C–C Coupling Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36960-36969.	4.0	29
9350	Precipitating Metal Nitrate Deposition of Amorphous Metal Oxyhydroxide Electrodes Containing Ni, Fe, and Co for Electrocatalytic Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 9650-9662.	5.5	43
9351	BiVO <sub>4</sub> Surface Reduction upon Water Exposure. <i>ACS Energy Letters</i> , 2019, 4, 2522-2528.	8.8	19
9352	Stimulation of the photoluminescent properties of electrospinning TiO <sub>2</sub> nanofibres induced by structural modifications resulting from annealing at high temperatures. <i>Journal of Luminescence</i> , 2019, 215, 116700.	1.5	5
9353	The Self-Passivation Mechanism in Degradation of BiVO <sub>4</sub> Photoanode. <i>IScience</i> , 2019, 19, 976-985.	1.9	40
9354	Modification of TiO <sub>2</sub> Nanoparticles with Organodiboron Molecules Inducing Stable Surface Ti <sup>3+</sup> Complex. <i>IScience</i> , 2019, 20, 195-204.	1.9	24
9355	Photoelectrochemical Driving and Simultaneous Synthesis of 3-pyridinecarboxylic Acid and Hydrogen in WO <sub>3</sub> Photoanode-Based Cell. <i>Journal of the Electrochemical Society</i> , 2019, 166, H662-H668.	1.3	7
9356	Editors' Choice—A Monolithic Photoelectrochemical Device Evolving Hydrogen in Pure Water. <i>Journal of the Electrochemical Society</i> , 2019, 166, H656-H661.	1.3	16
9357	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. <i>Nano Today</i> , 2019, 28, 100763.	6.2	67

#	ARTICLE	IF	CITATIONS
9358	Photoinduced Charge Separation in Retinoic Acid on TiO <sub>2</sub> : Comparison of Three Anchoring Modes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24634-24642.	1.5	8
9359	Diffusion Characterization and Modelling of <i>Mimosa pudica</i> Extract towards the Production of Organic Solar Module. , 2019, , .		0
9360	A review on tungsten-trioxide-based photoanodes for water oxidation. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1408-1420.	6.9	41
9361	Affinity-Based Detection of Biomolecules Using Photo-Electrochemical Readout. <i>Frontiers in Chemistry</i> , 2019, 7, 617.	1.8	39
9362	NiFe-layered double hydroxide decorated BiVO <sub>4</sub> photoanode based bi-functional solar-light driven dual-photoelectrode photocatalytic fuel cell. <i>Applied Energy</i> , 2019, 255, 113770.	5.1	36
9363	Stilbene Based Organic Dye as Efficient Sensitizer for NLO and Dye-Sensitized Solar Cells: A First Principle Study. <i>Materials Today: Proceedings</i> , 2019, 9, 156-163.	0.9	3
9364	Conversion of Biomass Waste into High Performance Supercapacitor Electrodes for Real-Time Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17175-17185.	3.2	153
9365	Band gap determination in multi-band-gap CuFeO <sub>2</sub> delafossite epitaxial thin film by photoconductivity. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	10
9366	Effect of imidazole based polymer blend electrolytes for dye-sensitized solar cells in energy harvesting window glass applications. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2807-2814.	1.7	11
9367	Sandwich-Nanostructured n-Cu <sub>2</sub> O/AuAg/p-Cu <sub>2</sub> O Photocathode with Highly Positive Onset Potential for Improved Water Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38625-38632.	4.0	30
9368	Enhanced sensing performance of TiO <sub>2</sub> /Ag <sub>2</sub> V <sub>4</sub> O <sub>11</sub> nanoheterostructures to ethanol gas. <i>Journal of Alloys and Compounds</i> , 2019, 811, 151958.	2.8	13
9369	Two-Dimensional CuTe <sub>2</sub> X (X = Cl, Br, and I): Potential Photocatalysts for Water Splitting under the Visible/Infrared Light. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25543-25548.	1.5	6
9370	Perovskite Solar Fibers: Current Status, Issues and Challenges. <i>Advanced Fiber Materials</i> , 2019, 1, 101-125.	7.9	42
9371	The value of enzymes in solar fuels research – efficient electrocatalysts through evolution. <i>Chemical Society Reviews</i> , 2019, 48, 2039-2052.	18.7	62
9372	Progress on ternary oxide-based photoanodes for use in photoelectrochemical cells for solar water splitting. <i>Chemical Society Reviews</i> , 2019, 48, 2126-2157.	18.7	296
9373	Electro-reduction of hematite using water as the redox mediator. <i>Green Chemistry</i> , 2019, 21, 198-204.	4.6	14
9374	Microfluidic Schottky-junction photovoltaics with superior efficiency stimulated by plasmonic nanoparticles and streaming potential. <i>Nanoscale Advances</i> , 2019, 1, 1155-1164.	2.2	6
9375	Direct Z scheme-fashioned photoanode systems consisting of Fe <sub>2</sub> O <sub>3</sub> nanorod arrays and underlying thin Sb <sub>2</sub> Se <sub>3</sub> layers toward enhanced photoelectrochemical water splitting performance. <i>Nanoscale</i> , 2019, 11, 109-114.	2.8	18

#	ARTICLE	IF	CITATIONS
9376	Interface engineering for light-driven water oxidation: unravelling the passivating and catalytic mechanism in BiVO <sub>4</sub> overlayers. <i>Sustainable Energy and Fuels</i> , 2019, 3, 127-135.	2.5	28
9377	Electronic structure of aqueous-phase anatase titanium dioxide nanoparticles probed by liquid jet photoelectron spectroscopy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6665-6675.	5.2	22
9378	The Role of Surface Texture on the Photocatalytic H <sub>2</sub> Production on TiO <sub>2</sub> . <i>Catalysts</i> , 2019, 9, 32.	1.6	28
9379	Rutile TiO <sub>2</sub> nanorod arrays incorporated with $\gamma$ -alumina for high efficiency dye sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	4
9380	Regulating the Silicon/Hematite Microwire Photoanode by the Conformal Al <sub>2</sub> O <sub>3</sub> Intermediate Layer for Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5978-5988.	4.0	33
9381	Alternative Oxidation Reactions for Solar-Driven Fuel Production. <i>ACS Catalysis</i> , 2019, 9, 2007-2017.	5.5	115
9382	Theoretical screening of promising donor and $\pi$ -linker groups for POM-based Zn <sup>2+</sup> porphyrin dyes in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3822-3831.	1.3	14
9383	Thin film photoelectrodes for solar water splitting. <i>Chemical Society Reviews</i> , 2019, 48, 2182-2215.	18.7	221
9384	Layer-by-layer assembly for photoelectrochemical nanoarchitectonics. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 65-77.	1.7	25
9385	Lindqvist polyoxometalates as electrolytes in p-type dye sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 96-100.	2.5	13
9386	A flexible CdS nanorods-carbon nanotubes/stainless steel mesh photoanode for boosted photoelectrocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2019, 55, 2741-2744.	2.2	48
9387	Black and white anatase, rutile and mixed forms: band-edges and photocatalytic activity. <i>Chemical Communications</i> , 2019, 55, 533-536.	2.2	34
9388	Photocatalytic ammonia production enhanced by a plasmonic near-field and hot electrons originating from aluminium nanostructures. <i>Faraday Discussions</i> , 2019, 214, 399-415.	1.6	12
9389	Theoretical study on the influence of electric field direction on the photovoltaic performance of aryl amine organic dyes for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 651-661.	1.4	7
9390	Solar electricity and fuel production with perylene monoimide dye-sensitised TiO <sub>2</sub> in water. <i>Chemical Science</i> , 2019, 10, 2758-2766.	3.7	40
9391	High performance flexible dye-sensitized solar cells base on multiple functional optimizations. <i>Solar Energy</i> , 2019, 180, 423-428.	2.9	8
9392	Photo-to-electricity generation of aligned carbon nanotubes in water. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1996-2001.	5.2	9
9393	Thermal vacuum de-oxygenation and post oxidation of TiO <sub>2</sub> nanorod arrays for enhanced photoelectrochemical properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5434-5441.	5.2	18

#	ARTICLE	IF	CITATIONS
9394	Effect of trap states on photocatalytic properties of boron-doped anatase TiO <sub>2</sub> microspheres studied by time-resolved infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4349-4358.	1.3	19
9395	Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. <i>Chemical Society Reviews</i> , 2019, 48, 2109-2125.	18.7	1,639
9396	Geometric Effect of Grating-Patterned Electrode for High Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Multiscale Science and Engineering</i> , 2019, 1, 161-166.	0.9	4
9397	Solution-processed TiO <sub>2</sub> /BiVO <sub>4</sub> /SnO <sub>2</sub> triple-layer photoanode with enhanced photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2019, 785, 1245-1252.	2.8	27
9398	Non-equilibrium growth model of fibrous mesocrystalline rutile TiO <sub>2</sub> nanorods. <i>Journal of Crystal Growth</i> , 2019, 511, 8-14.	0.7	5
9399	All-Oxide $\text{Fe}_{2}\text{O}_{3}/\text{H-TiO}_{2}$ Heterojunction Photoanode: A Platform for Stable and Enhanced Photoelectrochemical Performance through Favorable Band Edge Alignment. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3326-3335.	1.5	38
9400	Solution-Processed Ultrathin SnS <sub>2</sub> â€“Pt Nanoplates for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6918-6926.	4.0	57
9401	Clear and transparent nanocrystals for infrared-responsive carrier transfer. <i>Nature Communications</i> , 2019, 10, 406.	5.8	33
9402	A nanostructured NiO/cubic SiC $\text{p-n}$ heterojunction photoanode for enhanced solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4721-4728.	5.2	50
9403	Role of hexyloxy groups in zinc phthalocyanines bearing sulfonic acid anchoring groups for dye-sensitized solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019, 23, 279-286.	0.4	13
9404	Investigation of the photoelectrochemical properties of layered manganese oxide. <i>New Journal of Chemistry</i> , 2019, 43, 4049-4058.	1.4	6
9405	Passivation of recombination active PdSex centers in (001)-textured photoactive WSe <sub>2</sub> films. <i>Materials Science in Semiconductor Processing</i> , 2019, 93, 284-289.	1.9	20
9406	Efficient Solar-to-Hydrogen Conversion from Neutral Electrolytes using Morphology-Controlled Sb <sub>2</sub> Se <sub>3</sub> Light Absorbers. <i>ACS Energy Letters</i> , 2019, 4, 517-526.	8.8	63
9407	Introducing Asymmetry Induced by Benzene Substitution in a Rigid Fused $\text{D}^{\text{A}}\text{A}$ -Type Solar Cells: A Computational Investigation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4007-4021.	1.5	41
9408	Visible light active CdS@TiO <sub>2</sub> core-shell nanostructures for the photodegradation of chlorophenols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 374, 75-83.	2.0	39
9409	Onion-like graphitic carbon covering metallic nanocrystals derived from brown coal as a stable and efficient counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 414, 495-501.	4.0	28
9410	Oxygen evolution NiOOH catalyst assisted V <sub>2</sub> O <sub>5</sub> @BiVO <sub>4</sub> inverse opal hetero-structure for solar water oxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4656-4663.	3.8	28
9411	Recent Advances in the Use of Black TiO <sub>2</sub> for Production of Hydrogen and Other Solar Fuels. <i>ChemPhysChem</i> , 2019, 20, 1272-1281.	1.0	34

#	ARTICLE	IF	CITATIONS
9412	Synthesis and characterization of a coaxial carbon-TiO <sub>2</sub> nanotube arrays film with spectral response from UV to NIR and its application in solar energy conversion. <i>Electrochimica Acta</i> , 2019, 301, 325-331.	2.6	14
9413	Tuning the electronic band alignment properties of TiO <sub>2</sub> nanotubes by boron doping. <i>Results in Physics</i> , 2019, 12, 1725-1731.	2.0	33
9414	Performance Regulation of Thieno[3,2-b]benzothiophene $\pi$ -Spacer-Based D- $\pi$ -A Organic Dyes for Dye-Sensitized Solar Cell Applications: Insights From Computational Study. <i>Frontiers in Chemistry</i> , 2018, 6, 676.	1.8	20
9415	Efficient hydrogen evolution on (CuInS) <sub>2</sub> ·x(ZnS) <sub>1-x</sub> solid solution-based photocathodes under simulated sunlight. <i>Chemical Communications</i> , 2019, 55, 470-473.	2.2	25
9416	A microstructured p-Si photocathode outcompetes Pt as a counter electrode to hematite in photoelectrochemical water splitting. <i>Dalton Transactions</i> , 2019, 48, 1166-1170.	1.6	6
9417	Enhancing photoelectrochemical hydrogen production of a n <sup>+</sup> -p-Si hetero-junction photocathode with amorphous Ni and Ti layers. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 527-532.	3.0	10
9418	Native Surface Oxides Featured Liquid Metals for Printable Self-Powered Photoelectrochemical Device. <i>Frontiers in Chemistry</i> , 2019, 7, 356.	1.8	6
9419	Surface Chemistry Directs the Tunable Assembly of TiO <sub>2</sub> Anatase Nanocubes into Three-Dimensional Mesocrystals. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3165-3170.	1.0	1
9420	High-Throughput Screening Delafossite CuMO <sub>2</sub> (M = IIIA, 3d, 4d, 5d, and RE) Optoelectronic Functional Materials Based on First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14292-14302.	1.5	27
9421	First Principles Calculations on the Stoichiometric and Defective (101) Anatase Surface and Upon Hydrogen and H <sub>2</sub> Pc Adsorption: The Influence of Electronic Exchange and Correlation and of Basis Set Approximations. <i>Frontiers in Chemistry</i> , 2019, 7, 220.	1.8	6
9422	Self-Organized Arrays of SnO <sub>2</sub> Microplates with Photocatalytic and Antimicrobial Properties. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3171-3179.	1.0	4
9423	A promising heat-induced supramolecular metallogel electrolyte for quasi-solid-state dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1563-1570.	1.2	9
9424	Suppressed Charge Recombination in Hematite Photoanode via Protonation and Annealing. <i>ACS Applied Energy Materials</i> , 2019, 2, 5438-5445.	2.5	16
9425	Study of fabrication of fully aqueous solution processed SnS quantum dot-sensitized solar cell. <i>Green Processing and Synthesis</i> , 2019, 8, 443-450.	1.3	2
9426	MOF-derived Co <sub>3</sub> O <sub>4</sub> thin film decorated BiVO <sub>4</sub> for enhancement of photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019, 491, 497-504.	3.1	77
9427	Three-Dimensional TiO <sub>2</sub> @Cu <sub>2</sub> O@Nickel Foam Electrodes: Design, Characterization, and Validation of O <sub>2</sub> -Independent Photocathodic Enzymatic Bioanalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25702-25707.	4.0	43
9428	Disentangling charge carrier from photothermal effects in plasmonic metal nanostructures. <i>Nature Communications</i> , 2019, 10, 2671.	5.8	119
9429	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4178-4280.	18.7	810



#	ARTICLE	IF	CITATIONS
9430	Chromium(VI) oxide-mediated oxidation of polyalkyl-polypyridines to polypyridine-polycarboxylic acids with periodic acid. <i>Synthetic Communications</i> , 2019, 49, 2210-2218.	1.1	2
9431	Photocatalytically Active Amorphous and Crystalline TiO <sub>2</sub> Prepared by Atomic Layer Deposition. <i>Periodica Polytechnica: Chemical Engineering</i> , 2019, 63, 378-387.	0.5	6
9432	Green synthesis, characterization of silver nanoparticles and their study on antibacterial activity and optical limiting behavior. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	5
9433	Ti-Ti $\tilde{f}$ bond at oxygen vacancy inducing the deep defect level in anatase TiO <sub>2</sub> (101) surface. <i>Journal of Chemical Physics</i> , 2019, 150, 224702.	1.2	25
9434	First Principles Study on Structurally Resolved Titanium Dioxide Nanoparticles Functionalized by Organic Ligands. <i>Journal of Structural Chemistry</i> , 2019, 60, 671-677.	0.3	3
9435	Nb <sub>2</sub> O <sub>5</sub> dye-sensitized solar cells. , 2019, , 287-322.		14
9436	Electrolyte for dye-sensitized, quantum dots, and perovskite solar cells. , 2019, , 513-555.		1
9437	Graphene and carbon nanotube-based solar cells. , 2019, , 603-660.		2
9438	Ultrathin NiMn-layered double hydroxide nanosheets coupled with $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanorod arrays for photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019, 492, 264-271.	3.1	40
9439	Sol-gel auto-combustion synthesis of Ca <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> brownmillerite nanopowders and thin films for advanced oxidation photoelectrochemical water treatment in visible light. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103224.	3.3	14
9440	Preparation of Nano-TiO <sub>2</sub> by a Surfactant-Free Microemulsion Hydrothermal Method and Its Photocatalytic Activity. <i>Langmuir</i> , 2019, 35, 9255-9263.	1.6	26
9441	Effect of Fe <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> nanocomposite synthesis method on the Congo red dye photodegradation under visible light irradiation. <i>Materials Chemistry and Physics</i> , 2019, 236, 121724.	2.0	61
9442	Progress on Electrolytes Development in Dye-Sensitized Solar Cells. <i>Materials</i> , 2019, 12, 1998.	1.3	152
9443	Activating titanium dopants in hematite photoanode by rapid thermal annealing for enhancing photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2019, 318, 746-753.	2.6	16
9444	Highly Electroconductive Metal-Organic Framework: Tunable by Metal Ion Sorption Quantity. <i>Journal of the American Chemical Society</i> , 2019, 141, 11173-11182.	6.6	76
9445	Electron Accumulation Induces Efficiency Bottleneck for Hydrogen Production in Carbon Nitride Photocatalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 11219-11229.	6.6	177
9446	Heterostructured Sn/SnO <sub>2</sub> nanotube peapods with a strong plasmonic effect for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16883-16891.	5.2	26
9447	Artificial photosynthesis concluding remarks. <i>Faraday Discussions</i> , 2019, 215, 439-451.	1.6	14



#	ARTICLE	IF	CITATIONS
9466	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10368-10374.	7.2	42
9467	Metal-organic frameworks for artificial photosynthesis via photoelectrochemical route. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 114-120.	2.5	16
9468	Binary redox electrolytes used in dye-sensitized solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 53-65.	2.9	25
9469	Gradient Carrier Doping as a Method for Maximizing the Photon-to-Current Efficiency of a SrTiO <sub>3</sub> Water-Splitting Photoanode. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15551-15556.	1.5	10
9470	Rational Design of Branched WO <sub>3</sub> Nanorods Decorated with BiVO <sub>4</sub> Nanoparticles by All-Solution Processing for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 4535-4543.	2.5	36
9471	Tailoring of TiO <sub>2</sub> film crystal texture for higher photocatalysis efficiency. <i>Applied Surface Science</i> , 2019, 489, 576-583.	3.1	21
9472	K <sub>2</sub> GeF <sub>6</sub> :Mn <sup>4+</sup> phosphor for improving performance of CdS-CdTe solar cells. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
9473	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. <i>Progress in Materials Science</i> , 2019, 106, 100574.	16.0	184
9474	A Review of Recent Applications of Ion Beam Techniques on Nanomaterial Surface Modification: Design of Nanostructures and Energy Harvesting. <i>Small</i> , 2019, 15, e1901820.	5.2	72
9475	The effect of methyl-tri-n-butylammonium methylsulfate and graphite nanoplates on production of antistatic acrylic polymer. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1471-1479.	0.6	3
9476	Development of a low environmental impact, porous solar absorber coating utilizing binary/ternary solvent blends for CSP systems. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 996-1003.	1.2	3
9477	Oxygen-deficient WO <sub>3</sub> via high-temperature two-step annealing for enhanced and highly stable water splitting. <i>Chemical Communications</i> , 2019, 55, 7958-7961.	2.2	12
9478	Boosting the performance of delafossite photocathode through constructing a CuFeO <sub>2</sub> /CuO heterojunction for photoelectrochemical water reduction. <i>Journal of Materials Science</i> , 2019, 54, 11951-11958.	1.7	23
9479	Trans influence and substituent effects on the HOMO-LUMO energy gap and Stokes shift in Ru mono-diimine derivatives. <i>Journal of Molecular Structure</i> , 2019, 1195, 620-631.	1.8	6
9480	Metal-Organic Framework Coating Enhances the Performance of Cu <sub>2</sub> O in Photoelectrochemical CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 10924-10929.	6.6	219
9481	Phase and Vacancy Modulation in Tungsten Oxide: Electrochemical Hydrogen Evolution. <i>ChemElectroChem</i> , 2019, 6, 3420-3428.	1.7	35
9482	Hole compensation effect in III-Mn-V dilute ferromagnetic semiconductors. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 355301.	1.3	1
9483	A Theoretical Study on Overpotential and Photocurrent of a Photo Fuel Cell. <i>Theoretical Foundations of Chemical Engineering</i> , 2019, 53, 147-150.	0.2	6

#	ARTICLE	IF	CITATIONS
9484	Hierarchically heterostructured metal hydr(oxy)oxides for efficient overall water splitting. <i>Nanoscale</i> , 2019, 11, 11736-11743.	2.8	14
9485	Catechol versus carboxyl linkage impact on DSSC performance of synthetic pyranoflavylum salts. <i>Dyes and Pigments</i> , 2019, 170, 107577.	2.0	26
9486	Intramolecular Path Determination of Active Electrons on Push-Pull Oligocarbazole Dyes-Sensitized Solar Cells. <i>ChemistryOpen</i> , 2019, 8, 580-588.	0.9	7
9487	Solar-Driven Water-Gas Shift Reaction over CuO x /Al <sub>2</sub> O <sub>3</sub> with 1.1% of Light Energy Storage. <i>Angewandte Chemie</i> , 2019, 131, 7790-7794.	1.6	17
9488	In situ synthesis of TiO <sub>2</sub> nanosheets@CdSe nanocomposites and the improved photocatalytic performance on removal of methylene blue. <i>Applied Surface Science</i> , 2019, 487, 91-100.	3.1	24
9489	A theoretical investigation of the optoelectronic performance of some new carbazole dyes. <i>Journal of Computational Electronics</i> , 2019, 18, 951-961.	1.3	6
9490	Vapor Deposition of Semiconducting Phosphorus Allotropes into TiO <sub>2</sub> Nanotube Arrays for Photoelectrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2019, 2, 3358-3367.	2.4	30
9491	Pulsed Laser Fabrication of TiO <sub>2</sub> Buffer Layers for Dye Sensitized Solar Cells. <i>Nanomaterials</i> , 2019, 9, 746.	1.9	10
9492	Development of a self-powered photoelectrochemical system (SPPS) for the determination of propyl gallate. <i>Microchemical Journal</i> , 2019, 148, 424-432.	2.3	9
9493	Interfacial structure and properties of TiO <sub>2</sub> phase junction studied by DFT calculations. <i>Applied Surface Science</i> , 2019, 485, 8-21.	3.1	14
9494	Tuning the electronic and optical properties of Pt(diimine)(dithiolate) complexes through different anchoring groups; A DFT/TD-DFT study. <i>Inorganica Chimica Acta</i> , 2019, 494, 13-20.	1.2	11
9495	Tailoring Ultrafast Singlet Fission by the Chemical Modification of Phenazinothiadiazoles. <i>Journal of the American Chemical Society</i> , 2019, 141, 8834-8845.	6.6	39
9496	All-Solution-Processed WO <sub>3</sub> /BiVO <sub>4</sub> Core-Shell Nanorod Arrays for Highly Stable Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20004-20012.	4.0	57
9497	Gold nanoparticle decorated bismuth sulfide nanorods for enhanced photoelectrochemical hydrogen production. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6398-6405.	2.7	32
9498	Photoconversion of carbon dioxide into fuels using semiconductors. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 33, 72-82.	3.3	28
9499	Efficient solar-driven hydrogen generation using colloidal heterostructured quantum dots. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14079-14088.	5.2	46
9500	Photocatalytic activity of TiO <sub>2</sub> nanoparticles: a theoretical aspect. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13833-13859.	5.2	153
9501	Polyaniline nanotube/reduced graphene oxide aerogel as efficient counter electrode for quasi solid state dye sensitized solar cell. <i>Solar Energy</i> , 2019, 186, 360-369.	2.9	38

#	ARTICLE	IF	CITATIONS
9502	Dual Sites of CoO Nanoparticles and Co <sup>N</sup> Embedded within Coal-Based Support toward Advanced Triiodide Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 10484-10492.	3.2	4
9503	Multiligand Europium Complexes Incorporated Polyvinylpyrrolidone for Enhanced Solar Cell. Advances in Materials Science and Engineering, 2019, 2019, 1-13.	1.0	4
9504	Hierarchical Co-N microballs with heterostructure exhibiting superior electrochemical properties for water splitting and reduction of I <sub>3</sub> <sup>-</sup> . Journal of Alloys and Compounds, 2019, 797, 341-347.	2.8	6
9505	Novel 4,4'-bis(alkylphenyl/alkyloxyphenyl)-2,2'-bithiophene bridged cyclic thiourea functionalized triphenylamine sensitizers for efficient dye-sensitized solar cells. Solar Energy, 2019, 186, 1-8.	2.9	21
9506	Tunable optoelectronic properties of D-A- $\pi$ -A type dyes by altering auxiliary acceptor position and atomic electronegativity. Journal of Molecular Liquids, 2019, 287, 110883.	2.3	17
9507	Controlling the Spatial Direction of Hydrothermally Grown Rutile TiO <sub>2</sub> Nanocrystals by the Orientation of Seed Crystals. Crystals, 2019, 9, 64.	1.0	12
9508	Solar to chemical energy conversion using titania nanorod photoanodes augmented by size distribution of plasmonic Au-nanoparticle. Materials Chemistry and Physics, 2019, 231, 322-334.	2.0	8
9509	NiO/NiS Heterostructures: An Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 3587-3594.	2.5	71
9510	Influence of Au/Pd alloy on an amine functionalised ZnCr LDH@MCM-41 nanocomposite: A visible light sensitive photocatalyst towards one-pot imine synthesis. Catalysis Science and Technology, 2019, 9, 2493-2513.	2.1	37
9511	Photogenerated carrier dynamics at the anatase/rutile TiO <sub>2</sub> interface. Physical Review B, 2019, 99, .	1.1	22
9512	Photovoltaic Characteristics of Multiwalled Carbon Nanotube Counter-Electrode Materials for Dye-Sensitized Solar Cells Produced by Chemical Treatment and Addition of Dispersant. Coatings, 2019, 9, 250.	1.2	10
9513	Polarizable embedding for simulating redox potentials of biomolecules. Physical Chemistry Chemical Physics, 2019, 21, 11642-11650.	1.3	20
9514	Influence of the gas atmosphere during the synthesis of g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production from water on Au/g-C <sub>3</sub> N <sub>4</sub> composites. Journal of Materials Chemistry A, 2019, 7, 14849-14863.	5.2	81
9515	Efficiency and stability of narrow-gap semiconductor-based photoelectrodes. Energy and Environmental Science, 2019, 12, 2345-2374.	15.6	88
9516	Computationally Driven Design Principles for Singlet Fission in Organic Chromophores. Journal of Physical Chemistry C, 2019, 123, 19257-19268.	1.5	22
9517	Modeling Electron Injection at Semiconductor-Molecule Interfaces using First-Principles Dynamics Simulation: Effects of Nonadiabatic Coupling, Self-energy, and Surface Models. Journal of Physical Chemistry C, 2019, 123, 13295-13303.	1.5	4
9518	Tungsten oxide ion-gated phototransistors using ionic liquid and aqueous gating media. Journal Physics D: Applied Physics, 2019, 52, 305102.	1.3	13
9519	Enhanced photovoltaic performance of dye-sensitized solar cells by the adsorption of Zn-porphyrin dye molecule on TiO <sub>2</sub> surfaces. Journal of Alloys and Compounds, 2019, 794, 35-44.	2.8	4

#	ARTICLE	IF	CITATIONS
9520	Effect of plasmonic Ag nanowires on the photocatalytic activity of Cu doped Fe <sub>2</sub> O <sub>3</sub> nanostructures photoanodes for superior photoelectrochemical water splitting applications. Journal of Electroanalytical Chemistry, 2019, 842, 146-160.	1.9	24
9521	Influences of acids on morphology and properties of TiO <sub>2</sub> grown on electrospun PVDF fibers. Journal of Physics and Chemistry of Solids, 2019, 133, 117-127.	1.9	8
9522	Effect of donor modification on the photo-physical and photo-voltaic properties of N-alkyl/aryl amine based chromophores. New Journal of Chemistry, 2019, 43, 8970-8981.	1.4	17
9523	p-Type NiO modified BiVO <sub>4</sub> photoanodes with enhanced charge separation and solar water oxidation kinetics. Materials Letters, 2019, 249, 128-131.	1.3	17
9524	A thermally synergistic photo-electrochemical hydrogen generator operating under concentrated solar irradiation. Nature Energy, 2019, 4, 399-407.	19.8	141
9525	Comparison of mono- and di-substituted triphenylamine and carbazole based sensitizers @TiO <sub>2</sub> /38 cluster for dye-sensitized solar cells applications. Computational and Theoretical Chemistry, 2019, 1159, 1-6.	1.1	29
9526	Preparation of Nanostructured Ta <sub>3</sub> N <sub>5</sub> Electrodes by Alkaline Hydrothermal Treatment Followed by NH <sub>3</sub> Annealing and Their Improved Water Oxidation Performance. ACS Omega, 2019, 4, 7815-7821.	1.6	10
9527	Rigidified and expanded N-annulated perylenes as efficient donors in organic sensitizers for application in solar cells. Physical Chemistry Chemical Physics, 2019, 21, 10488-10496.	1.3	11
9528	Stepping towards Solar Water Splitting: Recent Progress in Bismuth Vanadate Photoanodes. ChemElectroChem, 2019, 6, 3227-3243.	1.7	42
9529	(Photo) electrochemical water oxidation at anodic TiO <sub>2</sub> nanotubes modified by electrodeposited NiFe oxy-hydroxides catalysts. Electrochimica Acta, 2019, 308, 91-98.	2.6	20
9530	Deep insight into electron transport and photovoltaic parameters in DSSCs. Emerging Materials Research, 2019, 8, 113-122.	0.4	5
9531	Optimal Sr-Doped Free TiO <sub>2</sub> @SrTiO <sub>3</sub> Heterostructured Nanowire Arrays for High-Efficiency Self-Powered Photoelectrochemical UV Photodetector Applications. Crystals, 2019, 9, 134.	1.0	4
9532	Ultrafast photoinduced energy and charge transfer. Faraday Discussions, 2019, 216, 9-37.	1.6	5
9533	Effect of heterojunctions and phase-junctions on visible-light photocatalytic hydrogen evolution in BCN-TiO <sub>2</sub> photocatalysts. Chemical Physics Letters, 2019, 727, 11-18.	1.2	20
9534	In Situ Mn-Doping-Promoted Conversion of Co(OH) <sub>2</sub> to Co <sub>3</sub> O <sub>4</sub> as an Active Electrocatalyst for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 9690-9698.	3.2	36
9535	The importance of charge redistribution during electrochemical reactions: a density functional theory study of silver orthophosphate (Ag <sub>3</sub> PO <sub>4</sub> ). Physical Chemistry Chemical Physics, 2019, 21, 9531-9537.	1.3	7
9536	Exploring the effect of oligocene elongation on photovoltaic, optoelectronic and charge transfer properties in TPA dyes tethered to the semiconductor surface. Results in Physics, 2019, 13, 102304.	2.0	17
9537	Solar Cells Constructed with Polythiophene Thin Films Grown along Tethered Thiophene-“Dye Conjugates via Photoelectrochemical Polymerization. ACS Applied Materials & Interfaces, 2019, 11, 18755-18762.	4.0	16

#	ARTICLE	IF	CITATIONS
9538	Liquid Thermocouple Using Thermoelectric Ionic Liquids. , 2019, 3, 1-4.		12
9539	Synthesis of Porous NiMo Sulfide Microspheres for High-Performance Dye-Sensitized Solar Cells and Supercapacitor. Nano, 2019, 14, 1950048.	0.5	11
9540	Low-Cost and High-Performance ZnO Nanoclusters Gas Sensor Based on New-Type FTO Electrode for the Low-Concentration H <sub>2</sub> S Gas Detection. Nanomaterials, 2019, 9, 435.	1.9	34
9541	Integrating PbS Quantum Dots with Hematite for Efficient Photoelectrochemical Hydrogen Production. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800839.	0.8	6
9543	Data mining new energy materials from structure databases. Renewable and Sustainable Energy Reviews, 2019, 107, 554-567.	8.2	38
9544	Hot carriers in action: multimodal photocatalysis on Au@SnO <sub>2</sub> core-shell nanoparticles. Nanoscale, 2019, 11, 7324-7334.	2.8	32
9545	Exploitation of Nanoparticles as Photocatalysts for Clean and Environmental Applications. Environmental Chemistry for A Sustainable World, 2019, , 279-319.	0.3	2
9546	Nanophotocatalysis and Environmental Applications. Environmental Chemistry for A Sustainable World, 2019, , .	0.3	7
9547	Ultrathin MoS <sub>2</sub> nanosheets for high-performance photoelectrochemical applications via plasmonic coupling with Au nanocrystals. Nanoscale, 2019, 11, 7813-7824.	2.8	57
9548	Enhanced charge transfer and separation of hierarchical CuO/ZnO composites: The synergistic effect of photocatalysis for the mineralization of organic pollutant in water. Applied Surface Science, 2019, 484, 884-891.	3.1	85
9549	Rapid synthesis of 4-alkynyl coumarins and tunable electronic properties of emission solvatochromic fluorophores. Dyes and Pigments, 2019, 166, 357-366.	2.0	19
9550	Studies on photosensitization of TiO <sub>2</sub> nanoparticles by novel 1,3,4-oxadiazoles derivatives. Optik, 2019, 183, 732-741.	1.4	6
9551	Nitrogen-Containing Hierarchically Porous Tubular Carbon as an Efficient Counter Electrode for Dye-Sensitized Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 700-709.	1.5	5
9552	Nickel Oxide as Efficient Hole Transport Materials for Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900001.	3.1	151
9553	Structure and Electronic Properties of TiO <sub>2</sub> Nanoclusters and Dye-Nanocluster Systems Appropriate to Model Hybrid Photovoltaic or Photocatalytic Applications. Nanomaterials, 2019, 9, 357.	1.9	32
9554	Photoelectrocatalytic H <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> Production Using Visible-Light-Absorbing Photoanodes. Catalysts, 2019, 9, 243.	1.6	16
9556	Construction of hierarchical hetero-structured TiO <sub>2</sub> photoanodes for dye-sensitized solar energy conversion: Case study of anatase nanobranches on rutile nanorod arrays. Chemical Physics, 2019, 522, 129-133.	0.9	7
9557	Boosting photoelectrochemical water splitting performance of Ta <sub>3</sub> N <sub>5</sub> nanorod array photoanodes by forming a dual co-catalyst shell. Nano Energy, 2019, 59, 683-688.	8.2	52

#	ARTICLE	IF	CITATIONS
9558	Band Tunable CdSe Quantum Dot-Doped Metals for Quantum Dot-Sensitized Solar Cell Application. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-8.	1.4	8
9559	Metal Coordination Complexes as Redox Mediators in Regenerative Dye-Sensitized Solar Cells. <i>Inorganics</i> , 2019, 7, 30.	1.2	79
9560	Photoelectrochemical Characterization of p-type InAlP on GaAs for Solar Water Splitting Application. <i>Journal of the Korean Physical Society</i> , 2019, 74, 116-121.	0.3	2
9561	An Ultrasonication Based Facile Protocol to Synthesize Mesoporous Nanocrystalline TiO <sub>2</sub> as Photo Anode for Application in Quantum Dot/Perovskite Sensitized Solar Cell. <i>Journal of Electronic Materials</i> , 2019, 48, 3183-3193.	1.0	4
9562	Pyridinium p-DSSC dyes: An old acceptor learns new tricks. <i>Dyes and Pigments</i> , 2019, 165, 508-517.	2.0	18
9563	A novel photoelectrochemical sensing platform based on Fe <sub>2</sub> O <sub>3</sub> @Bi <sub>2</sub> S <sub>3</sub> heterojunction for an enzymatic process and enzyme activity inhibition reaction. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 202-209.	4.0	25
9564	First Principles Study of Dendritic Carbazole Photosensitizer Dyes Modified with Different Conjugation Structures. <i>ChemistrySelect</i> , 2019, 4, 2787-2794.	0.7	5
9566	<i>Bacillus Licheniformis</i> CotA Laccase Mutant: Electrocatalytic Reduction of O <sub>2</sub> from 0.6 V (SHE) at pH 8 and in Seawater. <i>ChemElectroChem</i> , 2019, 6, 2043-2049.	1.7	12
9567	Band Positions and Photoelectrochemical Properties of Solution-Processed Silver-Substituted Cu <sub>2</sub> ZnSnS <sub>4</sub> Photocathode. <i>ACS Applied Energy Materials</i> , 2019, 2, 2779-2785.	2.5	44
9568	Recent progress in quantum dot sensitized solar cells: an inclusive review of photoanode, sensitizer, electrolyte, and the counter electrode. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4911-4933.	2.7	93
9569	Poly(1,4-diethynylbenzene) Gradient Homo Junction with Enhanced Charge Carrier Separation for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2019, 31, e1900961.	11.1	53
9570	Efficient power generating devices utilizing low intensity indoor lights via non-radiative energy transfer mechanism from organic ionic redox couples. <i>Nano Energy</i> , 2019, 60, 457-466.	8.2	44
9571	Halide Photoredox Chemistry. <i>Chemical Reviews</i> , 2019, 119, 4628-4683.	23.0	127
9572	Binary molecular-semiconductor p-n junctions for photoelectrocatalytic CO <sub>2</sub> reduction. <i>Nature Energy</i> , 2019, 4, 290-299.	19.8	149
9573	Tungsten Trioxide Nanostructures for Photoelectrochemical Water Splitting: Material Engineering and Charge Carrier Dynamic Manipulation. <i>Advanced Functional Materials</i> , 2019, 29, 1809036.	7.8	122
9574	Enhanced photocatalysis for water splitting in layered tin chalcogenides with high carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7559-7566.	1.3	36
9575	Mechanisms of Iodide-Triiodide Exchange Reactions in Ionic Liquids: A Reactive Molecular-Dynamics Exploration. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1123.	1.8	5
9576	Toward practical solar hydrogen production – an artificial photosynthetic leaf-to-farm challenge. <i>Chemical Society Reviews</i> , 2019, 48, 1908-1971.	18.7	781



#	ARTICLE	IF	CITATIONS
9577	Natural Extracellular Electron Transfer Between Semiconducting Minerals and Electroactive Bacterial Communities Occurred on the Rock Varnish. <i>Frontiers in Microbiology</i> , 2019, 10, 293.	1.5	35
9578	Photoelectrocatalytic Hydrogen Generation Enabled by CdS Passivated ZnCuInSe Quantum Dot-Sensitized TiO <sub>2</sub> Decorated with Ag Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 393.	1.9	9
9579	Overview of Dye-Sensitized Solar Cells. , 2019, , 1-49.		10
9580	Catalytic Properties of Selected Transition Metal Oxidesâ€”Computational Studies. Challenges and Advances in Computational Chemistry and Physics, 2019, , 345-408.	0.6	2
9581	Insights Into Dye-Sensitized Solar Cells From Macroscopic-Scale First-Principles Mathematical Modeling. , 2019, , 83-119.		2
9582	An approximate procedure for profiling dye molecules with potentials as sensitizers in solar cell application: A DFT/TD-DFT approach. <i>Chemical Physics Letters</i> , 2019, 723, 111-117.	1.2	12
9583	Conductive hollow kapok fiber-PPy monolithic aerogels with excellent mechanical robustness for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9673-9679.	5.2	141
9584	Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8550-8558.	5.2	19
9585	Challenges of Synthesis and Environmental Applications of Metal-Free Nano-heterojunctions. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 107-138.	0.3	0
9586	Novelty in Designing of Photocatalysts for Water Splitting and CO <sub>2</sub> Reduction. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 41-65.	0.3	1
9587	Sorption-enhanced CO capture over Cu-Mn-Ce composite oxides with LiOH addition: CO oxidation and in-situ CO <sub>2</sub> sorption. <i>Chemical Engineering Journal</i> , 2019, 371, 267-275.	6.6	14
9588	Dilute nitrides-based nanowiresâ€”a promising platform for nanoscale photonics and energy technology. <i>Nanotechnology</i> , 2019, 30, 292002.	1.3	13
9589	Transition metal dichalcogenide-based composites for hydrogen production. <i>Functional Composites and Structures</i> , 2019, 1, 012001.	1.6	12
9590	The role of lateral pterygoid muscle in the traumatic temporomandibular joint ankylosis: A gene chip based analysis. <i>Molecular Medicine Reports</i> , 2019, 19, 4297-4305.	1.1	6
9591	Effect of Facetâ€”Selective Assembly of Cocatalyst on BiVO <sub>4</sub> Photoanode for Solar Water Oxidation. <i>ChemCatChem</i> , 2019, 11, 3763-3769.	1.8	34
9592	Single-crystal TiO <sub>2</sub> /SrTiO <sub>3</sub> coreâ€”shell heterostructured nanowire arrays for enhanced photoelectrochemical performance. <i>Rare Metals</i> , 2019, 38, 369-378.	3.6	18
9593	Ferroelectric Feâ€”Cr Codoped BaTiO <sub>3</sub> Nanoparticles for the Photocatalytic Oxidation of Azo Dyes. <i>ACS Applied Nano Materials</i> , 2019, 2, 2890-2901.	2.4	43
9594	Multiâ€”Dentate Carbazole Based Schiff Base Dyes with Chlorovinylene Group in Spacer for Dyeâ€”Sensitized Solar Cells: A Combined Theoretical and Experimental Study.. <i>ChemistrySelect</i> , 2019, 4, 4044-4056.	0.7	22

#	ARTICLE	IF	CITATIONS
9595	Computational Investigation on Series of Metal-Free Sensitizers in Tetrahydroquinoline with Different Spacer Groups for DSSCs. <i>ChemistrySelect</i> , 2019, 4, 4097-4104.	0.7	20
9596	Self-assembled composite thin film counter electrode of cobalt sulfide/functionalized graphene for dye-sensitized solar cells. <i>Thin Solid Films</i> , 2019, 679, 8-14.	0.8	7
9597	Ultra-long distance carrier transportation in bandgap-graded CdS <sub>x</sub> Se <sub>1-x</sub> nanowire waveguides. <i>Nanoscale</i> , 2019, 11, 8494-8501.	2.8	11
9598	Colloidal synthesis of SnS nanocrystals with dimension-dependent photoelectrochemical properties. <i>New Journal of Chemistry</i> , 2019, 43, 7457-7462.	1.4	15
9599	Photoelectrochemical response to glutathione in Au-decorated ZnO nanorod array. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5624-5629.	2.7	24
9600	Structural, optical and electrical properties of Ag-doped SnS <sub>2</sub> nano-flowers synthesized by solvothermal method. <i>Materials Research Express</i> , 2019, 6, 075524.	0.8	4
9601	Hematite nanostructures: An old material for a new story. Simultaneous photoelectrochemical oxidation of benzylamine and hydrogen production through Ti doping. <i>Nano Energy</i> , 2019, 61, 36-46.	8.2	46
9602	Understanding charge transfer, defects and surface states at hematite photoanodes. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1351-1364.	2.5	44
9603	Molybdenum doped CuWO <sub>4</sub> nanoflake array films as an efficient photoanode for solar water splitting. <i>Electrochimica Acta</i> , 2019, 308, 195-205.	2.6	47
9604	A quadruple-band metal-nitride nanowire artificial photosynthesis system for high efficiency photocatalytic overall solar water splitting. <i>Materials Horizons</i> , 2019, 6, 1454-1462.	6.4	38
9605	Bis[di(4-methoxyphenyl)amino]carbazole-capped indacenodithiophenes as hole transport materials for highly efficient perovskite solar cells: the pronounced positioning effect of a donor group on the cell performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10200-10205.	5.2	30
9606	Effect of Co-Based Metal-Organic Framework Prepared by an In Situ Growth Method on the Photoelectrochemical Performance of Electrodeposited Hematite Photoanode. <i>Energy Technology</i> , 2019, 7, 1801069.	1.8	9
9607	Effects of annealing temperature and cooling rate on photo-electrochemical performance of pristine polycrystalline metal-chalcogenide film electrodes. <i>Solar Energy</i> , 2019, 183, 704-715.	2.9	10
9609	Solar- versus Thermal-Driven Catalysis for Energy Conversion. <i>Joule</i> , 2019, 3, 920-937.	11.7	153
9610	Revealing the Relative Electronic Landscape of Colloidal ZnO and TiO <sub>2</sub> Nanoparticles via Equilibration Studies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10262-10271.	1.5	13
9611	Enhancement of Nonlinear Optical Properties of Indole Based Dyes through Electron Acceptor and Linker for Dye-Sensitized Solar Cell Applications. <i>ChemistrySelect</i> , 2019, 4, 3697-3705.	0.7	22
9612	Solar-Driven Water-Gas Shift Reaction over CuO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> with 1.1% of Light Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7708-7712.	7.2	78
9613	Electrochromic sensors: Innovative devices enabled by spectroelectrochemical methods. <i>Current Opinion in Electrochemistry</i> , 2019, 15, 66-72.	2.5	24

#	ARTICLE	IF	CITATIONS
9614	In situ studies: electrochemistry and scattering. <i>Current Opinion in Electrochemistry</i> , 2019, 15, 18-26.	2.5	12
9615	N-N type core-shell heterojunction engineering with MoO <sub>3</sub> over ZnO nanorod cores for enhanced solar energy harvesting application in a photoelectrochemical cell. <i>Journal of Alloys and Compounds</i> , 2019, 791, 739-746.	2.8	18
9616	A Polypyridyl-Based Layered Complex as Dual-Functional Co-catalyst for Photo-Driven Organic Dyes Degradation and Water Splitting. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 623-630.	0.6	6
9617	Quantum dot sensitized solar cell based on the different photoelectrodes for the enhanced performance. <i>Solar Energy Materials and Solar Cells</i> , 2019, 196, 78-83.	3.0	20
9618	Control of the Atomic Population of an Excited Atom by Using the Double Lorentzian Reservoir. <i>International Journal of Theoretical Physics</i> , 2019, 58, 2158-2166.	0.5	1
9619	Dye-sensitized solar cells based on an electrospun polymer nanocomposite membrane as electrolyte. <i>New Journal of Chemistry</i> , 2019, 43, 4444-4454.	1.4	20
9620	Fe <sub>2</sub> O <sub>3</sub> Blocking Layer Produced by Cyclic Voltammetry Leads to Improved Photoelectrochemical Performance of Hematite Nanorods. <i>Surfaces</i> , 2019, 2, 131-144.	1.0	10
9621	Plasmon-Resonant Enhancement of Photocatalysis on Monolayer WSe <sub>2</sub> . <i>ACS Photonics</i> , 2019, 6, 787-792.	3.2	43
9622	Plasmon-Enhanced Photoelectrochemical Water Splitting for Efficient Renewable Energy Storage. <i>Advanced Materials</i> , 2019, 31, e1805513.	11.1	159
9623	Elaborately Modified BiVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Advanced Materials</i> , 2019, 31, e1806938.	11.1	333
9624	Designing new quinoline-based organic photosensitizers for dye-sensitized solar cells (DSSC): a theoretical investigation. <i>Journal of Molecular Modeling</i> , 2019, 25, 75.	0.8	20
9625	Hybrid Nanoparticles. , 2019, , 3-6.		17
9626	Preparation and photocatalytic activity of Ag-modified GO-TiO <sub>2</sub> mesocrystals under visible light irradiation. <i>Applied Surface Science</i> , 2019, 480, 105-114.	3.1	56
9627	A carbon doped anatase TiO <sub>2</sub> as a promising semiconducting layer in Ru-dyes based dye-sensitized solar cells. <i>Inorganica Chimica Acta</i> , 2019, 489, 263-268.	1.2	19
9628	Stabilization of Ruthenium(II) Polypyridyl Chromophores on Mesoporous TiO <sub>2</sub> Electrodes: Surface Reductive Electropolymerization and Silane Chemistry. <i>ACS Central Science</i> , 2019, 5, 506-514.	5.3	15
9629	Interface Engineering for Modulation of Charge Carrier Behavior in ZnO Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2019, 29, 1808032.	7.8	153
9630	Rational Design of Photoelectrodes with Rapid Charge Transport for Photoelectrochemical Applications. <i>Advanced Materials</i> , 2019, 31, e1805132.	11.1	71
9631	Electrochromic semiconductors as colorimetric SERS substrates with high reproducibility and renewability. <i>Nature Communications</i> , 2019, 10, 678.	5.8	131

#	ARTICLE	IF	CITATIONS
9632	D-A- $\pi$ -A based organic dyes for efficient DSSCs: A theoretical study on the role of $\pi$ -spacer. Computational Materials Science, 2019, 161, 163-176.	1.4	65
9633	Evaluation of dye sensitized solar cells based on a pigment obtained from Antarctic Streptomyces fildesensis. Solar Energy, 2019, 181, 379-385.	2.9	30
9634	Designing interfaces in energy materials applications with first-principles calculations. Npj Computational Materials, 2019, 5, .	3.5	71
9635	Quantification of the Photocatalytic Self-Cleaning Ability of Non-Transparent Materials. Materials, 2019, 12, 508.	1.3	8
9636	Green synthesis and characterization of silver nanoparticles using belladonna mother tincture and its efficacy as a potential antibacterial and anti-inflammatory agent. Materials Chemistry and Physics, 2019, 228, 310-317.	2.0	61
9637	Noncovalent interactions based self-assembled bichromophoric sensitizer for dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2019, 23, 1099-1107.	1.2	3
9638	Carbon Nanomaterials in Renewable Energy Production and Storage Applications. Environmental Chemistry for A Sustainable World, 2019, , 51-104.	0.3	14
9639	Triazine-branched mono- and dianchoring organic dyes: Effect of acceptor arms on optical and photovoltaic properties. Dyes and Pigments, 2019, 165, 182-192.	2.0	7
9640	Enhanced solar to electrical energy conversion of titania nanoparticles and nanotubes-based combined photoanodes for dye-sensitized solar cells. Materials Letters, 2019, 243, 180-182.	1.3	22
9641	Enhanced photon harvesting in dye-sensitized solar cells by doping TiO <sub>2</sub> photoanode with NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Tm <sup>3+</sup> microrods. Optical Materials, 2019, 89, 368-374.	1.7	11
9642	Zr doped mesoporous LaTaON <sub>2</sub> for efficient photocatalytic water splitting. Journal of Materials Chemistry A, 2019, 7, 5702-5711.	5.2	58
9643	A non-perturbative approach to simulate heterogeneous electron transfer dynamics: Effective mode treatment of the continuum electronic states. Journal of Chemical Physics, 2019, 150, 044109.	1.2	8
9644	Effect of the Number of Anchoring and Electron-Donating Groups on the Efficiency of Free-Base- and Zn-Porphyrin-Sensitized Solar Cells. Materials, 2019, 12, 650.	1.3	2
9645	Fullerene as a Photoelectron Transfer Promoter Enabling Stable TiO <sub>2</sub> -Protected Sb <sub>2</sub> Se <sub>3</sub> Photocathodes for Photoelectrochemical Water Splitting. Advanced Energy Materials, 2019, 9, 1900179.	10.2	43
9646	Slow Hot-Carrier Cooling in Halide Perovskites: Prospects for Hot-Carrier Solar Cells. Advanced Materials, 2019, 31, e1802486.	11.1	191
9647	Axial Ligand Effects of Ru $\pi$ BDA Complexes in the O=O Bond Formation via the I2M Bimolecular Mechanism in Water Oxidation Catalysis. European Journal of Inorganic Chemistry, 2019, 2019, 2101-2108.	1.0	26
9648	Self-supported 3D porous N-Doped nickel selenide electrode for hydrogen evolution reaction over a wide range of pH. Electrochimica Acta, 2019, 304, 202-209.	2.6	39
9649	Photoelectrocatalytic arene C-H amination. Nature Catalysis, 2019, 2, 366-373.	16.1	193

#	ARTICLE	IF	CITATIONS
9650	Synthesis of Zn <sub>x</sub> Cd <sub>1-x</sub> Se@ZnO Hollow Spheres in Different Sizes for Quantum Dots Sensitized Solar Cells Application. <i>Nanomaterials</i> , 2019, 9, 132.	1.9	19
9651	Epitaxial TiO <sub>2</sub> Thin Film Photoanodes: Influence of Crystallographic Structure and Substrate Nature. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5240-5248.	1.5	11
9652	Achieving Organic Metal Halide Perovskite into a Conventional Photoelectrode: Outstanding Stability in Aqueous Solution and High-Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 1969-1976.	2.5	42
9653	Advanced scanning probe lithography using anatase-to-rutile transition to create localized TiO <sub>2</sub> nanorods. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 412-418.	1.5	0
9654	Theoretical studies on triaryamine-based p-type DSSC sensitizer. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 1257-1262.	0.8	7
9655	The in vitro synergistic denaturation effect of heat and surfactant on photosystem I isolated from <i>Arthrospira Platensis</i> . <i>Photosynthesis Research</i> , 2019, 141, 229-243.	1.6	4
9656	Metal-free organic dyes with di(1-benzothieno)[3,2-b:2',3'-d]pyrrole as a donor for efficient dye-sensitized solar cells: Effect of mono- and bi-anchors on photovoltaic performance. <i>Dyes and Pigments</i> , 2019, 165, 103-111.	2.0	26
9657	An Amorphous Cobalt Borate Nanosheet-Coated Cobalt Boride Hybrid for Highly Efficient Alkaline Water Oxidation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5620-5625.	3.2	51
9658	Titanium Dioxide: From Engineering to Applications. <i>Catalysts</i> , 2019, 9, 191.	1.6	277
9659	Artificial Z-scheme photocatalytic system: What have been done and where to go?. <i>Coordination Chemistry Reviews</i> , 2019, 385, 44-80.	9.5	265
9660	Cyclohexadienone core 3,6-di-tert-butylcarbazole decorated triazole bridged dendrimers: synthesis, photophysical and electrochemical properties and application as an additive in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 4036-4048.	1.4	3
9661	Stabilization of a Cyclometalated Ruthenium Sensitizer on Nanocrystalline TiO <sub>2</sub> by an Electrodeposited Covalent Layer. <i>Inorganic Chemistry</i> , 2019, 58, 3509-3517.	1.9	13
9662	Lithium Photointercalation of CdSensitized WO <sub>3</sub> Anode for Energy Storage and Photoelectrochromic Applications. <i>ChemSusChem</i> , 2019, 12, 2220-2230.	3.6	36
9663	Synthesis and characterisation of Sb-doped ZrO <sub>2</sub> and TiO <sub>2</sub> nanoparticles. <i>International Journal of Microstructure and Materials Properties</i> , 2019, 14, 286.	0.1	0
9664	Green building technology. , 2019, , 271-290.		0
9665	Investigation of Electrical Parameters on a DSSC Solar Cell in Function of the Cell Temperature. , 2019, , .		6
9666	Characterization of dye-sensitized solar cell (DSSC) with acid treatment by HNO <sub>3</sub> in mangosteen peel dye. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
9667	Structures and Properties of Methylammonium Iodide Precursors of Halide Perovskites and Implications for Solar Cells: an Ab-Initio Investigation. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 2694-2698.	0.1	1

#	ARTICLE	IF	CITATIONS
9668	I-V characteristics of n-Si /ZnO/Se/MWCNTs nanocomposite solar cell fabricated by solvothermal technique. AIP Conference Proceedings, 2019, , .	0.3	1
9669	FePc and FePcF16 on Rutile TiO <sub>2</sub> (110) and (100): Influence of the Substrate Preparation on the Interaction Strength. Molecules, 2019, 24, 4579.	1.7	11
9670	Optical and Morphological Properties of ZnO Nanostructure by Coating Aluminium and Plasmonic Material. Journal of Physics: Conference Series, 2019, 1351, 012020.	0.3	0
9671	2020 Roadmap on gas-involved photo- and electro- catalysis. Chinese Chemical Letters, 2019, 30, 2089-2109.	4.8	71
9672	Thermodynamic Stability and Native Point Defects of CuFeO <sub>2</sub> Photocathodes in Dry and Electrochemical Environments. Journal of Physical Chemistry C, 2019, 123, 29589-29598.	1.5	17
9673	Study of TiO <sub>2</sub> nanotubes decorated with PbS nanoparticles elaborated by pulsed laser deposition: microstructural, optoelectronic and photoelectrochemical properties. Journal of Materials Science: Materials in Electronics, 2019, 30, 20935-20946.	1.1	9
9674	Probing Charge Carrier Transport and Recombination Pathways in Monolayer MoS <sub>2</sub> /WS <sub>2</sub> Heterojunction Photoelectrodes. Nano Letters, 2019, 19, 9084-9094.	4.5	30
9675	Single nanoparticle photoelectrochemistry: What is next?. Journal of Chemical Physics, 2019, 151, 180901.	1.2	10
9676	Defect processes in F and Cl doped anatase TiO <sub>2</sub> . Scientific Reports, 2019, 9, 19970.	1.6	35
9677	Local Atomic and Electronic Structures of Î <sup>2</sup> -D <sub>2</sub> ooh Nanosheets for the Hydrogen-Release Reaction. Journal of Surface Investigation, 2019, 13, 1028-1034.	0.1	1
9678	The Optimized Thickness of Silver Doping on CdS/CdSe for Quantum Dot-Sensitized Solar Cell. International Journal of Photoenergy, 2019, 2019, 1-7.	1.4	1
9679	A semiconductor junction photoelectrochemical device without a depletion region. Nanoscale, 2019, 11, 23013-23020.	2.8	2
9680	Li-III-VI bilayers for efficient photocatalytic overall water splitting: the role of intrinsic electric field. Journal of Materials Chemistry A, 2019, 7, 26123-26130.	5.2	40
9681	Transferred monolayer MoS <sub>2</sub> onto GaN for heterostructure photoanode: Toward stable and efficient photoelectrochemical water splitting. Scientific Reports, 2019, 9, 20141.	1.6	46
9682	Non-linear optical properties of carbazole based dyes modified with diverse spacer units for dye-sensitized solar cells: A first principle study. AIP Conference Proceedings, 2019, , .	0.3	1
9683	Procedure Optimization of <i>Limonia acidissima</i> Leaf Extraction and Silver Nanoparticle Synthesis for Prominent Antibacterial Activity. ChemistrySelect, 2019, 4, 14276-14280.	0.7	8
9684	Comparative Study on Electrical Behavior of Silicon/Fullerene/Cul Dispersed Composite Polymer Electrolytes. Macromolecular Symposia, 2019, 388, 1900043.	0.4	6
9685	Dye-sensitized LaFeO <sub>3</sub> photocathode for solar-driven H <sub>2</sub> generation. Chemical Communications, 2019, 55, 12940-12943.	2.2	28

#	ARTICLE	IF	CITATIONS
9686	Recent developments of photoelectrochemical biosensors for food analysis. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7283-7300.	2.9	72
9687	Solar-to-Steam Generation via Porous Black Membranes with Tailored Pore Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48300-48308.	4.0	21
9688	Synthesis, Characterisation and the photocatalytic performance of europium oxide/ceria nanocomposite. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 2539-2550.	1.8	2
9689	Oxysulfidâ€Halbleiter fÃ¼r die photokatalytische Wasserspaltung mit sichtbarem Licht. <i>Angewandte Chemie</i> , 2019, 131, 15726-15728.	1.6	3
9690	Proton Acceptor near the Active Site Lowers Dramatically the Oâ€O Bond Formation Energy Barrier in Photocatalytic Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7690-7697.	2.1	13
9691	Effect of ZnO Nanoparticles Coating Layers on Top of ZnO Nanowires for Morphological, Optical, and Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>Micromachines</i> , 2019, 10, 819.	1.4	11
9692	Multifunctional hierarchical ZnIn <sub>2</sub> S <sub>4</sub> ±Î´ microflowers with photocatalytic and pseudocapacitive behavior. <i>Solar Energy</i> , 2019, 193, 806-813.	2.9	19
9693	Nitrogen-Plasma-Treated Continuous Monolayer MoS <sub>2</sub> for Improving Hydrogen Evolution Reaction. <i>ACS Omega</i> , 2019, 4, 21509-21515.	1.6	34
9694	Effect of silver nanoparticle in the PEDOT: PSS counter electrode of dye sensitized solar cell. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
9695	Effect of Cd <sub>1-x</sub> MnxSe Alloy Thickness on the Optical and Photovoltaic Properties of Quantum Dot-Sensitized Solar Cells. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	3
9696	N719 Derivatives for Application in a Dye-Sensitized Solar Cell (DSSC): A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10930-10939.	1.1	28
9697	SWCNH/diamond-ethylene glycol nanofluid flow over a wedge, plate and stagnation point with induced magnetic field and nonlinear radiation â€ solar energy application. <i>European Physical Journal: Special Topics</i> , 2019, 228, 2531-2551.	1.2	84
9698	Portable Self-Powered Piezoelectric Nanogenerator and Self-Charging Photo-Power Pack Using In Situ Formed Multifunctional Calcium Phosphate Nanorod-Doped PVDF Films. <i>Langmuir</i> , 2019, 35, 17016-17026.	1.6	16
9699	Dye-sensitized TiO <sub>2</sub> nanotube membranes act as a visible-light switchable diffusion gate. <i>Nanoscale Advances</i> , 2019, 1, 4844-4852.	2.2	3
9700	Hydrothermal synthesis and characterization of nanostructured titanium monoxide films. <i>RSC Advances</i> , 2019, 9, 40727-40735.	1.7	5
9701	Flat band potential determination: avoiding the pitfalls. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26162-26176.	5.2	258
9702	Photoelectrocatalytic Hydrogen Production Using a TiO <sub>2</sub> /WO <sub>3</sub> Bilayer Photocatalyst in the Presence of Ethanol as a Fuel. <i>Catalysts</i> , 2019, 9, 976.	1.6	24
9703	Effect of pH on photocatalytic and photoelectrochemical (PEC) properties of monoclinic bismuth vanadate. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 37-46.	5.0	48

#	ARTICLE	IF	CITATIONS
9704	Revisiting Oâ€“O Bond Formation through Outerâ€“sphere Water Molecules versus Bimolecular Mechanisms in Waterâ€“Oxidation Catalysis (WOC) by Cp*Ir Based Complexes. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2093-2100.	1.0	4
9705	Cellulose nanofibrils enable flower-like BiOCl for high-performance photocatalysis under visible-light irradiation. <i>Applied Surface Science</i> , 2019, 464, 606-615.	3.1	63
9706	TiO <sub>2</sub> /CuS heterostructure nanowire array photoanodes toward water oxidation: The role of CuS. <i>Applied Surface Science</i> , 2019, 463, 829-837.	3.1	37
9707	Investigation on the surface modification of TiO <sub>2</sub> nanohexagon arrays based photoanode with SnO <sub>2</sub> nanoparticles for highly-efficient dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2019, 109, 21-28.	2.7	17
9708	A simple strategy to increase the interfacial adhesion between TiO <sub>2</sub> nanotube layer and Ti substrate. <i>Journal of Alloys and Compounds</i> , 2019, 772, 173-177.	2.8	5
9709	Barriers for interfacial back-electron transfer: A comparison between TiO <sub>2</sub> and SnO <sub>2</sub> /TiO <sub>2</sub> core/shell structures. <i>Journal of Chemical Physics</i> , 2019, 150, 041719.	1.2	11
9710	Effect of TiCl <sub>4</sub> -based TiO <sub>2</sub> compact and blocking layers on efficiency of dye-sensitized solar cells. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 459-466.	0.8	6
9711	Moisture-enabled electricity generation from gradient polyoxometalates-modified sponge-like graphene oxide monolith. <i>Journal of Materials Science</i> , 2019, 54, 4831-4841.	1.7	19
9712	Soft-Templated Tellurium-Doped Mesoporous Carbon as a Pt-Free Electrocatalyst for High-Performance Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2093-2102.	4.0	37
9713	Aerosol synthesis and luminescent properties of CaAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> , Nd <sup>3+</sup> down-conversion phosphor particles for enhanced light harvesting of dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 178, 173-180.	2.9	23
9714	Fabrication and comparison of dye-sensitized solar cells by using TiO <sub>2</sub> and ZnO as photo electrode. <i>Optik</i> , 2019, 182, 175-180.	1.4	15
9715	Adsorption of Native Amino Acids on Nanocrystalline TiO <sub>2</sub> : Physical Chemistry, QSPR, and Theoretical Modeling. <i>Langmuir</i> , 2019, 35, 538-550.	1.6	28
9716	Photoelectrochemical, photocatalytic and photochromic performance of rGO-TiO <sub>2</sub> WO <sub>3</sub> composites. <i>Materials Chemistry and Physics</i> , 2019, 224, 217-228.	2.0	22
9717	Fuzzy Logic based hybrid type control implementation of a heaving wave energy converter. <i>Energy</i> , 2019, 170, 1202-1214.	4.5	21
9718	Highly exposed ruthenium-based electrocatalysts from bimetallic metal-organic frameworks for overall water splitting. <i>Nano Energy</i> , 2019, 58, 1-10.	8.2	181
9719	Energy diagram analysis of photoelectrochemical water splitting process. <i>Nano Energy</i> , 2019, 57, 660-669.	8.2	14
9720	Hollowsphere Nanoheterojunction of g-C <sub>3</sub> N <sub>4</sub> @TiO <sub>2</sub> with High Visible Light Photocatalytic Property. <i>Langmuir</i> , 2019, 35, 779-786.	1.6	70
9721	Electronic and optical properties of pristine, N- and S-doped water-covered TiO <sub>2</sub> nanotube surfaces. <i>Journal of Chemical Physics</i> , 2019, 150, 041714.	1.2	11



#	ARTICLE	IF	CITATIONS
9722	Dual morphology titanium dioxide for dye sensitized solar cells. <i>Ceramics International</i> , 2019, 45, 7268-7277.	2.3	19
9723	Elucidation of the structural and charge separation properties of titanium-doped hematite films deposited by electrospray method for photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2019, 297, 784-793.	2.6	17
9724	Atomic Layer Deposition of Space-Efficient SnO <sub>2</sub> Underlayers for BiVO <sub>4</sub> Host-Guest Architectures for Photoassisted Water Splitting. <i>ChemSusChem</i> , 2019, 12, 1916-1924.	3.6	10
9725	Switching on efficient photocatalytic water oxidation reactions over CaNbO <sub>2</sub> N by Mg modifications under visible light illumination. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 10-19.	10.8	22
9726	WO <sub>3</sub> /BiVO <sub>4</sub> Type-II Heterojunction Arrays Decorated with Oxygen-Deficient ZnO Passivation Layer: A Highly Efficient and Stable Photoanode. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 889-897.	4.0	86
9727	Influence of Electron Injection Rate in Triphenylamine Based Dye for Dye-Sensitized Solar Cells: A First Principle Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 1247-1259.	1.4	6
9728	Advances in Solar Energy: Solar Cells and Their Applications. <i>Energy, Environment, and Sustainability</i> , 2019, , 75-127.	0.6	1
9729	Dye-Sensitized Solar Cells as Potential Candidate for Indoor/Diffused Light Harvesting Applications: From BIPV to Self-powered IoTs. <i>Energy, Environment, and Sustainability</i> , 2019, , 281-316.	0.6	20
9730	Current Trends and Future Roadmap for Solar Fuels. <i>Energy, Environment, and Sustainability</i> , 2019, , 445-484.	0.6	0
9731	Effect of Mesoporous TiO <sub>2</sub> Thicknesses on the Performance of Solid-State Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 2019, 48, 696-704.	1.0	7
9732	Charge compensation doping to improve the photocatalytic and photoelectrochemical activities of Ta <sub>3</sub> N <sub>5</sub> : A theoretical study. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 502-510.	10.8	24
9733	Performance of chitosan based polymer electrolyte for natural dye sensitized solar cell. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 630-634.	1.3	24
9734	Surface Engineering of Nanomaterials for Photo-Electrochemical Water Splitting. <i>Small</i> , 2019, 15, e1803746.	5.2	72
9735	Understanding the Roles of Oxygen Vacancies in Hematite-Based Photoelectrochemical Processes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1030-1034.	7.2	268
9736	Effects of Fe doping on the photoelectrochemical properties of CuO photoelectrodes. <i>Composites Part B: Engineering</i> , 2019, 163, 59-66.	5.9	24
9737	Understanding the Roles of Oxygen Vacancies in Hematite-Based Photoelectrochemical Processes. <i>Angewandte Chemie</i> , 2019, 131, 1042-1046.	1.6	89
9738	Metal-Organic Frameworks in Dye-Sensitized Solar Cells. <i>Energy, Environment, and Sustainability</i> , 2019, , 175-219.	0.6	8
9739	Novel etched iron oxide mediated synthesis of 3D tremella-like mesoporous Fe/N co-doped graphene composite as a highly efficient platinum-free counter electrode in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2019, 296, 165-173.	2.6	13

#	ARTICLE	IF	CITATIONS
9740	Boosting photo charge carrier transport properties of perovskite BaSnO <sub>3</sub> photoanodes by Sr doping for enhanced DSSCs performance. <i>Electrochimica Acta</i> , 2019, 296, 771-782.	2.6	33
9741	Solution-Processed Metal Oxide Nanocrystals as Carrier Transport Layers in Organic and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1804660.	7.8	105
9742	Characteristics of ZnO@SnO <sub>2</sub> Composite Nanofibers as a Photoanode in Dye-Sensitized Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 643-653.	1.8	35
9743	Hydrothermal growth of a composite TiO <sub>2</sub> hollow spheres/TiO <sub>2</sub> nanorods powder and its application in high performance dye-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 143-150.	1.9	17
9744	Understanding photoresponsive catechol-based polyoxotitanate molecules: A combined experimental and first principles investigation. <i>Chemical Physics Letters</i> , 2019, 715, 217-221.	1.2	1
9745	A review of three-dimensional graphene-based materials: Synthesis and applications to energy conversion/storage and environment. <i>Carbon</i> , 2019, 143, 610-640.	5.4	175
9746	Seamless tungsten disulfide-tungsten heterojunction with abundant exposed active sites for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 320-326.	10.8	33
9747	Modified Nanopillar Arrays for Highly Stable and Efficient Photoelectrochemical Water Splitting. <i>Global Challenges</i> , 2019, 3, 1800027.	1.8	5
9748	Hierarchical rutile/anatase TiO <sub>2</sub> nanorod/nanoflower thin film: Synthesis and characterizations. <i>Materials Science in Semiconductor Processing</i> , 2019, 93, 252-259.	1.9	18
9749	Finite element simulation of perovskite solar cell: A study on efficiency improvement based on structural and material modification. <i>Solar Energy</i> , 2019, 179, 298-306.	2.9	60
9750	Unclogging electron-transporting channels via self-assembly for improving light harvesting and stability of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2019, 299, 518-530.	2.6	10
9751	Mixed-metal organic framework-coated ZnO nanowires array for efficient photoelectrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2446-2453.	3.8	44
9752	Stable Molecular Surface Modification of Nanostructured, Mesoporous Metal Oxide Photoanodes by Silane and Click Chemistry. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4560-4567.	4.0	18
9753	Structure and electrochromism of two-dimensional octahedral molecular sieve h <sup>TM</sup> -WO <sub>3</sub> . <i>Nature Communications</i> , 2019, 10, 327.	5.8	88
9754	Tailored Assembly of Molecular Water Oxidation Catalysts on Photoelectrodes for Artificial Photosynthesis. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2040-2057.	1.0	28
9755	Laser-induced crystalline phase transition from rutile to anatase of niobium doped TiO <sub>2</sub> . <i>Current Applied Physics</i> , 2019, 19, 351-355.	1.1	14
9756	Modulated anodization synthesis of Sn-doped iron oxide with enhanced solar water splitting performance. <i>Materials Today Chemistry</i> , 2019, 12, 7-15.	1.7	12
9757	Effect of structural and Eu <sup>3+</sup> amount in TiO <sub>2</sub> semiconductor material on downconversion photoluminescence properties. <i>Optical Materials</i> , 2019, 88, 522-533.	1.7	7

#	ARTICLE	IF	CITATIONS
9758	Ameliorating the photovoltaic conversion efficiency of ZnO nanorod based dye-sensitized solar cells by strontium doping. Superlattices and Microstructures, 2019, 128, 14-22.	1.4	21
9759	Origins and Control of Optical Absorption in a Nondilute Oxide Solid Solution: Sr(Ti,Fe)O <sub>3</sub> Perovskite Case Study. Chemistry of Materials, 2019, 31, 1030-1041.	3.2	17
9760	Efficient Photoelectrochemical Hydrogen Evolution Using Pseudocapacitive NiOx/Si Junction with Misaligned Energy Levels. Journal of Physical Chemistry C, 2019, 123, 1660-1668.	1.5	8
9761	Quantum dot activated indium gallium nitride on silicon as photoanode for solar hydrogen generation. Communications Chemistry, 2019, 2, .	2.0	22
9762	Multilayered WO <sub>3</sub> Nanoplatelets for Efficient Photoelectrochemical Water Splitting: The Role of the Annealing Ramp. ACS Applied Energy Materials, 2019, 2, 1040-1050.	2.5	21
9763	Design, Electron Transfer Process, and Opto-Electronic Property of Solar Cell Using Triphenylamine-Based D-π-A Architectures. Materials, 2019, 12, 193.	1.3	17
9764	Theoretical insights on the rigidified dithiophene effects on the performance of near-infrared cis-squaraine-based dye-sensitized solar cells with panchromatic absorption. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 369, 150-158.	2.0	13
9765	Synthesis of reduced graphene oxide/macrocyclic ytterbium complex nanocomposites and their application in the counter electrodes of dye-sensitized solar cells. Organic Electronics, 2019, 64, 166-175.	1.4	14
9766	Two-dimensional SnS <sub>2</sub> nanosheets arrays as photoelectrode by low temperature CVD method for efficient photoelectrochemical water splitting. Applied Surface Science, 2019, 467-468, 698-707.	3.1	32
9767	Addressing fundamental experimental aspects of photocatalysis studies. Journal of Catalysis, 2019, 370, 480-484.	3.1	30
9768	Effect of plasma power on the semiconducting behavior of low-frequency PECVD TiO <sub>2</sub> and nitrogen-doped TiO <sub>2</sub> anodic thin coatings: photo-electrochemical studies in a single compartment cell for hydrogen generation by solar water splitting. Journal of Applied Electrochemistry, 2019, 49, 135-150.	1.5	8
9769	High energy 120 MeV Ti <sup>9+</sup> ion beam induced modifications in optical, structural and surface morphological properties of titanium dioxide thin films. Vacuum, 2019, 166, 323-334.	1.6	20
9770	Chalcogenide-capped triiron clusters [Fe <sub>3</sub> (CO) <sub>9</sub> ( $\eta^3$ -E) <sub>2</sub> ], [Fe <sub>3</sub> (CO) <sub>7</sub> ( $\eta^3$ -CO)( $\eta^3$ -E)( $\eta^4$ -dppm)] and [Fe <sub>3</sub> (CO) <sub>7</sub> ( $\eta^3$ -E) <sub>2</sub> ( $\eta^4$ -dppm)] (E = S, Se) as proton-reduction catalysts. Journal of Organometallic Chemistry, 2019, 880, 213-222.	0.8	6
9771	Iron oxide nanostructures for photoelectrochemical applications: Effect of applied potential during Fe anodization. Journal of Industrial and Engineering Chemistry, 2019, 70, 234-242.	2.9	13
9772	Efficient degradation of rhodamine B with sustainable electricity generation in a photocatalytic fuel cell using visible light Ag <sub>3</sub> PO <sub>4</sub> /Fe/GTiP photoanode and ZnIn <sub>2</sub> S <sub>4</sub> photocathode. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 137-147.	2.7	21
9773	Transport of photo-generated electrons and holes in TiO <sub>2</sub> /CdS/CdSe core-shell nanorod structure toward high performance photoelectrochemical cell electrode. Electrochimica Acta, 2019, 295, 710-718.	2.6	26
9774	Facile synthesis of new-type MnOOH/NiAl-layered double hydroxide nanocomposite for high-performance supercapacitor. Journal of Alloys and Compounds, 2019, 777, 749-758.	2.8	52
9775	Improved electrocatalytic activity of electrodeposited Ni <sub>3</sub> S <sub>4</sub> counter electrodes for dye- and quantum dot-sensitized solar cells. Journal of Industrial and Engineering Chemistry, 2019, 70, 322-329.	2.9	18

#	ARTICLE	IF	CITATIONS
9776	Bandgap tunable Zn <sub>3</sub> -3Mg <sub>3</sub> N <sub>2</sub> alloy for earth-abundant solar absorber. <i>Materials Letters</i> , 2019, 236, 649-652.	1.3	7
9777	Photosensitizing materials and platforms for light-triggered modulation of Alzheimer's $\beta$ -amyloid self-assembly. <i>Biomaterials</i> , 2019, 190-191, 121-132.	5.7	62
9778	Sn doped $\beta$ -Fe <sub>2</sub> O <sub>3</sub> (Sn=0,10,20,30 wt%) photoanodes for photoelectrochemical water splitting applications. <i>Renewable Energy</i> , 2019, 133, 566-574.	4.3	57
9779	Theoretical study of high-efficiency organic dyes with the introduction of different auxiliary heterocyclic acceptors based on IQ1 toward dye-sensitized solar cells. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 86, 170-178.	1.3	19
9780	Suppression of poisoning of photocathode catalysts in photoelectrochemical cells for highly stable sunlight-driven overall water splitting. <i>Journal of Chemical Physics</i> , 2019, 150, 041713.	1.2	11
9781	Highly Efficient NiFe Nanoparticle Decorated Si Photoanode for Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , 2019, 31, 171-178.	3.2	34
9782	Understanding Interactions between Lead Iodide Perovskite Surfaces and Lithium Polysulfide toward New-Generation Integrated Solar-Powered Lithium Battery: An ab Initio Investigation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 82-90.	1.5	10
9783	Optoelectrical characterization of different fabricated donor substituted benzothiazole based sensitizers for efficient DSSCs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 372, 35-41.	2.0	13
9784	Charge Transfer from Upconverting Nanocrystals to Semiconducting Electrodes: Optimizing Thermodynamic Outputs by Electronic Energy Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 463-471.	6.6	19
9785	Dye-sensitized solar cells based on natural and artificial phycobiliproteins to capture low light underwater. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1182-1191.	3.8	22
9786	Atomic layer deposition of cobalt phosphate thin films for the oxygen evolution reaction. <i>Electrochemistry Communications</i> , 2019, 98, 73-77.	2.3	19
9787	Peculiarities of band structure of one-dimensional photonic crystals. <i>Optik</i> , 2019, 180, 745-753.	1.4	3
9788	Performance Enhancement of Graphene Photodetectors via In Situ Preparation of TiO <sub>2</sub> on Graphene Channels. <i>Advanced Materials Technologies</i> , 2019, 4, 1800548.	3.0	11
9789	Enhanced photoelectrochemical performance and stability of Si nanowire photocathode with deposition of hematite and carbon. <i>Applied Surface Science</i> , 2019, 471, 528-536.	3.1	13
9790	An efficient tandem photoelectrochemical cell composed of FeOOH/TiO <sub>2</sub> /BiVO <sub>4</sub> and Cu <sub>2</sub> O for self-driven solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 594-604.	3.8	41
9791	Enhanced Oxygen Evolution Reaction Activity of Nanoporous SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> /IrO <sub>2</sub> Thin Film Composite Electrodes with Ultralow Noble Metal Loading. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801432.	1.9	18
9792	Ab initio simulations of liquid electrolytes for energy conversion and storage. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25795.	1.0	14
9793	Natural pigments in dye-sensitized solar cell (DSSC): a DFT-TDDFT study. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 795-805.	1.2	36

#	ARTICLE	IF	CITATIONS
9794	Colloidal synthesis of CuInS <sub>2</sub> nanoparticles: Crystal phase design and thin film fabrication for photoelectrochemical solar cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18712-18723.	3.8	16
9795	Sustainable technology for energy and environmental benign building design. <i>Journal of Building Engineering</i> , 2019, 22, 130-139.	1.6	27
9796	Construction of dye-sensitized solar cells using wet chemical route synthesized MoSe <sub>2</sub> counter electrode. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 379-386.	2.9	18
9797	The effect of annealing regime and electrodeposition time on morphology and photoelectrochemical performance of hematite converted from nanosheet $\beta$ -FeOOH. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 369, 8-15.	2.0	9
9798	<i>Advanced Building Design.</i> , 2019, , 137-230.		3
9799	On improving the spectral response of organic dyes sensitizer based on $\beta$ -cyclodextrin inclusion complex. <i>Optik</i> , 2019, 178, 197-209.	1.4	6
9800	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. <i>Advanced Materials</i> , 2019, 31, e1801993.	11.1	313
9801	Efficiency improvement of TiO <sub>2</sub> nanowire arrays based dye-sensitized solar cells through further enhancing the specific surface area. <i>Journal of Crystal Growth</i> , 2019, 505, 62-68.	0.7	13
9802	N-doped graphene /carbon hybrid aerogels for efficient solar steam generation. <i>Carbon</i> , 2019, 142, 13-19.	5.4	146
9803	Novel dye-sensitized solar cell architecture using TiO <sub>2</sub> -coated Ag nanowires array as photoanode. <i>Rare Metals</i> , 2019, 38, 316-320.	3.6	11
9804	Red shifting of absorption maxima of phenothiazine based dyes by incorporating electron-deficient thiadiazole derivatives as $\pi$ -spacer. <i>Arabian Journal of Chemistry</i> , 2019, 12, 1447-1453.	2.3	89
9805	Hydrogen treatment and FeOOH overlayer: Effective approaches for enhancing the photoelectrochemical water oxidation performance of bismuth vanadate thin films. <i>Catalysis Today</i> , 2019, 321-322, 87-93.	2.2	7
9806	Ternary transition titanium-niobium trisulfide as photoanode for assisted water splitting. <i>Catalysis Today</i> , 2019, 321-322, 107-112.	2.2	11
9807	Electrochemical water oxidation on WO <sub>3</sub> surfaces: A density functional theory study. <i>Catalysis Today</i> , 2019, 321-322, 94-99.	2.2	55
9808	Effect of annealing atmosphere on the performance of TiO <sub>2</sub> nanorod arrays in photoelectrochemical water splitting. <i>Catalysis Today</i> , 2019, 330, 189-194.	2.2	43
9809	Recent Development of Ni/Fe-Based Micro/Nanostructures toward Photo/Electrochemical Water Oxidation. <i>Advanced Energy Materials</i> , 2020, 10, 1900954.	10.2	358
9810	Photocatalytic hydrogen production with purification of wastewater from nuclear power plant under irradiation of liquid phase plasma. <i>Chemical Engineering Journal</i> , 2020, 386, 121552.	6.6	7
9811	TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> photoanodes for solar water oxidation prepared via electrodeposition of amorphous precursors. <i>Materials Research Bulletin</i> , 2020, 121, 110623.	2.7	17

#	ARTICLE	IF	CITATIONS
9812	Visible-light-driven photocatalysis for methylene blue degradation and hydrogen evolution reaction: a case of black TiO <sub>2</sub> nanotube arrays. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 849-857.	1.1	12
9813	Ternary Bi <sub>2</sub> S <sub>3</sub> /MoS <sub>2</sub> /TiO <sub>2</sub> with double Z-scheme configuration as high performance photocatalyst. <i>Applied Surface Science</i> , 2020, 499, 143938.	3.1	89
9814	Improvement of an Al <sub>2</sub> O <sub>3</sub> /CuO heterostructure photoelectrode by controlling the Al <sub>2</sub> O <sub>3</sub> precursor concentration. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 63-70.	2.9	5
9815	Photoelectrochemical sewage treatment by a multifunctional g-C <sub>3</sub> N <sub>4</sub> /Ag/AgCl/BiVO <sub>4</sub> photoanode for the simultaneous degradation of emerging pollutants and hydrogen production, and the disinfection of <i>E. Coli</i> . <i>Water Research</i> , 2020, 168, 115166.	5.3	58
9816	rGO decorated BiVO <sub>4</sub> /Cu <sub>2</sub> O n-n heterojunction photoanode for photoelectrochemical water splitting. <i>Renewable Energy</i> , 2020, 148, 380-387.	4.3	34
9817	Flexible TiO <sub>2</sub> /Au thin films with greatly enhanced photocurrents for photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152471.	2.8	13
9818	Combinatorial Search for New Solar Water Splitting Photoanode Materials in the Thin-Film System Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /WO <sub>3</sub> . <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 867-885.	1.4	11
9819	Application of carbon dots in dye-sensitized solar cells: A review. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48443.	1.3	81
9820	Polyelectrolyte-doped SnO <sub>2</sub> as a Tunable Electron Transport Layer for High-efficiency and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900336.	3.1	56
9821	Cubic SiC Photoanode Coupling with Ni:FeOOH Oxygen Evolution Cocatalyst for Sustainable Photoelectrochemical Water Oxidation. <i>Solar Rrl</i> , 2020, 4, 1900364.	3.1	16
9822	Morphology luminescence and photovoltaic performance of lanthanide-doped CaWO <sub>4</sub> nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 162-168.	5.0	15
9823	Hybrid Plasmonic Aerogel Materials as Optical Superheaters with Engineered Resonances. <i>Angewandte Chemie</i> , 2020, 132, 1713-1719.	1.6	9
9824	Recent Progress and Development in Inorganic Halide Perovskite Quantum Dots for Photoelectrochemical Applications. <i>Small</i> , 2020, 16, e1903398.	5.2	120
9826	Photo-induced water oxidation via cascade charge transfer on nanostructured BiVO <sub>4</sub> /TiO <sub>2</sub> modified with dye and co-catalyst molecules. <i>Inorganica Chimica Acta</i> , 2020, 500, 119223.	1.2	7
9828	Near-infrared-II photodetection realized by introducing organic-inorganic charge-transfer-complex photosensitive material into pentacene phototransistor. <i>Organic Electronics</i> , 2020, 77, 105500.	1.4	4
9829	Prickly pear fruit extract as photosensitizer for dye-sensitized solar cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117686.	2.0	25
9830	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. <i>Chemical Reviews</i> , 2020, 120, 919-985.	23.0	1,605
9831	Photoexcited charge carrier behaviors in solar energy conversion systems from theoretical simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020, 10, e1441.	6.2	7

#	ARTICLE	IF	CITATIONS
9832	Ni(OH) <sub>2</sub> -Cu <sub>x</sub> O-TiO <sub>2</sub> nanocomposite for the enhanced H <sub>2</sub> production under solar light: The mechanistic pathway. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7552-7561.	3.8	9
9833	Controllable Synthesis of NiS/rGO Hybrid Composite: An Excellent Counter Electrode for Dye Sensitized Solar Cell. <i>Journal of Cluster Science</i> , 2020, 31, 91-98.	1.7	13
9834	Designing efficient TiO <sub>2</sub> -based photoelectrocatalysis systems for chemical engineering and sensing. <i>Chemical Engineering Journal</i> , 2020, 381, 122605.	6.6	81
9835	Photo-Electrochemical Solar-to-Fuel Energy Conversion by Hematite-Based Photo-Anodes – The Role of 1D Nanostructuring. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 615-631.	1.4	8
9836	Graphene and silicene nanodomains in a ultra-thin SiC layer for water splitting and hydrogen storage. A first principle study. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5155-5164.	3.8	14
9837	Nitrogen-Doped Carbon Nanomaterials: Synthesis, Characteristics and Applications. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2282-2293.	1.7	100
9838	Computer modeling of semiconductor nanotubes for water splitting. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 88-95.	2.5	3
9839	Recent advances in the utilization of copper sulfide compounds for electrochemical CO <sub>2</sub> reduction. <i>Nano Materials Science</i> , 2020, 2, 235-247.	3.9	45
9840	Fabrication of optimized eco-friendly dye-sensitized solar cells by extracting pigments from low-cost native wild plants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112191.	2.0	19
9841	Biochemical and histopathological impacts of rutile and anatase (TiO <sub>2</sub> forms) in <i>Mytilus galloprovincialis</i> . <i>Science of the Total Environment</i> , 2020, 719, 134886.	3.9	20
9843	Novel cobalt redox materials admitted in natrosol polymer with a thiophene based additive as a gel polymer electrolyte to tune up the efficiency of dye sensitized solar cells. <i>Electrochimica Acta</i> , 2020, 329, 135169.	2.6	36
9844	Ultrafast Condensation of Carbon Nitride on Electrodes with Exceptional Boosted Photocurrent and Electrochemiluminescence. <i>Angewandte Chemie</i> , 2020, 132, 1155-1159.	1.6	35
9845	Ultrafast Condensation of Carbon Nitride on Electrodes with Exceptional Boosted Photocurrent and Electrochemiluminescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1139-1143.	7.2	129
9846	Photo-driven water splitting photoelectrochemical cells by tandem organic dye sensitized solar cells with I <sup>3+</sup> /I <sup>2+</sup> as redox mediator. <i>Science China Chemistry</i> , 2020, 63, 228-236.	4.2	2
9847	Hybrid Plasmonic Aerogel Materials as Optical Superheaters with Engineered Resonances. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1696-1702.	7.2	13
9848	Cation Mono- and Co-Doped Anatase TiO <sub>2</sub> Nanotubes: An Ab Initio Investigation of Electronic and Optical Properties. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900217.	0.7	15
9849	Highly-efficient overall water splitting in 2D Janus group-III chalcogenide multilayers: the roles of intrinsic electric field and vacancy defects. <i>Science Bulletin</i> , 2020, 65, 27-34.	4.3	54
9850	Synthesis and photoelectrochemical water oxidation of (Y, Cu) codoped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanostructure photoanode. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152349.	2.8	73

#	ARTICLE	IF	CITATIONS
9851	Modulating water oxidation kinetics utilizing h-BN quantum dots as an efficient hole extractor on fluorine doped hematite photoanode. <i>Journal of Power Sources</i> , 2020, 445, 227341.	4.0	28
9852	Porphyrim sensitizers involving a fluorine-substituted benzothiadiazole as auxiliary acceptor and thiophene as $\pi$ -bridge for use in dye-sensitized solar cells (DSSCs). <i>Dyes and Pigments</i> , 2020, 174, 107984.	2.0	22
9853	Dye-sensitization enhances photoelectrochemical performance of halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> photoanode in aqueous solution. <i>Dyes and Pigments</i> , 2020, 173, 108006.	2.0	7
9854	Tuning optoelectronic properties of triphenylamine based dyes through variation of $\pi$ -conjugated units and anchoring groups: A DFT/TD-DFT investigation. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 94, 107480.	1.3	31
9855	Biomimic Vein-Like Transparent Conducting Electrodes with Low Sheet Resistance and Metal Consumption. <i>Nano-Micro Letters</i> , 2020, 12, 19.	14.4	22
9856	Evaluation of the heterostructure ITO/BiVO <sub>4</sub> under blue monochromatic light irradiation for photoelectrochemical application. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2833-2844.	1.1	4
9857	Techno-economic evaluation of titanium catalyst production cycle from ilmenite purer (a case study) <i>Tj ETQq0 0 0 r gBT /Overlock 10 Tf</i>	1.9	0
9858	Understanding the Enhancement of the Catalytic Properties of Goethite by Transition Metal Doping: Critical Role of O* Formation Energy Relative to OH* and OOH*. <i>ACS Applied Energy Materials</i> , 2020, 3, 1634-1643.	2.5	17
9859	Increasing solar light efficiency by engineering cell structures with modified Ti foil and specific concentrations of electrolyte in liquid dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2020, 334, 135631.	2.6	11
9860	The effect of encapsulation of lithium atom on supramolecular triad complexes performance in solar cell by using theoretical approach. <i>Adsorption</i> , 2020, 26, 471-489.	1.4	11
9861	Effect of the applied potential condition on the photocatalytic properties of Fe <sub>2</sub> O <sub>3</sub>   WO <sub>3</sub> heterojunction films. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 2851-2862.	1.9	18
9862	Enhanced photoelectrochemical performance of atomic layer deposited Hf-doped ZnO. <i>Surface and Coatings Technology</i> , 2020, 385, 125352.	2.2	20
9863	Wet Environment Effects for Ethanol and Water Adsorption on Anatase TiO <sub>2</sub> (101) Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2406-2419.	1.5	24
9864	Recent Advances of Metal-Oxide Photoanodes: Engineering of Charge Separation and Transportation toward Efficient Solar Water Splitting. <i>Solar Rrl</i> , 2020, 4, 1900509.	3.1	45
9865	Photodeposition fabrication of hierarchical layered Co-doped Ni oxyhydroxide (Ni <sub>x</sub> Co <sub>1-x</sub> OOH) catalysts with enhanced electrocatalytic performance for oxygen evolution reaction. <i>Nano Research</i> , 2020, 13, 246-254.	5.8	28
9866	Decoupled Photoelectrochemical Water Splitting System for Centralized Hydrogen Production. <i>Joule</i> , 2020, 4, 448-471.	11.7	91
9867	Theoretical insights into the effect of pristine, doped and hole graphene on the overall performance of dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 157-168.	3.0	9
9868	Merging photochemistry with electrochemistry in organic synthesis. <i>Organic Chemistry Frontiers</i> , 2020, 7, 131-135.	2.3	111



#	ARTICLE	IF	CITATIONS
9869	Diversity-oriented approach to functional thiophene dyes by Suzuki coupling-lithiation one-pot sequences. <i>Organic Chemistry Frontiers</i> , 2020, 7, 329-339.	2.3	8
9870	Designed structure of bilayer TiO <sub>2</sub> /Nb <sub>2</sub> O <sub>5</sub> photoanode for increasing the performance of dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2298-2307.	1.1	9
9871	Design and Functions of Macromolecular Electron-Reservoir Complexes and Devices. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 111-120.	1.9	4
9872	Room-temperature photodeposition of conformal transition metal based cocatalysts on BiVO <sub>4</sub> for enhanced photoelectrochemical water splitting. <i>Nano Research</i> , 2020, 13, 231-237.	5.8	15
9873	Surface passivation of highly stable TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> photocatalyst by atomic layer deposited-Al <sub>2</sub> O <sub>3</sub> . <i>Applied Surface Science</i> , 2020, 507, 145128.	3.1	9
9874	Applications of porphyrins in emerging energy conversion technologies. <i>Coordination Chemistry Reviews</i> , 2020, 407, 213157.	9.5	127
9875	w-ZnO nanostructures with distinct morphologies: Properties and integration into dye sensitized solar cells. <i>Ceramics International</i> , 2020, 46, 8174-8184.	2.3	10
9876	Effect of surface modification via sol-gel spin coating of ZnO nanoparticles on the performance of WO <sub>3</sub> photoanode based dye sensitized solar cells. <i>Optik</i> , 2020, 212, 164142.	1.4	15
9877	Non-oxide semiconductors for artificial photosynthesis: Progress on photoelectrochemical water splitting and carbon dioxide reduction. <i>Nano Today</i> , 2020, 30, 100830.	6.2	76
9878	Two-dimensional heterojunction SnS <sub>2</sub> /SnO <sub>2</sub> photoanode with excellent photoresponse up to near infrared region. <i>Solar Energy Materials and Solar Cells</i> , 2020, 207, 110342.	3.0	13
9879	Suitability of Different Sr <sub>2</sub> TaO <sub>3</sub> N Surface Orientations for Photocatalytic Water Oxidation. <i>Chemistry of Materials</i> , 2020, 32, 75-84.	3.2	9
9880	Modifying Cytochrome <i>c</i> Maturation Can Increase the Bioelectronic Performance of Engineered <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 115-124.	1.9	45
9881	A theoretical investigation on promising acceptor groups for POM-based dyes: from electronic structure to photovoltaic conversion efficiency. <i>Journal of Materials Chemistry C</i> , 2020, 8, 219-227.	2.7	11
9882	Molecular design of novel indacenodithiophene-based organic dyes for efficient dye-sensitized solar cells applications. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26147.	1.0	7
9883	A facile hydrothermal approach for the deposition of CaIn <sub>2</sub> S <sub>4</sub> hierarchical nanosheet films for photocatalytic application. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153545.	2.8	5
9884	ITO regulated high-performance n-Si/ITO/Fe <sub>2</sub> O <sub>3</sub> Z-scheme heterostructure towards photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2020, 381, 501-507.	3.1	20
9885	A heterostructured catalyst composed of poly-2,6-diaminopyridine and TiO <sub>2</sub> microspheres used as a photoanode for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 216-229.	3.8	7
9887	Novel BP/BiOBr S-scheme nano-heterojunction for enhanced visible-light photocatalytic tetracycline removal and oxygen evolution activity. <i>Journal of Hazardous Materials</i> , 2020, 387, 121690.	6.5	354

#	ARTICLE	IF	CITATIONS
9888	A photoelectrochemical supercapacitor based on a single BiVO <sub>4</sub> -RGO bilayer photocapacitive electrode. <i>Electrochimica Acta</i> , 2020, 329, 135170.	2.6	22
9889	Facile synthesis of hollow urchin-like Nb <sub>2</sub> O <sub>5</sub> nanostructures and their performance in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 273-281.	1.2	3
9890	Microstructural characterization of black-monoclinic oxygen defective HfO <sub>2-x</sub> film formed on metal Hf plate in air. <i>Ceramics International</i> , 2020, 46, 6796-6800.	2.3	7
9891	Role of Modifying Photoanodes by Organic Titanium on Charge Collection Efficiency Enhancement in Dye-Sensitized Solar Cells. <i>Advanced Engineering Materials</i> , 2020, 22, 1901071.	1.6	8
9892	Hierarchical Nanorod-Derived Bilayer Strategy to Enhance the Photocurrent Density of Sb <sub>2</sub> Se <sub>3</sub> Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 136-145.	8.8	58
9893	Theoretical screening of high-efficiency sensitizers with D-Ï€-A framework for DSSCs by altering promising donor group. <i>Solar Energy</i> , 2020, 196, 146-156.	2.9	35
9894	A review on spectral converting nanomaterials as a photoanode layer in dye-sensitized solar cells with implementation in energy storage devices. <i>Energy Storage</i> , 2020, 2, e120.	2.3	14
9895	Hierarchical flower-like TiO <sub>2</sub> microspheres with improved dye-sensitized solar cell performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1275-1282.	1.1	2
9896	Resource recovery from wastewater by bioelectrochemical systems. , 2020, , 183-200.		1
9897	Photoelectrochemical hydrogen production at neutral pH phosphate buffer solution using TiO <sub>2</sub> passivated InAs Nanowire/p-Si heterostructure photocathode. <i>Chemical Engineering Journal</i> , 2020, 392, 123688.	6.6	23
9898	Gravity field-mediated synthesis of carbon-conjugated quantum dots with tunable defective density for enhanced triiodide reduction. <i>Nano Energy</i> , 2020, 69, 104377.	8.2	19
9899	Highly Crystallized C-Doped Nickel Oxide Nanoparticles for p-Type Dye-Sensitized Solar Cells with Record Open-Circuit Voltage Breaking 0.5 V. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 175-182.	1.8	3
9900	Hydrogen Evolution by Ni <sub>2</sub> P Catalysts Derived from Phosphine MOFs. <i>ACS Applied Energy Materials</i> , 2020, 3, 176-183.	2.5	31
9901	Design Guidelines of Insulator for Improving Stability and Performance of Nanoelectrocatalyst/Insulator/Semiconductor Photoelectrochemical Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 1046-1053.	2.5	10
9902	CuO shell as a protective layer to improve the stability of ZnO nanorods-based photoelectrode in DSSCs. <i>Applied Surface Science</i> , 2020, 507, 144510.	3.1	19
9903	Solid-State Infrared Upconversion in Perylene Diimides Followed by Direct Electron Injection. <i>ACS Energy Letters</i> , 2020, 5, 124-129.	8.8	25
9904	A leaf-branch TiO <sub>2</sub> /carbon@MOF composite for selective CO <sub>2</sub> photoreduction. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118519.	10.8	89
9905	Dye sensitized solar cells based on titanium dioxide nanoparticles synthesized by flame spray pyrolysis and hydrothermal sol-gel methods: a comparative study on photovoltaic performances. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1569-1577.	2.6	54

#	ARTICLE	IF	CITATIONS
9906	Ambipolar and Robust WSe <sub>2</sub> Field-Effect Transistors Utilizing Self-Assembled Edge Oxides. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901628.	1.9	11
9907	Enhanced photovoltaic performance of Y <sub>2</sub> O <sub>3</sub> :Ho <sup>3+</sup> /Yb <sup>3+</sup> upconversion nanophosphor based DSSC and investigation of color tunability in Ho <sup>3+</sup> /Tm <sup>3+</sup> /Yb <sup>3+</sup> tridoped Y <sub>2</sub> O <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2020, 821, 153230.	2.8	33
9908	Pure Organic Semiconductor-Based Photoelectrodes for Water Splitting. <i>Solar Rrl</i> , 2020, 4, 1900395.	3.1	31
9910	Recent Advances in Photocatalysis over Metal-Organic Frameworks-Based Materials. <i>Solar Rrl</i> , 2020, 4, 1900438.	3.1	22
9911	Prediction of photoelectric properties, especially power conversion efficiency of cells, of IQ1 and derivative dyes in high-efficiency dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 195, 82-88.	2.9	25
9912	Bioelectrocatalysis as the basis for the design of enzyme-based biofuel cells and semi-artificial biophotoelectrodes. <i>Nature Catalysis</i> , 2020, 3, 214-224.	16.1	71
9913	Nanoporous TiO <sub>2</sub> spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. <i>Progress in Materials Science</i> , 2020, 109, 100620.	16.0	100
9914	Combined statistical physics models and DFT theory to study the adsorption process of paprika dye On TiO <sub>2</sub> for dye sensitized solar cells. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1175-1188.	2.6	19
9915	Synthetische Photoelektrochemie. <i>Angewandte Chemie</i> , 2020, 132, 11828-11844.	1.6	40
9916	Synthetic Photoelectrochemistry. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11732-11747.	7.2	261
9917	Photoelectrochemical study of electrochemically synthesized CdTe thin films from acetate-anion based ionic liquid bath. <i>Electrochimica Acta</i> , 2020, 331, 135437.	2.6	10
9918	Exhaustive denitrification via chlorine oxide radical reactions for urea based on a novel photoelectrochemical cell. <i>Water Research</i> , 2020, 170, 115357.	5.3	44
9919	Photochemical and antibacterial properties of ruthenium complex of N,N'-bis(benzimidazole-2-yl-ethyl)ethylenediamine under visible light: Experimental and theoretical studies. <i>Journal of Molecular Structure</i> , 2020, 1203, 127377.	1.8	8
9920	Modulating the photocatalytic activity of Ag nanoparticles-titanate nanotubes heterojunctions through control of microwave-assisted synthesis conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112264.	2.0	12
9921	Effect of N-doped graphene on optical, electrical and electrochemical properties of hydrothermally synthesized TiO <sub>2</sub> nanocomposite. <i>Materials Today: Proceedings</i> , 2020, 26, 3390-3396.	0.9	5
9922	Tellurium-Doped, Mesoporous Carbon Nanomaterials as Transparent Metal-Free Counter Electrodes for High-Performance Bifacial Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2020, 10, 29.	1.9	18
9923	Tuning the Optical Band Gap of Semiconductor Nanocomposites—A Case Study with ZnS/Carbon. <i>Materials</i> , 2020, 13, 4162.	1.3	11
9924	Current Progress in Solid-State Electrolytes for Dye-Sensitized Solar Cells: A Mini-Review. <i>Journal of Electronic Materials</i> , 2020, 49, 7085-7097.	1.0	15

#	ARTICLE	IF	CITATIONS
9925	Silicon Photoanode Modified with Workâ€functionâ€tuned Ni@Fe<sub><i>y</i></sub>Ni<sub>1<sup>â€</sup></sub>(OH)<sub>2</sub> Coreâ€Shell Particles for Water Oxidation. ChemSusChem, 2020, 13, 6037-6044.	3.6	11
9926	Planar and Nanostructured nâ€Si/Metalâ€Oxide/WO<sub>3</sub>/BiVO<sub>4</sub> Monolithic Tandem Devices for Unassisted Solar Water Splitting. Advanced Energy and Sustainability Research, 2020, 1, 2000037.	2.8	9
9927	Toward the Intrinsic Superiority of Aligned Oneâ€Dimensional TiO 2 Nanostructures: the Role of Defect States in Electron Transport Process. ChemElectroChem, 2020, 7, 4390-4397.	1.7	4
9928	Microkinetic assessment of electrocatalytic oxygen evolution reaction over iridium oxide in unbuffered conditions. Journal of Catalysis, 2020, 391, 435-445.	3.1	52
9929	Cesium doped H3PW12O40 nanocrystalline thin films using single step hydrothermal route and its photoelectrochemical properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 18105-18119.	1.1	4
9930	Photoactive Tungsten-Oxide Nanomaterials for Water-Splitting. Nanomaterials, 2020, 10, 1871.	1.9	44
9931	Synergistic Effect of Alkyl Chain Barriers on Heteroleptic Ruthenium Dyes and Co<sup>3+/2+</sup> Complex Mediators for Reduced Charge Recombination in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2020, 124, 23013-23026.	1.5	11
9932	The role of oxygen vacancies in water splitting photoanodes. Sustainable Energy and Fuels, 2020, 4, 5916-5926.	2.5	52
9933	Reducing the surface defects of Ta<sub>3</sub>N<sub>5</sub> photoanode towards enhanced photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2020, 8, 23274-23283.	5.2	16
9934	Enhanced photoelectrochemical cell performance of Co doped ZnO nanoparticles sensitized by affordable mixed dyes as sensitizer. Inorganic and Nano-Metal Chemistry, 2020, , 1-14.	0.9	1
9935	High performance SnO2 pure photoelectrode in dye-sensitized solar cells achieved via electrophoretic technique. Solar Energy, 2020, 211, 312-323.	2.9	10
9936	Fundamentals, Applications, and Future Directions of Bioelectrocatalysis. Chemical Reviews, 2020, 120, 12903-12993.	23.0	227
9937	Chiral Induced Spin Selectivity Gives a New Twist on Spin-Control in Chemistry. Accounts of Chemical Research, 2020, 53, 2659-2667.	7.6	102
9938	Organic Chromophores Designed for Hole Injection into Wide-Band-Gap Metal Oxides for Solar Fuel Applications. Chemistry of Materials, 2020, 32, 8158-8168.	3.2	12
9939	Integrated nano-architected photocatalysts for photochemical CO<sub>2</sub> reduction. Nanoscale, 2020, 12, 23301-23332.	2.8	59
9940	A Hierarchical 3D TiO<sub>2</sub>/Ni Nanostructure as an Efficient Holeâ€Extraction and Protection Layer for GaAs Photoanodes. ChemSusChem, 2020, 13, 6028-6036.	3.6	8
9941	Influence of internal acceptor and thiophene based Ï€-spacer in D-A-Ï€-A system on photophysical and charge transport properties for efficient DSSCs: A DFT insight. Solar Energy, 2020, 209, 194-205.	2.9	46
9942	Band gap tuning of p-type al-doped tio2 thin films for gas sensing applications. Thin Solid Films, 2020, 714, 138382.	0.8	17

#	ARTICLE	IF	CITATIONS
9943	Vat Dye Safranin O- and Perylene-Based Conjugated Donor-Acceptor Polyimide as Sensitizer for Dye-Sensitized Solar Cells. <i>Energy &amp; Fuels</i> , 2020, 34, 14527-14534.	2.5	10
9944	Different Photostability of BiVO <sub>4</sub> in Near-pH-Neutral Electrolytes. <i>ACS Applied Energy Materials</i> , 2020, 3, 9523-9527.	2.5	41
9945	The role of carbon dots derived underlayer in hematite photoanodes. <i>Nanoscale</i> , 2020, 12, 20220-20229.	2.8	9
9946	Templated epitaxy of TiO <sub>2</sub> (B) on a perovskite. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	8
9947	Improved photovoltaic performance in nano TiO <sub>2</sub> based dye sensitized solar cells: Effect of TiCl <sub>4</sub> treatment and Sr doping. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 407-418.	5.0	12
9948	A scalable approach for functionalization of TiO <sub>2</sub> nanotube arrays with g-C <sub>3</sub> N <sub>4</sub> for enhanced photo-electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2020, 846, 155881.	2.8	22
9949	A novel Cu <sub>2</sub> O/Cu grid for photoelectrochemical water splitting. <i>Journal of Physics: Conference Series</i> , 2020, 1520, 012013.	0.3	0
9950	Dual-bonding interactions between MnO <sub>2</sub> cocatalyst and TiO <sub>2</sub> photoanodes for efficient solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118723.	10.8	47
9951	Optical band-gap of reduced graphene oxide/TiO <sub>2</sub> composite and performance of associated dye-sensitized solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 259, 114581.	1.7	37
9952	Improved hole extraction and durability of BiVO <sub>4</sub> photoanode for solar water splitting under extreme pH condition. <i>Chemical Engineering Journal</i> , 2020, 402, 126227.	6.6	18
9953	Gold nanoparticles decorated radio-frequency sputtered ZnFe <sub>2</sub> O <sub>4</sub> /ZnO nanostructures for photoelectrochemical applications. <i>Thin Solid Films</i> , 2020, 709, 138227.	0.8	6
9954	First-principles screening and design of C275-based organic dyes for highly efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 207, 759-766.	2.9	3
9955	Nanoporous Reduced Graphene Oxide and Polymer Composites as Efficient Counter Electrodes in Dye-Sensitized Solar Cells. <i>ACS Applied Electronic Materials</i> , 2020, 2, 626-634.	2.0	20
9956	Mo incorporated Ni nanosheet as high-efficiency co-catalyst for enhancing the photocatalytic hydrogen production of g-C <sub>3</sub> N <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18912-18921.	3.8	25
9957	Facile Synthesis of Na-Doped SnO <sub>2</sub> Nanoparticles: A Cocatalyst-Free Promising Photocatalyst for Hydrogen Generation. <i>ChemistrySelect</i> , 2020, 5, 7775-7782.	0.7	13
9958	Porous Sn <sub>3</sub> O <sub>4</sub> nanosheets on PPy hollow rod with photo-induced electrons oriented migration for enhanced visible-light hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119341.	10.8	48
9959	Unique structural advances of graphdiyne for energy applications. <i>EnergyChem</i> , 2020, 2, 100041.	10.1	48
9960	Design and simulation of perovskite solar cells based on graphene and TiO <sub>2</sub> /graphene nanocomposite as electron transport layer. <i>Solar Energy</i> , 2020, 207, 917-924.	2.9	52

#	ARTICLE	IF	CITATIONS
9961	Cobalt-Doped ZnO Nanorods Coated with Nanoscale Metal-Organic Framework Shells for Water-Splitting Photoanodes. <i>ACS Applied Nano Materials</i> , 2020, 3, 7781-7788.	2.4	29
9962	Layered Double Hydroxides in Bioinspired Nanotechnology. <i>Crystals</i> , 2020, 10, 602.	1.0	15
9963	Tri-functional molecular relay to fabricate size-controlled CoO nanoparticles and WO <sub>3</sub> photoanode for an efficient photoelectrochemical water oxidation. <i>Catalysis Science and Technology</i> , 2020, 10, 5677-5687.	2.1	10
9964	A DFT/TD-DFT study on the possible replacement of Ru(II) with Fe(II) in phthalocyanine-based dye-sensitized solar cells. <i>Structural Chemistry</i> , 2020, 31, 2301-2311.	1.0	3
9965	A review on ZnO: Fundamental properties and applications. <i>Materials Today: Proceedings</i> , 2022, 49, 3028-3035.	0.9	89
9966	Photoelectrochemical Water Splitting by In <sub>2</sub> S <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> Composite Nanopyramids. <i>ACS Applied Nano Materials</i> , 2020, 3, 11638-11649.	2.4	27
9967	Experimental Analysis of Transition Metal (Ni-V) Codoped ZnO Nanorods for Piezoelectric Accelerometer Application. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 728-735.	1.1	7
9968	Tailored self-assembled photocatalytic nanofibres for visible-light-driven hydrogen production. <i>Nature Chemistry</i> , 2020, 12, 1150-1156.	6.6	98
9969	Application of Novel Calix[4]arene Metal-free Sensitizers in Dye-sensitized Photoelectrochemical Cells for Water Splitting. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 1091-1096.	1.3	5
9970	Exploring the effect of $\pi$ -spacers on D-D-A based triphenylamine dyes for dye sensitized solar cell applications – Computational approach. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
9971	Synthesis, Optical, Thermal and Structural Characteristics of Novel Thermocleavable Polymers Based on Phthalate Esters. <i>Polymers</i> , 2020, 12, 2791.	2.0	5
9972	ZnO nanostructured materials for emerging solar cell applications. <i>RSC Advances</i> , 2020, 10, 42838-42859.	1.7	173
9973	Interfacial Field-Driven Proton-Coupled Electron Transfer at Graphite-Conjugated Organic Acids. <i>Journal of the American Chemical Society</i> , 2020, 142, 20855-20864.	6.6	37
9974	Theoretical study of organic sensitizers based on 2, 6-diphenyl-4H-pyranilidene/1, 3, 4-oxadiazole for dye-sensitized solar cells. <i>Journal of Molecular Modeling</i> , 2020, 26, 346.	0.8	10
9975	Enhancing Solar Water Splitting of Textured BiVO <sub>4</sub> by Dual Effect of a Plasmonic Silver Nanoshell: Plasmon-Induced Light Absorption and Enhanced Hole Transport. <i>ACS Applied Energy Materials</i> , 2020, 3, 11886-11892.	2.5	6
9976	Functionalized Thermoplastic Polyurethane Gel Electrolytes for Cosensitized TiO <sub>2</sub> /CdS/CdSe Photoanode Solar Cells with High Efficiency. <i>Energy &amp; Fuels</i> , 2020, 34, 16847-16857.	2.5	16
9977	Dry Hydrogen Production in a Tandem Critical Raw Material-Free Water Photoelectrolysis Cell Using a Hydrophobic Gas-Diffusion Backing Layer. <i>Catalysts</i> , 2020, 10, 1319.	1.6	9
9978	Two Hybrid Polymeric Iodoargentates Incorporating Aromatic N-Heterocycle Derivatives as Electron Acceptors. <i>Inorganic Chemistry</i> , 2020, 59, 16814-16818.	1.9	12

#	ARTICLE	IF	CITATIONS
9979	Role of Alkali Metal in BiVO <sub>4</sub> Crystal Structure for Enhancing Charge Separation and Diffusion Length for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 52808-52818.	4.0	28
9980	Conducting Polymers for Optoelectronic Devices and Organic Solar Cells: A Review. Polymers, 2020, 12, 2627.	2.0	127
9981	Comparison of Eosin yellowish dye-sensitized and CdS-sensitized TiO <sub>2</sub> nanomaterial-based solid-state solar cells. Journal of Solid State Electrochemistry, 2020, 24, 2499-2509.	1.2	6
9982	Why Do We Use the Materials and Operating Conditions We Use for Heterogeneous (Photo)Electrochemical Water Splitting?. ACS Catalysis, 2020, 10, 11177-11234.	5.5	89
9983	Photophysical characterization of new osmium (II) photocatalysts for hydrohalic acid splitting. Journal of Chemical Physics, 2020, 153, 054307.	1.2	5
9984	Thermodynamic Investigation of Proton/Electron Interplay on the Pourbaix Diagram at the TiO <sub>2</sub> /Electrolyte Interface. Journal of Physical Chemistry C, 2020, 124, 19003-19014.	1.5	14
9985	Enhanced catalytic properties of bimetallic sulfides with the assistance of graphene oxide for accelerating triiodide reduction in dye-sensitized solar cells. Solar Energy, 2020, 207, 1037-1044.	2.9	10
9986	A sustainable light-chargeable two-electrode energy storage system based on aqueous sodium-ion photo-intercalation. Sustainable Energy and Fuels, 2020, 4, 4789-4799.	2.5	11
9987	Synergizing hole accumulation and transfer on composite Ni/CoO <sub>x</sub> for photoelectrochemical water oxidation. Chemical Communications, 2020, 56, 10179-10182.	2.2	3
9988	Solution-Processed Sb <sub>2</sub> Se <sub>3</sub> on TiO <sub>2</sub> Thin Films Toward Oxidation- and Moisture-Resistant, Self-Powered Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 38341-38349.	4.0	32
9989	Drawing the distinguished graphite carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) on SnO <sub>2</sub> nanoflake film for solar water oxidation. International Journal of Hydrogen Energy, 2020, 45, 22567-22575.	3.8	12
9990	Visible light driven photosplitting of water using one dimensional Mg doped ZnO nanorod arrays. International Journal of Hydrogen Energy, 2020, 45, 22576-22588.	3.8	21
9991	Molecular engineering of C <sub>x</sub> N <sub>y</sub> : Topologies, electronic structures and multidisciplinary applications. Chinese Chemical Letters, 2020, 31, 3047-3054.	4.8	54
9992	Modified synthesis of BiVO <sub>4</sub> and effect of doping (Mo or W) on its photoelectrochemical performance for water splitting. Energy Reports, 2020, 6, 1963-1972.	2.5	51
9993	Gas Accessible Membrane Electrode (GAME): A Versatile Platform for Elucidating Electrocatalytic Processes Using Real-Time and in Situ Hyphenated Electrochemical Techniques. ACS Catalysis, 2020, 10, 9684-9693.	5.5	14
9994	A DFT study of influence of dichloromethane solvent and electric field on light absorption and electronic properties of two Quinoxaline-based solar cells. Optik, 2020, 219, 165030.	1.4	5
9995	Using van der Waals heterostructures based on two-dimensional InSe <sub>2</sub> (X = Mo, W) as promising photocatalysts for hydrogen production. Journal of Materials Chemistry C, 2020, 8, 12509-12515.	2.7	27
9996	Multifaceted aspects of charge transfer. Physical Chemistry Chemical Physics, 2020, 22, 21583-21629.	1.3	26

#	ARTICLE	IF	CITATIONS
9997	Construction of carboxyl position-controlled Z-scheme n-ZnO/p-Cu <sub>2</sub> O heterojunctions with enhanced photocatalytic property for different pollutants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125373.	2.3	15
9998	Comparative Oxygen Evolution Reaction performance of cobalt oxide electrocatalyst in combination with various metal ions MCo <sub>2</sub> O <sub>4</sub> (M= Mn <sup>2+</sup> , Cu <sup>2+</sup> ), <i>Tj ETQq1 1 0.784314 rgBT / 0.3</i> <i>Materials Science and Engineering</i> , 2020, 872, 012182.	0.3	4
9999	Photoelectrochemical performance of thermally sulfurized Cd <sub>x</sub> Zn <sub>1-x</sub> S photoanode: Enhancement with reduced graphene oxide support. <i>Renewable Energy</i> , 2020, 162, 182-195.	4.3	12
10000	Biohybrid electrodes for photoelectrochemical solar energy conversion. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 044701.	0.8	0
10001	Wrapping and unwrapping an indicaxanthin molecule: A computational approach. <i>Computational and Theoretical Chemistry</i> , 2020, 1191, 113028.	1.1	1
10002	Imine-carbene-based ruthenium complexes for dye-sensitized solar cells: the effect of isomeric mixture on the photovoltaic performance. <i>New Journal of Chemistry</i> , 2020, 44, 20568-20573.	1.4	4
10003	Graphene quantum dots/ZnO nanocomposite: Synthesis, characterization, mechanistic investigations of photocatalytic and antibacterial activities. <i>Chemical Physics Letters</i> , 2020, 761, 138009.	1.2	21
10004	Cu <sub>2</sub> O/ZnO n Junction Decorated with NiO <sub>x</sub> as a Protective Layer and Cocatalyst for Enhanced Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2020, 3, 10408-10414.	2.5	40
10005	Amplification of active sites and porosity for the adsorption of QDs via the induction of the rare-earth element La into TiO <sub>2</sub> for enhanced photovoltaic effects in QDSSCs. <i>New Journal of Chemistry</i> , 2020, 44, 20441-20448.	1.4	6
10006	Effect of auxiliary donors and position of benzothiadiazole on the optical and photovoltaic properties of dithieno[3,2-b:2',3'-d]pyrrole-based sensitizers. <i>Solar Energy</i> , 2020, 208, 539-547.	2.9	8
10007	In situ characterizations of photoelectrochemical cells for solar fuels and chemicals. <i>MRS Energy &amp; Sustainability</i> , 2020, 7, 1.	1.3	11
10008	Graphene-Si <sub>3</sub> N <sub>4</sub> nanocomposite blended polymer counter electrode for low-cost dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2020, 758, 137920.	1.2	7
10009	Visible light driven perovskite-based photocatalysts: A new candidate for green organic synthesis by photochemical protocol. <i>Current Research in Green and Sustainable Chemistry</i> , 2020, 3, 100031.	2.9	33
10010	Effect of Ultraviolet Radiation on the Long-Term Stability of Dye-Sensitized Solar Cells. <i>Electronic Materials Letters</i> , 2020, 16, 556-563.	1.0	1
10011	Nanoporous Ta <sub>3</sub> N <sub>5</sub> via electrochemical anodization followed by nitridation for solar water oxidation. <i>Dalton Transactions</i> , 2020, 49, 15023-15033.	1.6	4
10012	Fabrication of rGO/Fe <sub>2</sub> O <sub>3</sub> electrodes: characterization and use in photoelectrocatalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16882-16897.	1.1	5
10013	The InSe/SiH type-II van der Waals heterostructure as a promising water splitting photocatalyst: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21436-21444.	1.3	30
10014	Computational Study of Anthracene-Based Organic Dyes for Dye-Sensitized Solar Cells: Effects of Auxiliary Electron Donors. <i>Journal of Electronic Materials</i> , 2020, 49, 6317-6324.	1.0	0



#	ARTICLE	IF	CITATIONS
10015	Carbon-based nanomaterials: in the quest of alternative metal-free photocatalysts for solar water splitting. <i>Nanoscale Advances</i> , 2020, 2, 5130-5151.	2.2	50
10016	Recent Progress in Non-Precious Metal Single Atomic Catalysts for Solar and Non-Solar Driven Hydrogen Evolution Reaction. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000151.	2.7	14
10017	Self-Assembly Synthesis of the MoS <sub>2</sub> /PtCo Alloy Counter Electrodes for High-Efficiency and Stable Low-Cost Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2020, 10, 1725.	1.9	7
10018	Toward See-Through Optoelectronics: Transparent Light-Emitting Diodes and Solar Cells. <i>Advanced Optical Materials</i> , 2020, 8, 2001122.	3.6	35
10019	Enhanced Performance of Dye-Sensitized Solar Cells (DSSCs) Based on MoS <sub>2</sub> /Single-Walled Carbon Nanohorns Electrochemically Deposited on Bilayer Counter Electrodes. <i>ChemPlusChem</i> , 2020, 85, 2599-2605.	1.3	10
10020	Solar-driven integrated energy systems: State of the art and challenges. <i>Journal of Power Sources</i> , 2020, 478, 228762.	4.0	42
10021	Synthesis of A-D-A type quinoxaline-based small molecules for organic photovoltaic cells. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 705, 7-14.	0.4	1
10022	The Fast-Track Water Oxidation Channel on BiVO <sub>4</sub> Opened by Nitrogen Treatment. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8758-8764.	2.1	13
10023	Boosting the Activity and Stability of Copper Tungsten Nanoflakes toward Solar Water Oxidation by Iridium-Cobalt Phosphates Modification. <i>Catalysts</i> , 2020, 10, 913.	1.6	8
10024	Interpreting interfacial semiconductor-liquid capacitive characteristics impacted by surface states: a theoretical and experimental study of CuGaS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19631-19642.	1.3	10
10025	Open-shell donor-acceptor conjugated metal-free dyes for dye-sensitized solar cells. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1477-1490.	1.7	9
10026	Rapid Access of Alkynyl and Alkenyl Coumarins via a Dipyridinium Methylide and Propargylamine Cascade Reaction. <i>Organic Letters</i> , 2020, 22, 7348-7352.	2.4	22
10027	High performance BiFeO <sub>3</sub> ferroelectric nanostructured photocathodes. <i>Journal of Chemical Physics</i> , 2020, 153, 084705.	1.2	17
10028	Theoretical study on the photocatalytic properties of 2D InX(X = S, Se)/transition metal disulfide (MoS <sub>2</sub> and WS <sub>2</sub> ) van der Waals heterostructures. <i>Nanoscale</i> , 2020, 12, 20025-20032.	2.8	49
10029	Intervening Bismuth Tungstate with DNA Chain Assemblies: A Perception toward Feedstock Conversion via Photoelectrocatalytic Water Splitting. <i>Inorganic Chemistry</i> , 2020, 59, 14501-14512.	1.9	7
10030	Constructing Chemical Interaction between Hematite and Carbon Nanosheets with Single Active Sites for Efficient Photo-Electrochemical Water Oxidation. <i>Small Methods</i> , 2020, 4, 2000577.	4.6	23
10031	Two-dimensional functionalized hexagonal boron nitride for quantum dot photoelectrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20698-20713.	5.2	16
10032	Effect of TiO <sub>2</sub> Photoanodes Morphology and Dye Structure on Dye-Regeneration Kinetics Investigated by Scanning Electrochemical Microscopy. <i>Electrochem</i> , 2020, 1, 329-343.	1.7	1

#	ARTICLE	IF	CITATIONS
10033	Tailoring the Surface Properties of Bi <sub>2</sub> O <sub>2</sub> NCN by <i>in Situ</i> Activation for Augmented Photoelectrochemical Water Oxidation on WO <sub>3</sub> and CuWO <sub>4</sub> Heterojunction Photoanodes. <i>Inorganic Chemistry</i> , 2020, 59, 13589-13597.	1.9	7
10034	Theoretical study of the surface structure of anatase nanoparticles: effect on dye adsorption and photovoltaic properties. <i>New Journal of Chemistry</i> , 2020, 44, 17267-17276.	1.4	6
10035	Microwave assisted solvothermal synthesis of quasi cubic F doped TiO <sub>2</sub> nanostructures and its performance as dye sensitized solar cell photoanode. <i>International Journal of Energy Research</i> , 2021, 45, 17259-17268.	2.2	17
10036	Photoelectrocatalytic production of solar fuels with semiconductor oxides: materials, activity and modeling. <i>Chemical Communications</i> , 2020, 56, 12272-12289.	2.2	24
10037	Earth-abundant Cu-based metal oxide photocathodes for photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 3269-3306.	15.6	141
10038	Bandgap engineering of novel perylene[1,12- <i>bcd</i> ]thiophene sulfone-based conjugated co-polymers for significantly enhanced hydrogen evolution without co-catalyst. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20062-20071.	5.2	19
10039	Computation of Molecular Electron Affinities Using an Ensemble Density Functional Theory Method. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7795-7804.	1.1	10
10040	Effect of Lactic Acid on the Photoelectrocatalytic Water Splitting of Hematite Prepared by Hydrothermal Method. <i>Electronic Materials Letters</i> , 2020, 16, 481-490.	1.0	2
10041	Ab Initio Positioning of the Valence and Conduction Bands of Bulk Photocatalysts: Proposition of Absolute Reference Energy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19426-19434.	1.5	15
10042	Oxygen Reduction and Evolution Reaction (ORR and OER) Bifunctional Electrocatalyst Operating in a Wide pH Range for Cathodic Application in Li-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 9417-9427.	2.5	42
10043	TiO <sub>2</sub> nanoflowers based humidity sensor and cytotoxic activity. <i>RSC Advances</i> , 2020, 10, 29378-29384.	1.7	15
10044	Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Scheme Heterojunction for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2020, 32, e2002486.	11.1	34
10045	Transient Evolution of the Built-in Field at Junctions of GaAs. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40339-40346.	4.0	10
10046	Fabrication and Characterization of SnO <sub>2</sub> -Cu <sub>2</sub> O Mixed Metal Oxide Thin Films for Photoelectrochemical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7705-7709.	0.9	2
10047	Wood nanotechnology: a more promising solution toward energy issues: a mini-review. <i>Cellulose</i> , 2020, 27, 8513-8526.	2.4	14
10048	Absorption spectra and transition states for new organic dye sensitizers based on anthracene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 928, 072105.	0.3	0
10049	Atomic structure and electronic properties of hydrogenated X (=C, Si, Ge, and Sn) doped TiO <sub>2</sub> : A theoretical perspective. <i>AIP Advances</i> , 2020, 10, .	0.6	3
10050	Evaluating the impact of catalyst selection and semiconductor band edge on the photoelectrochemical production of H <sub>2</sub> O <sub>2</sub> via a real-time in situ probe. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114677.	1.9	4

#	ARTICLE	IF	CITATIONS
10051	Glycerol Role in Nano Oxides Synthesis and Catalysis. <i>Catalysts</i> , 2020, 10, 1406.	1.6	9
10052	Phase Segregated Pt@SnO <sub>2</sub> /C Nanohybrids for Highly Efficient Oxygen Reduction Electrocatalysis. <i>Small</i> , 2020, 16, e2005048.	5.2	32
10053	Size dependent photoelectrochemical performance of eco-friendly CuInS <sub>2</sub> quantum dots. <i>Journal of Physics: Conference Series</i> , 2020, 1605, 012163.	0.3	0
10054	Preparation of Photoactive Transition-Metal Layered Double Hydroxides (LDH) to Replace Dye-Sensitized Materials in Solar Cells. <i>Materials</i> , 2020, 13, 4384.	1.3	18
10055	Polydopamine-based nanoreactors: synthesis and applications in bioscience and energy materials. <i>Chemical Science</i> , 2020, 11, 12269-12281.	3.7	44
10056	Palladium Role in Growth of ZnO Nanostructure with Plasmonics Layering by Seed Mediated Hydrothermal Method. <i>Key Engineering Materials</i> , 2020, 860, 253-259.	0.4	0
10057	Ab-Initio Investigation on Dye Conformer Structures and the Interplay between Conformation and Multilayer Aggregation on TiO <sub>2</sub> toward Solar Cell Application. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 2282-2290.	0.1	0
10058	Enhancement of power conversion efficiency of dye-sensitized solar cells for indoor applications by using a highly responsive organic dye and tailoring the thickness of photoactive layer. <i>Journal of Power Sources</i> , 2020, 479, 229095.	4.0	9
10059	Study of various roasting-temperature and holding-time of ilmenite iron sand mixed with Na <sub>2</sub> CO <sub>3</sub> to acquire higher titanium concentration. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
10060	Work Function Evolution in Li Anode Processing. <i>Advanced Energy Materials</i> , 2020, 10, 2000520.	10.2	40
10061	Fabrication of Cr-doped SrTiO <sub>3</sub> /Ti-doped $\lambda$ -Fe <sub>2</sub> O <sub>3</sub> photoanodes with enhanced photoelectrochemical properties. <i>Journal of Materials Science and Technology</i> , 2020, 56, 189-195.	5.6	23
10062	Material flow analysis of titanium dioxide and sustainable policy suggestion in China. <i>Resources Policy</i> , 2020, 67, 101685.	4.2	15
10063	Excited-State Properties of Metal-Free ((Z)-2-Cyano-3-(4-(E)-2-(6-(4-methoxyphenyl)-9-octyl-9H-carbazol-3-yl)vinyl)phenyl)acrylic) Tj ETQq0 0 0 rgBT /Over (N719 and Z907) Dyes and Photoinduced Charge Transfer Processes in FTO/TiCl <sub>4</sub> /TiO <sub>2</sub> /Dye Photoanodes Fabricated by Conventional Staining and Potential-Assisted Adsorption. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4333-4344.	1.1	3
10064	Stable CdTe Photoanodes with Energetics Matching Those of a Coating Intermediate Band. <i>ACS Energy Letters</i> , 2020, 5, 1865-1871.	8.8	18
10065	Surface Engineering of WO <sub>3</sub> /BiVO <sub>4</sub> to Boost Solar Water-Splitting. <i>Catalysts</i> , 2020, 10, 556.	1.6	3
10066	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl <sub>2</sub> . <i>Angewandte Chemie</i> , 2020, 132, 13904-13910.	1.6	7
10067	Effect of Catalytically Silent Cerium Hydroxide in Cobalt@Cerium Mixed Double Hydroxide for Enhanced Water Oxidation Kinetics in a BiVO <sub>4</sub> Photoanode. <i>ACS Applied Energy Materials</i> , 2020, 3, 5610-5619.	2.5	10
10068	Decoupling Kinetics and Thermodynamics of Interfacial Catalysis at a Chemically Modified Black Silicon Semiconductor Photoelectrode. <i>ACS Energy Letters</i> , 2020, 5, 1848-1855.	8.8	8

#	ARTICLE	IF	CITATIONS
10069	Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision. <i>Physical Review Letters</i> , 2020, 124, 206801.	2.9	37
10070	Redox-Polymer-Based High-Current-Density Gas-Diffusion H <sub>2</sub> -Oxidation Bioanode Using [FeFe] Hydrogenase from <i>Desulfovibrio desulfuricans</i> in a Membrane-Free Biofuel Cell. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16506-16510.	7.2	21
10071	Highly sensitive photoelectrochemical immunosensor based on anatase/rutile TiO <sub>2</sub> and Bi <sub>2</sub> S <sub>3</sub> for the zero-biased detection of PSA. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1801-1809.	1.2	16
10072	Carrier Transfer and Capture Kinetics of the TiO <sub>2</sub> /Ag <sub>2</sub> V <sub>4</sub> O <sub>11</sub> Photocatalyst. <i>Nanomaterials</i> , 2020, 10, 828.	1.9	9
10073	Recent Advancement of p- and n-Block Elements, Single Atoms, and Graphene-Based Photoelectrochemical Electrodes for Water Splitting. <i>Advanced Energy Materials</i> , 2020, 10, 2000280.	10.2	88
10074	Gallium-Boron Phosphide (GaBP <sub>2</sub> ): a new III-V semiconductor for photovoltaics. <i>Journal of Materials Science</i> , 2020, 55, 9448-9460.	1.7	5
10075	Photoelectrochemical Decomposition of Lignin Model Compound on a BiVO <sub>4</sub> Photoanode. <i>ChemSusChem</i> , 2020, 13, 3622-3626.	3.6	17
10076	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13800-13806.	7.2	21
10077	[1]Benzothieno[3,2-b][1]benzothiophene-Phthalocyanine Derivatives: A Subclass of Solution-Processable Electron-Rich Hole Transport Materials. <i>ChemPlusChem</i> , 2020, 85, 2376-2386.	1.3	16
10078	Beyond electrolysis: old challenges and new concepts of electricity-driven chemical reactors. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1005-1016.	1.9	51
10079	The Construction of Au-Fe-TS-1 Interface Coupling Structure for Improving Catalytic Performance of Propylene Epoxidation with H <sub>2</sub> and O <sub>2</sub> . <i>Catalysis Letters</i> , 2020, 150, 3149-3158.	1.4	3
10080	Amorphous versus Crystalline in Water Oxidation Catalysis: A Case Study of NiFe Alloy. <i>Nano Letters</i> , 2020, 20, 4278-4285.	4.5	201
10081	Plasmonic nanocatalysis for solar energy harvesting and sustainable chemistry. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10074-10095.	5.2	37
10082	Mechanistic insights into photocatalysis and over two days of stable H <sub>2</sub> generation in electrocatalysis by a molecular cobalt catalyst immobilized on TiO <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2020, 10, 2549-2560.	2.1	7
10083	Do HOMO-LUMO Energy Levels and Band Gaps Provide Sufficient Understanding of Dye-Sensitizer Activity Trends for Water Purification?. <i>ACS Omega</i> , 2020, 5, 15052-15062.	1.6	18
10084	Cooperation of Hot Holes and Surface Adsorbates in Plasmon-Driven Anisotropic Growth of Gold Nanostars. <i>Journal of the American Chemical Society</i> , 2020, 142, 10921-10925.	6.6	44
10085	New-generation titania-based catalysts for photocatalytic hydrogen generation. , 2020, , 257-292.		1
10086	Multi-Structure Hollow Nanofibers: Controlled Synthesis and Photocatalytic Applications. <i>ChemNanoMat</i> , 2020, 6, 1149-1163.	1.5	6

#	ARTICLE	IF	CITATIONS
10087	Understanding Surface Recombination Processes Using Intensity-Modulated Photovoltage Spectroscopy on Hematite Photoanodes for Solar Water Splitting. <i>Helvetica Chimica Acta</i> , 2020, 103, e2000064.	1.0	8
10088	New Oxindole-Bridged Acceptors for Organic Sensitizers: Substitution and Performance Studies in Dye-Sensitized Solar Cells. <i>Molecules</i> , 2020, 25, 2159.	1.7	6
10089	Elucidation of the Active Sites for Monodisperse FePt and Pt Nanocrystal Catalysts for p-WSe <sub>2</sub> Photocathodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11877-11885.	1.5	10
10090	SrTaO <sub>2</sub> N co-doped with La/Zr as promising photocatalysts for water reduction under visible light illumination. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2343-2351.	3.0	11
10091	Enhancement in the solar efficiency of a dye-sensitized solar cell by molecular engineering of an organic dye incorporating N-alkyl-attached 1,8-naphthalamide derivative. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11407-11416.	2.7	12
10092	Immobilized palladium complex into carbon-based nanomaterials: As catalyst for counter-electrode in the photovoltaics. <i>Journal of Molecular Structure</i> , 2020, 1217, 128444.	1.8	6
10093	The constructive role of ZnSe passivating layer on the photovoltaic performance of the fast-fabricated CdS/CdSe quantum dot sensitized solar cells. <i>Optical Materials</i> , 2020, 105, 109918.	1.7	9
10094	Existence of $\pi$ -mangostin conformers and effects of aprotic and protic solvents on their equilibria, UV-Vis spectra, and chemical descriptors: Density functional theory and time-dependent density functional theory study. <i>Journal of Physical Organic Chemistry</i> , 2020, 33, e4080.	0.9	0
10095	Near infrared-driven photoelectrochemical water splitting: Review and future prospects. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8372-8387.	2.3	51
10096	Triphenylamine-based phenylhydrazone-indolium cationic dyes for solid-state DSSC applications. <i>Materials Letters</i> , 2020, 274, 128001.	1.3	5
10097	The role of doping molybdenum (Mo) and back-front side illumination in enhancing the charge separation of I <sub>3</sub> <sup>-</sup> /Fe <sub>2</sub> O <sub>3</sub> nanorod photoanode for solar water splitting. <i>Solar Energy</i> , 2020, 205, 126-134.	2.9	34
10098	Anthracene Organic Sensitizer with Dual Anchors for Efficient and Robust Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 5479-5486.	2.5	14
10099	Anomalous chemically induced electron spin polarization in proton-coupled electron transfer reactions: insight into radical pair dynamics. <i>Chemical Science</i> , 2020, 11, 6268-6274.	3.7	6
10100	Flexibilities of wavelets as a computational basis set for large-scale electronic structure calculations. <i>Journal of Chemical Physics</i> , 2020, 152, 194110.	1.2	60
10101	Vertically nanotwinned TiO <sub>2</sub> photoanodes with enhanced charge transport for efficient solar water splitting. <i>Applied Materials Today</i> , 2020, 20, 100707.	2.3	5
10102	Theoretical Investigation on Copper(I) Complexes Featuring a Phosphonic Acid Anchor with Asymmetric Ligands for DSSC. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2141-2150.	2.0	8
10103	Sensitivity enhancement of AZO-based ethanol sensor decorated by Au nano-islands. <i>Current Applied Physics</i> , 2020, 20, 917-924.	1.1	6
10104	Ab initio description of nanodiamonds: A DFT and TDDFT benchmark. <i>Diamond and Related Materials</i> , 2020, 108, 107959.	1.8	10

#	ARTICLE	IF	CITATIONS
10105	Natural-dye-sensitized photoelectrochemical cells for solar energy conversion. <i>Nanomaterials and Energy</i> , 2020, 9, 215-226.	0.1	7
10106	Dye-sensitized solar cells based on dimethylamino- $\beta$ -bridge-pyranoanthocyanin dyes. <i>Solar Energy</i> , 2020, 206, 188-199.	2.9	15
10107	Recent Progress in Single-Atom Catalysts for Photocatalytic Water Splitting. <i>Solar Rrl</i> , 2020, 4, 2000283.	3.1	59
10108	Boosting the performance of eco-friendly quantum dots-based photoelectrochemical cells via effective surface passivation. <i>Nano Energy</i> , 2020, 76, 105062.	8.2	41
10109	Tuning photoelectrochemical performance of poly(3-hexylthiophene) electrodes via surface structuring. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10897-10906.	2.7	19
10110	Bimetallic PtCu-decorated reduced graphene oxide (RGO)-TiO <sub>2</sub> nanocomposite for efficient oxygen reduction reaction. <i>Synthetic Metals</i> , 2020, 266, 116433.	2.1	18
10111	Hydrogenation of ZnFe <sub>2</sub> O <sub>4</sub> Flat Films: Effects of the Pre-Annealing Temperature on the Photoanodes Efficiency for Water Oxidation. <i>Surfaces</i> , 2020, 3, 93-104.	1.0	9
10112	Nanocomposite of Ag nanoparticles and catalytic fluorescent carbon dots for synergistic bactericidal activity through enhanced reactive oxygen species generation. <i>Nanotechnology</i> , 2020, 31, 405704.	1.3	28
10113	Facile synthesis of cobalt-nickel sulfide thin film as a promising counter electrode for triiodide reduction in dye-sensitized solar cells. <i>Energy</i> , 2020, 202, 117730.	4.5	31
10114	Heterostructured thin LaFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> films for efficient photoelectrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17468-17479.	3.8	42
10115	Mechanism of hydrogen generation on stable Mo-edge of 2H-MoS <sub>2</sub> in water from density functional theory. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	6
10116	In situ growth of Fe <sub>2</sub> WO <sub>6</sub> on WO <sub>3</sub> nanosheets to fabricate heterojunction arrays for boosting solar water splitting. <i>Journal of Chemical Physics</i> , 2020, 152, 214704.	1.2	19
10117	Implementation of ferroelectric materials in photocatalytic and photoelectrochemical water splitting. <i>Nanoscale Horizons</i> , 2020, 5, 1174-1187.	4.1	65
10118	Unexpected high efficient dye sensitized solar cell based NiWO <sub>4</sub> decorated bio activated carbon nanosheets hybrid photoanodes by one-pot facile hydrothermal approach. <i>Inorganic Chemistry Communication</i> , 2020, 118, 108039.	1.8	6
10119	Solvothermal synthesis of g-C <sub>3</sub> N <sub>4</sub> and ZnO nanoparticles on TiO <sub>2</sub> nanotube as photoanode in DSSC. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18831-18839.	3.8	35
10120	Indoor Thin-Film Photovoltaics: Progress and Challenges. <i>Advanced Energy Materials</i> , 2020, 10, 2000641.	10.2	89
10121	Visible-light responsive BiNbO <sub>4</sub> nanosheet photoanodes for stable and efficient solar-driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14042-14051.	1.3	7
10122	Enhanced Photoelectrochemical Water Splitting at Hematite Photoanodes by Effect of a NiFe-Oxide co-Catalyst. <i>Catalysts</i> , 2020, 10, 525.	1.6	13

#	ARTICLE	IF	CITATIONS
10123	3D Structural Optimization of Zinc Phthalocyanine-Based Sensitizers for Enhancement of Open-Circuit Voltage of Dye-Sensitized Solar Cells. <i>Energies</i> , 2020, 13, 2288.	1.6	3
10124	Effective Visible Light Exploitation by Copper Molybdo-tungstate Photoanodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 6956-6964.	2.5	11
10125	Hexagonal diameter in cadmium sulfide/anodic alumina nanoporous bi-layer membrane by a sol-gel spin coating and their sensing application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	3
10126	Direct Dynamic Evidence of Charge Separation in a Dye-Sensitized Solar Cell Obtained under Operando Conditions by Raman Spectroscopy. <i>Angewandte Chemie</i> , 2020, 132, 10872-10876.	1.6	5
10127	Synthesis of rutile TiO <sub>2</sub> nanostructures by single step hydrothermal route and its characterization. <i>Materials Today: Proceedings</i> , 2020, 23, 444-451.	0.9	26
10128	Photoelectrochemical Glucose Biosensor Based on the Heterogeneous Facets of Nanocrystalline TiO <sub>2</sub> /Au/Glucose Oxidase Films. <i>ACS Applied Nano Materials</i> , 2020, 3, 2723-2732.	2.4	37
10129	The Role of Surface Oxygen Vacancies in BiVO <sub>4</sub> . <i>Chemistry of Materials</i> , 2020, 32, 2899-2909.	3.2	108
10130	Substantially Improved Na-Ion Storage Capability by Nanostructured Organic-Inorganic Polyaniline-TiO <sub>2</sub> Composite Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 3477-3487.	2.5	13
10131	Alkali Metal Cation Incorporation in Conductive TiO <sub>2</sub> Nanoflakes with Improved Photoelectrochemical H <sub>2</sub> Generation. <i>ChemElectroChem</i> , 2020, 7, 1699-1706.	1.7	9
10132	One-step fabrication of TiO <sub>2</sub> /graphene hybrid mesoporous film with enhanced photocatalytic activity and photovoltaic performance. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1208-1216.	6.9	16
10133	A rational design of excellent light-absorbing dyes with different N-substituents at the phenothiazine for high efficiency solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118241.	2.0	17
10134	Investigation of electrical values of low-efficiency dye-sensitized solar cells (DSSCs). <i>Energy</i> , 2020, 199, 117222.	4.5	13
10135	Molecular engineering strategies for fabricating efficient porphyrin-based dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 1617-1657.	15.6	178
10136	Light-addressable Electrodes for Dynamic and Flexible Addressing of Biological Systems and Electrochemical Reactions. <i>Sensors</i> , 2020, 20, 1680.	2.1	8
10137	Designing catalysts for water splitting based on electronic structure considerations. <i>Electronic Structure</i> , 2020, 2, 023001.	1.0	43
10138	Core-Shell Structured NiFeSn@NiFe (Oxy)Hydroxide Nanospheres from an Electrochemical Strategy for Electrocatalytic Oxygen Evolution Reaction. <i>Advanced Science</i> , 2020, 7, 1903777.	5.6	69
10139	A Hydrogen-Deficient Nickel-Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11510-11515.	7.2	55
10140	Osmium sensitizer with enhanced spin-orbit coupling for panchromatic dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12361-12369.	5.2	17

#	ARTICLE	IF	CITATIONS
10141	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 1487-1497.	8.8	104
10142	Direct Dynamic Evidence of Charge Separation in a Dye-Sensitized Solar Cell Obtained under Operando Conditions by Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10780-10784.	7.2	16
10143	Ultra-Narrow Depletion Layers in a Hematite Mesocrystal-Based Photoanode for Boosting Multihole Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9047-9054.	7.2	60
10144	Structured graphene metamaterial selective absorbers for high efficiency and omnidirectional solar thermal energy conversion. <i>Nature Communications</i> , 2020, 11, 1389.	5.8	253
10145	Enhancing Charge Transfer and Photoelectric Characteristics for Organic Solar Cells. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-12.	1.5	0
10146	S-Scheme Heterojunction Photocatalyst. <i>CheM</i> , 2020, 6, 1543-1559.	5.8	1,993
10147	Tuning of oxygen vacancy-induced electrical conductivity in Ti-doped hematite films and its impact on photoelectrochemical water splitting. <i>Scientific Reports</i> , 2020, 10, 7463.	1.6	28
10148	A highly transparent thin film hematite with multi-element dopability for an efficient unassisted water splitting system. <i>Nano Energy</i> , 2020, 76, 105089.	8.2	29
10149	Floating Networks of Alga-like Photoelectrodes for Highly Efficient Photoelectrochemical H <sub>2</sub> Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10564-10571.	3.2	6
10150	Two-Dimensional Layered Materials: High-Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2020, 3, 6270-6296.	2.4	70
10151	Innovative multifunctional hybrid photoelectrode design based on a ternary heterojunction with super-enhanced efficiency for artificial photosynthesis. <i>Scientific Reports</i> , 2020, 10, 10669.	1.6	4
10152	Recent Progresses on Metal Halide Perovskite-Based Material as Potential Photocatalyst. <i>Catalysts</i> , 2020, 10, 709.	1.6	65
10153	Core/Shell Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2020, , .	0.4	3
10154	Should All Electrochemical Energy Materials Be Isomaterially Heterostructured to Optimize Contra and Co-varying Physicochemical Properties?. <i>Frontiers in Chemistry</i> , 2020, 8, 515.	1.8	4
10155	Use of Chalcogenide-Semiconductor-Sensitized Titania to Directly Charge a Vanadium Redox Battery. <i>Nanomaterials</i> , 2020, 10, 1137.	1.9	2
10156	Low-cost and novel preparation of porous NiS <sub>2</sub> /graphene heterojunctions photoanodes for high-efficiency dye-sensitized solar cells. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108063.	1.8	7
10157	Iron and manganese oxo complexes, oxo wall and beyond. <i>Nature Reviews Chemistry</i> , 2020, 4, 404-419.	13.8	167
10158	A computational investigation of the influence of acceptor moieties on photovoltaic performances and adsorption onto the TiO <sub>2</sub> surface in triphenylamine-based dyes for DSSC application. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112745.	2.0	18



#	ARTICLE	IF	CITATIONS
10159	Electrochemical Biosensors Employing Natural and Artificial Heme Peroxidases on Semiconductors. <i>Sensors</i> , 2020, 20, 3692.	2.1	14
10160	Performance enhancement of hematite photoanode with oxygen defects for water splitting. <i>Chemical Engineering Journal</i> , 2020, 402, 126163.	6.6	38
10161	Surface defect passivation of Ta <sub>3</sub> N <sub>5</sub> photoanode via pyridine grafting for enhanced photoelectrochemical performance. <i>Journal of Chemical Physics</i> , 2020, 153, 024705.	1.2	5
10162	An off-on electrochemiluminescence detection for microRNAs based on TiO <sub>2</sub> nanotubes sensitized with gold nanoparticles as enhanced emitters. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5779-5787.	1.9	6
10163	Structural reconstruction strategies for the design of cellulose nanomaterials and aligned wood cellulose-based functional materials – A review. <i>Carbohydrate Polymers</i> , 2020, 247, 116722.	5.1	29
10164	Ultrahigh electrocatalytic activity with trace amounts of platinum loadings on free-standing mesoporous titanium nitride nanotube arrays for hydrogen evolution reactions. <i>Nanoscale</i> , 2020, 12, 15393-15401.	2.8	31
10165	Modulating the molecular configuration by varying linking bridge for double-anchored dye-sensitized solar cells. <i>Journal of Chemical Physics</i> , 2020, 152, 244708.	1.2	5
10166	Electrophoretic deposition of antimonene for photoelectrochemical applications. <i>Applied Materials Today</i> , 2020, 20, 100714.	2.3	11
10167	Rutile Ti <sub>0.9</sub> Ir <sub>0.1</sub> O <sub>2</sub> -Supported Low Pt Loading: An Efficient Electrocatalyst for Ethanol Electrochemical Oxidation in Acidic Media. <i>Energy Technology</i> , 2020, 8, 2000431.	1.8	6
10168	Facile fabrication of well-performing CdS/CdSe quantum dot sensitized solar cells through a fast and effective formation of the CdSe nanocrystalline layer. <i>Solar Energy</i> , 2020, 207, 32-39.	2.9	22
10169	Incorporation of Carbon Dots on the ZnO Nanosheets as Metal-Organic Framework Photoanodes for High Efficient Dye Sensitized Solar Cell Applications. <i>Journal of Cluster Science</i> , 2020, 32, 795.	1.7	5
10170	Homostructural Ta <sub>3</sub> N <sub>5</sub> nanotube/nanoparticle photoanodes for highly efficient solar-driven water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119217.	10.8	20
10171	A stable gel electrolyte based on poly butyl acrylate (PBA)-co-poly acrylonitrile (PAN) for solid-state dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2020, 754, 137756.	1.2	24
10172	Ruthenium complexes based dye sensitized solar cells: Fundamentals and research trends. <i>Solar Energy</i> , 2020, 207, 59-76.	2.9	90
10173	Addressing the Origin of Photocurrents and Fuel Production Activities in Catalyst-Modified Semiconductor Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 7512-7519.	2.5	6
10174	Recent Progress on Cu <sub>2</sub> BaSn(S x Se) <sub>4</sub> : From Material to Solar Cell Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000060.	0.8	4
10175	Defect engineering of the protection layer for photoelectrochemical devices. <i>EnergyChem</i> , 2020, 2, 100039.	10.1	15
10176	Energy-based descriptors for photo-catalytically active metal-organic framework discovery. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4473-4482.	5.2	24

#	ARTICLE	IF	CITATIONS
10177	Synthesis, structural, optical and photocatalytic behavior of Sn doped ZnO nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 253, 114497.	1.7	94
10178	Correlation of hydrogen generation and optical emission properties of plasma in water photolysis on perovskite photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8595-8604.	3.8	9
10179	Electron transfer mechanism of graphene/Cu heterostructure for improving the stability of triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 70, 104540.	8.2	42
10180	Strong electronic couple engineering of transition metal phosphides-oxides heterostructures as multifunctional electrocatalyst for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118803.	10.8	94
10181	On interaction of arginine, cysteine and guanine with a nano-TiO <sub>2</sub> cluster. <i>Computational Biology and Chemistry</i> , 2020, 86, 107236.	1.1	4
10182	Improved performance with molecular design of Ruthenium(II) complexes bearing diamine-based bidentate ligands as sensitizer for dye-sensitized solar cells (DSSC). <i>Journal of Molecular Structure</i> , 2020, 1209, 127920.	1.8	12
10183	Photoelectric performance evaluation of DSSCs using the dye extracted from different color petals of <i>Leucanthemum vulgare</i> flowers as novel sensitizers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 233, 118198.	2.0	38
10184	Interfacial Photoelectrochemical Catalysis: Solar-Induced Green Synthesis of Organic Molecules. <i>ChemSusChem</i> , 2020, 13, 1967-1973.	3.6	32
10185	Increasing the Efficiency of Dye-Sensitized Solar Cells by Adding Nickel Oxide Nanoparticles to Titanium Dioxide Working Electrodes. <i>Coatings</i> , 2020, 10, 195.	1.2	12
10186	Earth-Abundant Transition-Metal-Based Bifunctional Electrocatalysts for Overall Water Splitting in Alkaline Media. <i>Chemistry - A European Journal</i> , 2020, 26, 6423-6436.	1.7	66
10187	Electron Storage System Based on a Two-Way Inversion of Redox Potentials. <i>Journal of the American Chemical Society</i> , 2020, 142, 5162-5176.	6.6	17
10189	WO <sub>3</sub> -TiO <sub>2</sub> nanotubes modified with tin oxide as efficient and stable photocatalysts for photoelectrochemical water splitting. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 1131-1140.	1.2	4
10190	Bimetallic sulfide Co <sub>8</sub> FeS <sub>8</sub> /N-C dodecahedral nanocages via cation exchange as counter electrode for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154526.	2.8	15
10191	Rational Design of Photo-Electrochemical Hybrid Devices Based on Graphene and <i>Chlamydomonas reinhardtii</i> Light-Harvesting Proteins. <i>Scientific Reports</i> , 2020, 10, 3376.	1.6	9
10192	Enhanced photoelectrochemical performance of an Fe <sub>2</sub> O <sub>3</sub> nanorods photoanode with embedded nanocavities formed by helium ions implantation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9408-9415.	3.8	13
10193	High efficient photocatalytic reduction of aqueous Zn <sup>2+</sup> , Pb <sup>2+</sup> and Cu <sup>2+</sup> ions using modified titanium dioxide nanoparticles with amino acids. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 85, 190-195.	2.9	12
10194	Structure-directing property and growth mechanism induced by capping agents in nanostructured ZnO during hydrothermal synthesis—A systematic review. <i>Nano Structures Nano Objects</i> , 2020, 22, 100426.	1.9	83
10195	Increased photocurrent of CuWO <sub>4</sub> photoanodes by modification with the oxide carbodiimide Sn <sub>2</sub> O(NCN). <i>Dalton Transactions</i> , 2020, 49, 3450-3456.	1.6	14

#	ARTICLE	IF	CITATIONS
10196	Integrated Photorechargeable Energy Storage System: Next-Generation Power Source Driving the Future. <i>Advanced Energy Materials</i> , 2020, 10, 1903930.	10.2	128
10197	Wavefunction engineering for efficient photoinduced-electron transfer in CuInS <sub>2</sub> quantum dot-sensitized solar cells. <i>Nanotechnology</i> , 2020, 31, 215408.	1.3	4
10198	Recent Developments in Copper and Iron Based Dyes as Light Harvesters. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020, , 107-114.	0.3	1
10199	Porphyrin dyes bearing heterocyclic anchoring groups for dye-sensitized solar cells with enhanced efficiency and long-term stability: Further optimization of champion porphyrin dye SM315. <i>Applied Surface Science</i> , 2020, 513, 145844.	3.1	8
10200	Liquid-Plasma Hydrogenated Synthesis of Gray Titania with Engineered Surface Defects and Superior Photocatalytic Activity. <i>Nanomaterials</i> , 2020, 10, 342.	1.9	12
10201	Synthesis, properties and photovoltaic performance in dye-sensitized solar cells of three meso-diphenylbacteriochlorins bearing a dual-function electron-donor. <i>RSC Advances</i> , 2020, 10, 6172-6178.	1.7	5
10202	Computational study of film morphology impact on light absorption in particulate Ta <sub>3</sub> N <sub>5</sub> /Si photoanodes for water splitting. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 185501.	1.3	0
10203	Hierarchical and scalable integration of nanostructures for energy and environmental applications: a review of processing, devices, and economic analyses. <i>Nano Futures</i> , 2020, 4, 012002.	1.0	12
10205	TiO <sub>2</sub> nanotubes modified with polydopamine and graphene quantum dots as a photochemical biosensor for the ultrasensitive detection of glucose. <i>Journal of Materials Science</i> , 2020, 55, 6105-6117.	1.7	19
10206	Carbon quantum dots modified anatase/rutile TiO <sub>2</sub> photoanode with dramatically enhanced photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118776.	10.8	132
10207	n-Dodecanol nanocapsules with supramolecular lock shell layer for thermal energy storage. <i>Chemical Engineering Journal</i> , 2020, 389, 124483.	6.6	54
10208	Current Challenges and Routes Forward for Nonaqueous Lithium-Air Batteries. <i>Chemical Reviews</i> , 2020, 120, 6558-6625.	23.0	356
10209	Computational studies of Ni(II) photosensitizers complexes containing 1,1'-bis(diphenylphosphino)ferrocene and dithio ligands. <i>Canadian Journal of Chemistry</i> , 2020, 98, 194-203.	0.6	4
10210	Effect of graphene between photoanode and sensitizer on the intramolecular and intermolecular electron transfer process. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6391-6400.	1.3	32
10211	Molecular Organic Sensitizers for Photoelectrochemical Water Splitting. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 978-999.	1.0	29
10212	Important Considerations in Plasmon-Enhanced Electrochemical Conversion at Voltage-Biased Electrodes. <i>IScience</i> , 2020, 23, 100911.	1.9	19
10213	Surface Water Loading on Titanium Dioxide Modulates Photocatalytic Water Splitting. <i>Cell Reports Physical Science</i> , 2020, 1, 100013.	2.8	17
10214	Vibrational Spectra of the Ruthenium-Tris-Bipyridine Dication and Its Reduced Form in Vacuo. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2449-2459.	1.1	11

#	ARTICLE	IF	CITATIONS
10215	Organic Dye Molecules Sensitization-Enhanced Photocatalytic Water-Splitting Activity of MoS <sub>2</sub> from First-Principles Calculations. Journal of Physical Chemistry C, 2020, 124, 6580-6587.	1.5	12
10216	Efficient Anthryl Dye Enhanced by an Additional Ethynyl Bridge for Dye-Sensitized Module with Large Active Area to Drive Indoor Appliances. ACS Applied Energy Materials, 2020, 3, 2744-2754.	2.5	9
10217	Improving the photostability of cupric oxide nanorods. Thin Solid Films, 2020, 697, 137849.	0.8	9
10218	Recent Advances and a Roadmap to Wearable UV Sensor Technologies. Advanced Materials Technologies, 2020, 5, 1901036.	3.0	78
10219	Single-step fabrication of 3D hierarchical ZnO/ZnS heterojunction branched nanowires by MOCVD for enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2020, 8, 8300-8312.	5.2	52
10220	Sol-Gel Processed TiO <sub>2</sub> Nanotube Photoelectrodes for Dye-Sensitized Solar Cells with Enhanced Photovoltaic Performance. Nanomaterials, 2020, 10, 296.	1.9	27
10221	Electroless Plating of NiFeP Alloy on the Surface of Silicon Photoanode for Efficient Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 11479-11488.	4.0	28
10222	Fabrication of BaTaO <sub>2</sub> N Thin Films by Interfacial Reactions of BaCO <sub>3</sub> /Ta <sub>3</sub> N <sub>5</sub> Layers on a Ta Substrate and Resulting High Photoanode Efficiencies During Water Splitting. Solar Rrl, 2020, 4, 1900542.	3.1	15
10223	<i>tert</i> -Butylpyridine Coordination with [Cu(dmp) <sub>2</sub> ] <sup>2+</sup> Redox Couple and Its Connection to the Stability of the Dye-Sensitized Solar Cell. ACS Applied Materials & Interfaces, 2020, 12, 5812-5819.	4.0	30
10224	Facet-Independent Oxygen Evolution Activity of Pure $\hat{I}^2$ -NiOOH: Different Chemistries Leading to Similar Overpotentials. Journal of the American Chemical Society, 2020, 142, 3600-3612.	6.6	114
10225	Impact of oxygen vacancies on TiO <sub>2</sub> charge carrier transfer for photoelectrochemical water splitting. Dalton Transactions, 2020, 49, 2184-2189.	1.6	29
10226	Large-scale preparation of titania film for water splitting reaction. Polyhedron, 2020, 179, 114348.	1.0	1
10227	Improved performance and stability of photoelectrochemical water-splitting Si system using a bifacial design to decouple light harvesting and electrocatalysis. Nano Energy, 2020, 70, 104478.	8.2	37
10228	Cobalt Phosphate Cocatalyst Loaded-CdS Nanorod Photoanode with Well-Defined Junctions for Highly Efficient Photoelectrochemical Water Splitting. Catalysis Letters, 2020, 150, 1878-1889.	1.4	13
10229	Multifunctional nanostructured materials for next generation photovoltaics. Nano Energy, 2020, 70, 104480.	8.2	52
10230	Hybrid nanostructures for solar-energy-conversion applications. Nanomaterials and Energy, 2020, 9, 39-46.	0.1	12
10231	Facile one-pot microwave-assisted synthesis of tungsten-doped BiVO <sub>4</sub> /WO <sub>3</sub> heterojunctions with enhanced photocatalytic activity. Materials Research Bulletin, 2020, 125, 110783.	2.7	39
10232	Microalgal Hydrogen Production. Small Methods, 2020, 4, 1900514.	4.6	48

#	ARTICLE	IF	CITATIONS
10233	Design and fabrication of hybrid carbon dots/titanium dioxide (CDs/TiO <sub>2</sub> ) photoelectrodes for highly efficient dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3492-3499.	1.1	8
10234	Yolk-shell SnO <sub>2</sub> @TiO <sub>2</sub> nanospheres as electron transport layer in mesoscopic perovskite solar cell. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 731-742.	1.1	5
10235	Adsorption of dyes onto modified titanium dioxide. , 2020, , 85-160.		2
10236	Quantitative Analysis of Semiconductor Electrode Voltammetry: A Theoretical and Operational Framework for Semiconductor Ultramicroelectrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5021-5035.	1.5	5
10237	Enhanced performance of CdS/CdSe quantum dot-sensitized solar cells by long-persistence phosphors structural layer. <i>Science China Materials</i> , 2020, 63, 516-523.	3.5	18
10238	Silicon diphosphide (SiP <sub>2</sub> ) and silicon diarsenide (SiAs <sub>2</sub> ): Novel stable 2D semiconductors with high carrier mobilities, promising for water splitting photocatalysts. <i>Materials Today Energy</i> , 2020, 16, 100377.	2.5	33
10239	The interplay of electron-photon and cavity-environment coupling on the electron transport through a quantum dot system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 119, 113996.	1.3	6
10240	Tuning the photocatalytic water-splitting capability of two-dimensional In <sub>2</sub> Se <sub>3</sub> by strain-driven band gap engineering. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3520-3526.	1.3	21
10241	Ensembles of Photonic Beads: Optical Properties and Enhanced Light-Matter Interactions. <i>Advanced Optical Materials</i> , 2020, 8, 1901537.	3.6	16
10242	3D electronic and photonic structures as active biological interfaces. <i>Informa-Materially</i> , 2020, 2, 527-552.	8.5	17
10243	A novel ZnS/SiO <sub>2</sub> double passivation layers for the CdS/CdSe quantum dots co-sensitized solar cells based on zinc titanium mixed metal oxides. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110380.	3.0	22
10244	Co-electrodeposited Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films for P-N junction photovoltaics and dye sensitized solar cells. <i>Materials Today: Proceedings</i> , 2020, 25, 122-128.	0.9	5
10245	Improved photoelectrochemical hydrogen production over decorated titania with copper and nickel oxides by optimizing the photoanode and reaction characteristics. <i>Materials Today Chemistry</i> , 2020, 16, 100241.	1.7	9
10246	Phthalocyanine-silver nanoparticle structures for plasmon-enhanced dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 198, 283-294.	2.9	24
10247	Efficient photoelectrochemical hydrogen production over CuInS <sub>2</sub> photocathodes modified with amorphous Ni-MoS <sub>x</sub> operating in a neutral electrolyte. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1607-1611.	2.5	10
10248	Alternating Current Photovoltaic Effect. <i>Advanced Materials</i> , 2020, 32, e1907249.	11.1	54
10249	Epitaxial Cubic Silicon Carbide Photocathodes for Visible-Light-Driven Water Splitting. <i>Chemistry - A European Journal</i> , 2020, 26, 3586-3590.	1.7	9
10250	Bi <sub>2</sub> S <sub>3</sub> nanoparticles densely grown on electrospun-carbon-nanofibers as low-cost counter electrode for liquid-state solar cells. <i>Materials Research Bulletin</i> , 2020, 125, 110800.	2.7	32

#	ARTICLE	IF	CITATIONS
10251	Photo-stimulated desorption of trimethyl acetic acid on cross-linked (1-Å-2) TiO <sub>2</sub> (1-1-0) probed by scanning tunneling microscopy. Applied Surface Science, 2020, 511, 145553.	3.1	3
10252	Charge generation dynamics in hematite photoanodes decorated with gold nanostructures under near infrared excitation. Journal of Chemical Physics, 2020, 152, 041106.	1.2	6
10253	Optimization of platinum precursor concentration for new, fast and simple fabrication method of counter electrode for DSSC application. Optik, 2020, 206, 164314.	1.4	10
10254	Strategies for Semiconductor/Electrocatalyst Coupling toward Solar-Driven Water Splitting. Advanced Science, 2020, 7, 1902102.	5.6	110
10255	Bifunctional Photoelectrode Driven by Charged Domain Walls in Ferroelectric Bi <sub>2</sub> WO <sub>6</sub> . ACS Applied Energy Materials, 2020, 3, 4149-4154.	2.5	19
10256	Effect of Mn <sup>2+</sup> substitution on the structure, properties and HER activity of cadmium phosphochlorides. RSC Advances, 2020, 10, 5134-5145.	1.7	4
10257	Lattice distortion induced internal electric field in TiO <sub>2</sub> photoelectrode for efficient charge separation and transfer. Nature Communications, 2020, 11, 2129.	5.8	108
10258	Colloidal metal Ag nanowire as an efficient co-catalyst for enhancing the solar water oxidation of fluorinated BiVO <sub>4</sub> photoelectrode. Chemical Engineering Journal, 2020, 394, 125016.	6.6	16
10259	Enhanced photoelectric and photocatalysis performances of quinacridone derivatives by forming D- $\pi$ -A structure. Solar Energy, 2020, 201, 872-883.	2.9	39
10260	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> /PbTiO <sub>3</sub> Films. Advanced Materials Interfaces, 2020, 7, 2000185.	1.9	11
10261	Ultra-Narrow Depletion Layers in a Hematite Mesocrystal-Based Photoanode for Boosting Multihole Water Oxidation. Angewandte Chemie, 2020, 132, 9132-9139.	1.6	5
10262	A Hydrogen-Deficient Nickel-Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. Angewandte Chemie, 2020, 132, 11607-11612.	1.6	6
10263	FeOOH/rGO/BiVO <sub>4</sub> Photoanode for Highly Enhanced Photoelectrochemical Water Splitting Performance. ChemCatChem, 2020, 12, 3769-3775.	1.8	18
10264	Novel Ruthenium Sensitizers Designing for Efficient Light Harvesting under Both Sunlight and Ambient Dim Light. Solar Rrl, 2020, 4, 2000046.	3.1	7
10265	Responsive Nanomaterials for Sustainable Applications. Springer Series in Materials Science, 2020, , .	0.4	2
10266	COFs-based Porous Materials for Photocatalytic Applications. Chinese Journal of Polymer Science (English Edition), 2020, 38, 673-684.	2.0	31
10267	Computational design of new organic (D- $\pi$ -A) dyes based on benzothiadiazole for photovoltaic applications, especially dye-sensitized solar cells. Research on Chemical Intermediates, 2020, 46, 3247-3262.	1.3	23
10268	Principle and surface science of photocatalysis. Interface Science and Technology, 2020, 31, 1-38.	1.6	24

#	ARTICLE	IF	CITATIONS
10269	Metal-oxide semiconductor photocatalysts for the degradation of organic contaminants. , 2020, , 23-38.		4
10270	Sensitization of vertically grown ZnO 2D thin sheets by MoSx for efficient charge separation process towards photoelectrochemical water splitting reaction. International Journal of Hydrogen Energy, 2020, 45, 12272-12282.	3.8	18
10271	Enhancement of the photoelectrochemical water splitting by perovskite BiFeO3 via interfacial engineering. Solar Energy, 2020, 202, 198-203.	2.9	49
10272	Establishing Stability in Organic Semiconductor Photocathodes for Solar Hydrogen Production. Journal of the American Chemical Society, 2020, 142, 7795-7802.	6.6	45
10273	From metal-organic frameworks to single/dual-atom and cluster metal catalysts for energy applications. Energy and Environmental Science, 2020, 13, 1658-1693.	15.6	323
10274	Environmentally friendly Mn-alloyed core/shell quantum dots for high-efficiency photoelectrochemical cells. Journal of Materials Chemistry A, 2020, 8, 10736-10741.	5.2	33
10275	ZnTe-based photocathode for hydrogen evolution from water under sunlight. APL Materials, 2020, 8, 041101.	2.2	6
10276	Retarded Charge-Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. Advanced Energy Materials, 2020, 10, 2000570.	10.2	40
10277	Tuning the Charge Carriers Migration in Epitaxial BaTiO <sub>3</sub> Thin-Film Photoanodes. Journal of Physical Chemistry C, 2020, 124, 10315-10323.	1.5	10
10278	Ferrites: emerging light absorbers for solar water splitting. Journal of Materials Chemistry A, 2020, 8, 9447-9482.	5.2	61
10279	Time-dependent density functional theory investigations on structural modification in carbazole-based organic photosensitizers to improve electron injection in dye-sensitized solar cell. International Journal of Quantum Chemistry, 2020, 120, e26253.	1.0	13
10280	Boosted Reactivity of Low-Cost Solar Cells over a CuO/Co <sub>3</sub> O <sub>4</sub> Interfacial Structure Integrated with Graphene Oxide. ACS Sustainable Chemistry and Engineering, 2020, 8, 7308-7315.	3.2	17
10281	Molecular Reaction Imaging of Single-Entity Photoelectrodes. ACS Energy Letters, 2020, 5, 1474-1486.	8.8	12
10282	A Review of Recent Progress on Silicon Carbide for Photoelectrochemical Water Splitting. Solar Rrl, 2020, 4, 2000111.	3.1	48
10283	Dye-sensitized solar cells based on TiO <sub>2</sub> nanoparticles-decorated ZnO nanorod arrays for enhanced photovoltaic performance. Journal of Materials Science: Materials in Electronics, 2020, 31, 8514-8522.	1.1	2
10284	Superior photoanode based on nanostructured TiO <sub>2</sub> @reduced graphene oxide composite with enhanced photo-to-electron conversion efficiency. Journal of Materials Science: Materials in Electronics, 2020, 31, 8618-8626.	1.1	0
10285	Enhanced electrical conductivity and multiferroic property of cobalt-doped bismuth ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2020, 31, 8727-8736.	1.1	13
10286	One-dimensional TiO <sub>2</sub> nanotube-based photocatalysts: enhanced performance by site-selective decoration. Interface Science and Technology, 2020, 31, 231-264.	1.6	0

#	ARTICLE	IF	CITATIONS
10287	Controlled nanostructured morphology of BiVO <sub>4</sub> photoanodes for efficient on-demand catalysis in solar water-splitting and sustainable water-treatment. <i>Applied Surface Science</i> , 2020, 514, 146075.	3.1	29
10288	An integrated thermoelectric-assisted photoelectrochemical system to boost water splitting. <i>Science Bulletin</i> , 2020, 65, 1163-1169.	4.3	23
10289	Novel Heteroleptic Ruthenium(II) Complexes with 2,2'-Bipyridines Containing a Series of Electron-Donor and Electron-Acceptor Substituents in 4,4'-Positions: Syntheses, Characterization, and Application as Sensitizers for ZnO Nanowire-Based Solar Cells. <i>ACS Omega</i> , 2020, 5, 8097-8107.	1.6	8
10290	Visualization of Hydrogen Evolution at Individual Platinum Nanoparticles at a Buried Interface. <i>Journal of the American Chemical Society</i> , 2020, 142, 8890-8896.	6.6	40
10291	Photoexcitation Processes in Oligomethine Cyanine Dyes for Dye-Sensitized Solar Cells—Synthesis and Computational Study. <i>Nanomaterials</i> , 2020, 10, 662.	1.9	11
10292	Integration of Fe <sub>2</sub> O <sub>3</sub> -based photoanode and atomically dispersed cobalt cathode for efficient photoelectrochemical NH <sub>3</sub> synthesis. <i>Chinese Chemical Letters</i> , 2021, 32, 805-810.	4.8	13
10293	Recent Advances in Plasmonic Nanostructures for Enhanced Photocatalysis and Electrocatalysis. <i>Advanced Materials</i> , 2021, 33, e2000086.	11.1	232
10294	High performance and toxicity assessment of Ta <sub>3</sub> N <sub>5</sub> nanotubes for photoelectrochemical water splitting. <i>Catalysis Today</i> , 2021, 361, 57-62.	2.2	3
10295	Effects of structure and electronic properties of D-π-A organic dyes on photovoltaic performance of dye-sensitized solar cells. <i>Journal of Energy Chemistry</i> , 2021, 54, 208-216.	7.1	37
10296	Numerical simulation and optimization of p-NiO/n-TiO <sub>2</sub> solar cell system using SCAPS. <i>Materials Today: Proceedings</i> , 2021, 38, 835-841.	0.9	33
10297	Controlling phase fraction and crystal orientation via thermal oxidation of iron foils for enhanced photoelectrochemical performance. <i>Catalysis Today</i> , 2021, 361, 117-123.	2.2	4
10298	Recent advances in metal halide perovskite photocatalysts: Properties, synthesis and applications. <i>Journal of Energy Chemistry</i> , 2021, 54, 770-785.	7.1	75
10299	High-throughput computational materials screening and discovery of optoelectronic semiconductors. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, .	6.2	52
10300	Atomic Sandwiched p-n Homojunctions. <i>Angewandte Chemie</i> , 2021, 133, 3529-3534.	1.6	5
10301	Vertical SrNbO <sub>2</sub> N Nanorod Arrays for Solar-Driven Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2021, 5, 2000448.	3.1	10
10302	Recent advances and prospects of D <sub>1</sub> :D <sub>2</sub> :A non-fullerene ternary polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 41-66.	2.7	23
10303	Improving the optoelectronic efficiency of novel meta-azo dye-sensitized TiO <sub>2</sub> semiconductor for DSSCs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 247, 119143.	2.0	17
10304	Voltage-assisted SILAR deposition of CdSe quantum dots to construct a high performance of ZnS/CdSe/ZnS quantum dot-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 640-646.	5.0	24



#	ARTICLE	IF	CITATIONS
10305	A Density Functional Theory and Experimental Study of CO <sub>2</sub> Photoreduction to Methanol over $\gamma$ -Sulfur-TiO <sub>2</sub> Composite. <i>Electrocatalysis</i> , 2021, 12, 56-64.	1.5	6
10306	Dimethylammonium iodide stabilized bismuth halide perovskite photocatalyst for hydrogen evolution. <i>Nano Research</i> , 2021, 14, 1116-1125.	5.8	34
10307	Bridgehead nitrogen tripodal organic dyes having multiple donor- $\pi$ -acceptor branches for solar cell applications. <i>Dyes and Pigments</i> , 2021, 186, 108985.	2.0	3
10308	"Green", gradient multi-shell CuInSe <sub>2</sub> /(CuInSexS <sub>1-x</sub> ) <sub>5</sub> /CuInS <sub>2</sub> quantum dots for photo-electrochemical hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119402.	10.8	46
10309	Enhanced photoelectrochemical water-splitting performance with a hierarchical heterostructure: Co <sub>3</sub> O <sub>4</sub> nanodots anchored TiO <sub>2</sub> @P-C <sub>3</sub> N <sub>4</sub> core-shell nanorod arrays. <i>Chemical Engineering Journal</i> , 2021, 404, 126458.	6.6	56
10310	Bifunctional photoelectrochemical process for humic acid degradation and hydrogen production using multi-layered p-type Cu <sub>2</sub> O photoelectrodes with plasmonic Au@TiO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2021, 402, 123533.	6.5	37
10311	Photocatalytic Water Splitting Utilizing Electrospun Semiconductors for Solar Hydrogen Generation: Fabrication, Modification and Performance. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 8-20.	2.0	42
10312	Influence of the donor and conjugation at D $\pi$ A organic sensitizers for dye-sensitized solar cells: a first principle study. <i>Chemical Papers</i> , 2021, 75, 197-203.	1.0	0
10313	Gas-Phase Photoelectrocatalysis Mediated by Oxygen Ions for Uphill Conversion of Greenhouse Gases. <i>ChemPhotoChem</i> , 2021, 5, 275-281.	1.5	7
10314	Enhanced photocatalytic hydrogen evolution from water splitting by Z $\pi$ S scheme $\langle \text{CdS} \rangle / \langle \text{BiFeO}_3 \rangle$ heterojunction without using sacrificial agent. <i>International Journal of Energy Research</i> , 2021, 45, 2739-2752.	2.2	32
10315	Effects of SiO <sub>2</sub> -doping on high-surface-area Ru/TiO <sub>2</sub> catalysts for the selective CO methanation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119483.	10.8	27
10316	One-pot synthesis of novel ternary Fe <sub>3</sub> N/Fe <sub>2</sub> O <sub>3</sub> /C <sub>3</sub> N <sub>4</sub> photocatalyst for efficient removal of rhodamine B and CO <sub>2</sub> reduction. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156955.	2.8	79
10317	Cobalt substituted polyoxophosphomolybdate modified TiO <sub>2</sub> for boosted photoelectrocatalytic water oxidation. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157232.	2.8	8
10318	Y-shaped organic dyes with D $\pi$ A configuration as efficient co-sensitizers for ruthenium-based dye sensitized solar cells. <i>Journal of Power Sources</i> , 2021, 481, 228952.	4.0	29
10319	Efficient and stable photoelectrochemical hydrogen generation using optimized colloidal heterostructured quantum dots. <i>Nano Energy</i> , 2021, 79, 105416.	8.2	43
10320	Metal oxide mesocrystals and mesoporous single crystals: synthesis, properties and applications in solar energy conversion. <i>Journal of Materials Science and Technology</i> , 2021, 73, 9-22.	5.6	13
10321	Oxygen vacancies activating surface reactivity to favor charge separation and transfer in nanoporous BiVO <sub>4</sub> photoanodes. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119477.	10.8	116
10322	Synthesis of Yb <sup>3+</sup> /Ho <sup>3+</sup> co-doped Y <sub>2</sub> O <sub>3</sub> nanoparticles and its application to dye sensitized solar cells. <i>Journal of Molecular Structure</i> , 2021, 1228, 129479.	1.8	12

#	ARTICLE	IF	CITATIONS
10323	Titanium dioxide nanostructures as efficient photocatalyst: Progress, challenges and perspective. <i>International Journal of Energy Research</i> , 2021, 45, 3569-3589.	2.2	85
10324	Promising pyro-photo-electric catalysis in NaNbO <sub>3</sub> via integrating solar and cold-hot alternation energy in pyroelectric-assisted photoelectrochemical system. <i>Nano Energy</i> , 2021, 79, 105485.	8.2	86
10325	The influence of Ñ-linkers configuration on properties of 10-hexylphenoxazine donor-based sensitizer for dye-sensitized solar cell application Ñ Theoretical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 102, 107779.	1.3	9
10326	Synthesis of CuTi-LDH supported on g-C <sub>3</sub> N <sub>4</sub> for electrochemical and photoelectrochemical oxygen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16414-16430.	3.8	32
10327	Hybrid structure of ionic liquid and ZnO nano clusters for potential application in dye-sensitized solar cells. <i>Journal of Molecular Liquids</i> , 2021, 322, 114538.	2.3	22
10328	Construction of CdSe polymorphic junctions with coherent interface for enhanced photoelectrocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119552.	10.8	69
10329	Two-dimensional Nanostructured Metal Oxide/Sulfide-based Photoanode for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2021, 5, 2000412.	3.1	24
10330	Tetrahedral copper(I) complexes of novel N,N-bidentate ligands and photophysical properties. <i>Inorganica Chimica Acta</i> , 2021, 514, 119999.	1.2	13
10331	The role of Al and Co co-doping on the band gap tuning of TiO <sub>2</sub> thin films for applications in photovoltaic and optoelectronic devices. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105419.	1.9	27
10332	Photoelectrochemical performance of TiO <sub>2</sub> nanotube arrays modified with Ni <sub>2</sub> P Co-catalyst. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4981-4991.	3.8	15
10333	Hollow TiO <sub>2</sub> spheres as mesoporous layer for better efficiency and stability of perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 866, 158079.	2.8	9
10334	Dye-sensitized solar cells (DSSCs) as a potential photovoltaic technology based on La <sub>2</sub> MoO <sub>6</sub> /bio-carbon hybrid composite photoanodes with ~12.5% efficiency. <i>Surfaces and Interfaces</i> , 2021, 22, 100844.	1.5	7
10335	Visible-Light-Responsive Oxyhalide PbBiO <sub>2</sub> Cl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5176-5183.	4.0	2
10336	Chalcogen-vacancy group VI transition metal dichalcogenide nanosheets for electrochemical and photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2021, 9, 101-109.	2.7	20
10337	Ultrathin Two-dimensional Nanostructures: Surface Defects for Morphology-driven Enhanced Semiconductor SERS. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5505-5511.	7.2	123
10338	Effect of temperature on the photoreactions of ethanol over Ag/TiO <sub>2</sub> in steady state catalytic conditions. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119736.	10.8	14
10339	A new heterojunction in photocatalysis: S-scheme heterojunction. <i>Chinese Journal of Catalysis</i> , 2021, 42, 667-669.	6.9	260
10340	A scalable and thin film approach for solar hydrogen generation: a review on enhanced photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1353-1371.	5.2	116

#	ARTICLE	IF	CITATIONS
10341	Effects of the coupling between electrode and QD-anthoxanthin nanocomposites for dye-sensitized solar cell: DFT and TD-DFT investigations. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113080.	2.0	16
10342	Highly Uniform, Self-Assembled AlGaIn Nanowires for Self-Powered Solar-Blind Photodetector with Fast-Response Speed and High Responsivity. <i>Advanced Optical Materials</i> , 2021, 9, 2000893.	3.6	75
10343	New approaches in component design for dye-sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 367-383.	2.5	32
10344	Theoretical design and characterization of D-A1-A based organic dyes for efficient DSSC by altering promising acceptor (A1) moiety. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113048.	2.0	28
10345	Mo-doping induced crystal orientation reconstruction and oxygen vacancy on BiVO <sub>4</sub> homojunction for enhanced solar-driven water splitting. <i>Chemical Engineering Journal</i> , 2021, 421, 127796.	6.6	45
10346	Tuning the donating strength of dye sensitizers using molecular electrostatic potential analysis. <i>New Journal of Chemistry</i> , 2021, 45, 2496-2507.	1.4	5
10347	Design of highly-active photocatalytic materials for solar fuel production. <i>Chemical Engineering Journal</i> , 2021, 421, 127732.	6.6	27
10348	Ferroelectric polarization-enhanced charge separation in quantum dots sensitized semiconductor hybrid for photoelectrochemical hydrogen production. <i>Nano Energy</i> , 2021, 81, 105626.	8.2	23
10349	Unravelling camphor mediated synthesis of TiO <sub>2</sub> nanorods over shape memory alloy for efficient energy harvesting. <i>Applied Surface Science</i> , 2021, 541, 148489.	3.1	25
10350	Materials, performance, and system design for integrated solar flow batteries – A mini review. <i>Applied Energy</i> , 2021, 282, 116210.	5.1	25
10351	The effect of long time exposure to light of a water-based ferrofluid on its low frequency complex magnetic permeability. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167635.	1.0	2
10352	How graphene strengthened molecular photoelectric performance of solar cells: A photo current-voltage assessment. <i>Solar Energy</i> , 2021, 213, 271-283.	2.9	25
10353	Using high-throughput virtual screening to explore the optoelectronic property space of organic dyes; finding diketopyrrolopyrrole dyes for dye-sensitized water splitting and solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 704-719.	2.5	15
10354	Towards full-spectrum photocatalysis: Successful approaches and materials. <i>Applied Catalysis A: General</i> , 2021, 610, 117966.	2.2	36
10355	Pt/AlGaIn Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. <i>Nano Letters</i> , 2021, 21, 120-129.	4.5	127
10356	Core-Shell-Satellite Plasmonic Photocatalyst for Broad-Spectrum Photocatalytic Water Splitting. , 2021, 3, 69-76.		59
10357	A facile strategy for fabricating particle-on-flower Au-Cu <sub>3</sub> BiS <sub>3</sub> nanostructures for enhanced photoelectrocatalytic activity in water splitting. <i>New Journal of Chemistry</i> , 2021, 45, 1231-1239.	1.4	4
10358	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6691-6698.	7.2	33

#	ARTICLE	IF	CITATIONS
10359	Unveiling the Hydration Structure of Ferrihydrite for Hole Storage in Photoelectrochemical Water Oxidation. <i>Angewandte Chemie</i> , 2021, 133, 6765-6772.	1.6	7
10360	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. <i>Angewandte Chemie</i> , 2021, 133, 5565-5571.	1.6	11
10361	Coumarin-based Dye-A dyes for efficient DSSCs: DFT and TD-DFT study of the spacer influence on photovoltaic properties. <i>Research on Chemical Intermediates</i> , 2021, 47, 875-893.	1.3	14
10362	Atomic Sandwiched $\pi$ - $\pi$ Homojunctions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3487-3492.	7.2	34
10363	Room-temperature preparation of TiO <sub>2</sub> /graphene composite photoanodes for efficient dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 326-334.	5.0	14
10364	In-situ decoration of unsaturated Cu sites on Cu <sub>2</sub> O photocathode for boosting nitrogen reduction reaction. <i>Chemical Engineering Journal</i> , 2021, 413, 127453.	6.6	31
10365	Dithienopyrrole-based anchoring dyes: Effect of molecular design and donors on the optical and photovoltaic properties. <i>Journal of Luminescence</i> , 2021, 230, 117727.	1.5	1
10366	Tuning the Proton-Coupled Electron-Transfer Rate by Ligand Modification in Catalyst-Dye Supramolecular Complexes for Photocatalytic Water Splitting. <i>ChemSusChem</i> , 2021, 14, 479-486.	3.6	7
10367	Redox-Mediated Alcohol Oxidation Coupled to Hydrogen Gas Formation in a Dye-Sensitized Photosynthesis Cell. <i>Chemistry - A European Journal</i> , 2021, 27, 218-221.	1.7	22
10368	Light-driven directional ion transport for enhanced osmotic energy harvesting. <i>National Science Review</i> , 2021, 8, nwa231.	4.6	24
10369	Interfacial Charge Transport in 1D TiO <sub>2</sub> Based Photoelectrodes for Photoelectrochemical Water Splitting. <i>Small</i> , 2021, 17, e1903378.	5.2	102
10370	Copper doped titanium dioxide for enhancing the photovoltaic behavior in solar cell. <i>Materials Today: Proceedings</i> , 2021, 35, 66-68.	0.9	8
10371	Design, Synthesis and Study of Non-Linear Optical Properties of Phenyl Bridged Diphenylamine-s-triazine Based Donor-Acceptor Triads Containing Different $\pi$ -Acceptor Groups. <i>Asian Journal of Chemistry</i> , 2021, 33, 2167-2174.	0.1	0
10372	Self-supported ultra-active NiO-based electrocatalysts for the oxygen evolution reaction by solution combustion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12700-12710.	5.2	14
10373	Inverse-designed semiconductor nanocatalysts for targeted CO <sub>2</sub> reduction in water. <i>Nanoscale</i> , 2021, 13, 10024-10034.	2.8	4
10374	Computational discovery of PtS <sub>2</sub> /GaSe van der Waals heterostructure for solar energy applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20163-20173.	1.3	19
10375	Target-switchable DNA hydrogels coupled with a Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> /Bi <sub>2</sub> S <sub>3</sub> heterojunction based on <i>in situ</i> anion exchange for the signal-on photoelectrochemical detection of DNA. <i>Nanoscale</i> , 2021, 13, 7678-7684.	2.8	25
10376	A rational design of an efficient counter electrode with the Co/Co <sub>1</sub> P <sub>1</sub> N <sub>3</sub> atomic interface for promoting catalytic performance. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3085-3092.	3.2	8

#	ARTICLE	IF	CITATIONS
10377	Recent Progress in Metal Oxide for Photovoltaic Application. , 2021, , 99-145.		0
10378	Synthesis of Novel 1,4-dihydro-1,2,4,5-tetraarylpyrrolo[3,2-b]pyrroles Derivatives Catalyzed by NbCl <sub>5</sub> and Application in Dye Sensitized Solar Cells. Materials Research, 2021, 24, .	0.6	1
10379	Development and characterization of visible light driven Ba <sub>2</sub> YBiO <sub>6</sub> photocatalyst for the degradation of organic compounds. AIP Conference Proceedings, 2021, , .	0.3	3
10380	The development of poly(ethylene oxide) reinforced with a nanocellulose-based nanocomposite polymer electrolyte in dye-sensitized solar cells. Materials Advances, 2021, 2, 5465-5470.	2.6	13
10381	Niobate-based perovskites: Characterization, preparation, and photocatalytic properties. , 2021, , 341-356.		0
10382	Comprehensive view on recent developments in hydrogen evolution using MoS <sub>2</sub> on a Si photocathode: from electronic to electrochemical aspects. Journal of Materials Chemistry A, 2021, 9, 3767-3785.	5.2	14
10383	Electrocatalytic water splitting with unprecedentedly low overpotentials by nickel sulfide nanowires stuffed into carbon nitride scabbards. Energy and Environmental Science, 2021, 14, 5358-5365.	15.6	84
10384	Reaction kinetics and interplay of two different surface states on hematite photoanodes for water oxidation. Nature Communications, 2021, 12, 255.	5.8	74
10385	A photoassisted hydrogen peroxide fuel cell using dual photoelectrodes under tandem illumination for electricity generation. Journal of Electroanalytical Chemistry, 2021, 881, 114948.	1.9	5
10386	Recent Developments in the Use of Heterogeneous Semiconductor Photocatalyst Based Materials for a Visible-Light-Induced Water-Splitting System—A Brief Review. Catalysts, 2021, 11, 160.	1.6	34
10387	Boosting the quantum efficiency of the BiVO <sub>4</sub> photoanode by increasing the oxygen vacancies for highly-efficient solar water oxidation. Dalton Transactions, 2021, 50, 12957-12962.	1.6	6
10388	The unconventional role of surface ligands in dictating the light harvesting properties of quantum dots. Journal of Materials Chemistry A, 2021, 9, 7422-7457.	5.2	18
10389	Artificial Z-scheme-based photocatalysts: design strategies and approaches. , 2021, , 165-186.		0
10390	Semiconductor @ sensitizer composites for enhanced photoinduced processes. , 2021, , 183-209.		1
10391	Atomic layer deposition of materials for solar water splitting. , 2021, , 363-380.		1
10392	Record power conversion efficiencies for iron( <sup>ii</sup> )-NHC-sensitized DSSCs from rational molecular engineering and electrolyte optimization. Journal of Materials Chemistry A, 2021, 9, 3540-3554.	5.2	25
10393	Tuning the Crystallinity and Coverage of SiO <sub>2</sub> —ZnIn <sub>2</sub> S <sub>4</sub> Core—Shell Nanoparticles for Efficient Hydrogen Generation. ACS Applied Materials & Interfaces, 2021, 13, 4043-4050.	4.0	20
10394	Crystal size-controlled growth of bismuth vanadate for highly efficient solar water oxidation. Sustainable Energy and Fuels, 2021, 5, 1129-1133.	2.5	3

#	ARTICLE	IF	CITATIONS
10395	Basics of Dye Sensitized Solar Cell and Use of Conductive Polymer as Counter Electrode. Engineering Materials, 2021, , 327-345.	0.3	2
10396	Advanced Green Building Technology. , 2021, , 129-145.		0
10397	Guest-Host Interactions in Symmetrical Carboxy Heptamethine Cyanine Dyes-Titanium Dioxide Systems: Synthesis, Theoretical Calculations, Aggregation Properties, and Application in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2021, 2021, 1-17.	1.4	1
10398	Comment and Analysis on Characteristics of Nano Alumina Materials in Different Dye-Sensitized Solar Cells. E3S Web of Conferences, 2021, 233, 01089.	0.2	0
10399	Invisible Roads and Transportation Engineering. , 2021, , 157-175.		0
10400	Enhanced optical absorption of rutile TiO <sub>2</sub> through (Sm, C) codoping: a first-principles study. Optical and Quantum Electronics, 2021, 53, 1.	1.5	11
10401	Defects and doping effects in TiO <sub>2</sub> and ZnO thin films of transparent and conductive oxides. , 2021, , 509-554.		0
10402	Structural and Electronic Properties of Various Useful Metal Oxides. , 2021, , 49-84.		0
10403	Energy Harvesters Based on Zinc Oxide. , 2021, , 605-637.		0
10404	Powering the next industrial revolution: transitioning from nonrenewable energy to solar fuels via CO <sub>2</sub> reduction. RSC Advances, 2021, 11, 87-113.	1.7	9
10405	Boosting the photoelectric conversion efficiency of DSSCs through graphene quantum dots: insights from theoretical study. Materials Chemistry Frontiers, 2021, 5, 5814-5825.	3.2	10
10406	Dirhodium(II,II)/NiO Photocathode for Photoelectrocatalytic Hydrogen Evolution with Red Light. Journal of the American Chemical Society, 2021, 143, 1610-1617.	6.6	28
10407	Impact of Diethyl carbonate in PVA based gel polymer electrolytes on dye-sensitized solar cells performance. Optical and Quantum Electronics, 2021, 53, 1.	1.5	6
10408	Carbon Fibers Coated with Ternary Ni-Co-Se Alloy Particles as a Low-Cost Counter Electrode for Flexible Dye Sensitized Solar Cells. ACS Applied Energy Materials, 2021, 4, 870-878.	2.5	22
10409	Rational synthesis of novel CuInTeSe/CdS core/shell quantum dots for optoelectronics. Nanoscale, 2021, 13, 15301-15310.	2.8	3
10410	Concisely Synthesized FeNiWO <sub>x</sub> Film as a Highly Efficient and Robust Catalyst for Electrochemical Water Oxidation. ACS Applied Energy Materials, 2021, 4, 1410-1420.	2.5	23
10411	Stable and efficient solar-driven photoelectrochemical water splitting into H <sub>2</sub> and O <sub>2</sub> based on a BaTaO <sub>2</sub> N photoanode decorated with CoO microflowers. Chemical Communications, 2021, 57, 4412-4415.	2.2	19
10412	Joint connection of experiment and simulation for photocatalytic hydrogen evolution: strength, weakness, validation and complementarity. Journal of Materials Chemistry A, 2021, 9, 6749-6774.	5.2	8

#	ARTICLE	IF	CITATIONS
10413	$\beta$ -In <sub>2</sub> S <sub>3</sub> as Water Splitting Photoanodes: Promise and Challenges. <i>Electronic Materials Letters</i> , 2021, 17, 119-135.	1.0	13
10414	Generation of a focused pressure wave and localized cavitation clouds using a metal-semiconductor Ti/black-TiO <sub>x</sub> optoacoustic lens. <i>Results in Physics</i> , 2021, 20, 103721.	2.0	4
10415	First-Principle Molecular Dynamics Simulation of Terahertz Absorptive Hydrogenated TiO <sub>2</sub> Nanoparticles. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 103-140.	0.3	0
10416	Nanomaterials via NanoSpray Combustion Chemical Vapor Condensation and Their Electronic Applications. , 2021, , 61-79.		1
10417	Multicomponent and One-pot Syntheses of Quinoxalines. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 980-1006.	2.1	55
10418	A systematic study of post-activation temperature dependence on photoelectrochemical water splitting of one-step synthesized FeOOH CF photoanodes with erratically loaded ZrO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , 2021, 5, 3414-3427.	2.5	18
10419	Molecular Devices. , 2021, , 206-240.		2
10420	Bifunctional citrate-Ni <sub>0.9</sub> Co <sub>0.1</sub> (OH) <sub>x</sub> layer coated fluorine-doped hematite for simultaneous hole extraction and injection towards efficient photoelectrochemical water oxidation. <i>Nanoscale</i> , 2021, 13, 14197-14206.	2.8	16
10421	Role of oxygen vacancy in metal oxide based photoelectrochemical water splitting. <i>EcoMat</i> , 2021, 3, e12075.	6.8	65
10422	Solar power energy derived from nanotools and devices. , 2021, , 473-503.		1
10423	Big Data analytics in Smart Grids for renewable energy networks: Systematic review of information and communication technology tools. <i>Cogent Engineering</i> , 2021, 8, .	1.1	10
10424	Trimethylsulfonium lead triiodide (TMSPbI <sub>3</sub> ) for moisture-stable perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4327-4335.	2.5	11
10425	Assessment of the energy recovery potential of waste photovoltaic (PV) modules. , 2021, , 219-238.		0
10426	Perovskite-inspired materials for photovoltaics and beyond—from design to devices. <i>Nanotechnology</i> , 2021, 32, 132004.	1.3	106
10427	Black Ti-Zr-based oxygen defective oxide film with visible light absorption prepared via atmospheric oxidation. <i>Journal of Materials Research</i> , 2021, 36, 368-375.	1.2	2
10428	Peptide-based novel small molecules and polymers: unexplored optoelectronic materials. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12462-12488.	2.7	8
10429	Stand-Alone Photoelectrochemical Energy Conversions. <i>Solar Rrl</i> , 2021, 5, 2000517.	3.1	1
10430	Synergetic effect of a polymer and metalloid composite on the electrocatalytic improvement of dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 0, , .	1.4	0

#	ARTICLE	IF	CITATIONS
10431	Synthetic, natural and bioinspired dyes as TiO <sub>2</sub> sensitizers in sustainable solar cells. , 2021, , 169-209.		0
10432	Dye-Sensitized Solar Cell. , 2021, , 325-372.		0
10433	The effect of strain on water dissociation on reduced rutile TiO <sub>2</sub> (110) surface. RSC Advances, 2021, 11, 8485-8490.	1.7	3
10434	Waste-Recovered Nanomaterials for Emerging Electrocatalytic Applications. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 247-292.	1.4	1
10435	Shielded goethite catalyst that enables fast water dissociation in bipolar membranes. Nature Communications, 2021, 12, 9.	5.8	49
10436	Structural and electronic properties of TiO <sub>2</sub> from first principles calculations. , 2021, , 67-85.		2
10437	Understanding the varying mechanisms between the conformal interlayer and overlayer in the silicon/hematite dual-absorber photoanode for solar water splitting. Dalton Transactions, 2021, 50, 2936-2944.	1.6	10
10438	Hydrogen Evolution over $\text{TiO}_2/\text{MoO}_3$ and $\text{TiO}_2/\text{MoO}_3/\text{ZnO}$ Hetero-junction. Open Journal of Physical Chemistry, 2021, 11, 144-156.	0.1	1
10439	Photoelectrochemical water splitting properties of a vertically aligned ZnO nanosheet. AIP Conference Proceedings, 2021, , .	0.3	1
10440	Hydrogen induced interface engineering in Fe <sub>2</sub> O <sub>3</sub> â€“TiO <sub>2</sub> heterostructures for efficient charge separation for solar-driven water oxidation in photoelectrochemical cells. RSC Advances, 2021, 11, 4297-4307.	1.7	16
10441	Formic acid dehydrogenation over single atom Pd-deposited carbon nanocones for hydrogen production: a mechanistic DFT study. Molecular Systems Design and Engineering, 2021, 6, 609-626.	1.7	4
10442	Advances in SnO <sub>2</sub> -based perovskite solar cells: from preparation to photovoltaic applications. Journal of Materials Chemistry A, 2021, 9, 19554-19588.	5.2	88
10443	Zinc oxide heterostructures: advances in devices from self-powered photodetectors to self-charging supercapacitors. Materials Advances, 2021, 2, 6768-6799.	2.6	19
10444	Interfacial Oxide Formation Limits the Photovoltage of $\text{SnWO}_4/\text{NiO}_x$ Photoanodes Prepared by Pulsed Laser Deposition. Advanced Energy Materials, 2021, 11, 2003183.	10.2	23
10445	Computational Screening of Organic Dye-Sensitizers for Dye-Sensitized Solar Cells: DFT/TDDFT Approach. Challenges and Advances in Computational Chemistry and Physics, 2021, , 187-205.	0.6	0
10446	Applications and Fundamentals of Photocatalysis with Solar Energy. , 2021, , 27-66.		1
10447	Core-Level Binding Energy Reveals Hydrogen Bonding Configurations of Water Adsorbed on $\text{TiO}_2(110)$ Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 92 Td (stretchy="false")		28
10448	A first-principles study on improvement of photoinjection in organic dyes. International Journal of Quantum Chemistry, 2021, 121, e26596.	1.0	1



#	ARTICLE	IF	CITATIONS
10449	Enhancement of the open-circuit voltage of the dye-sensitized solar cells using a modified ruthenium dye. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	5
10450	The impact of surface composition on the interfacial energetics and photoelectrochemical properties of BiVO <sub>4</sub> . <i>Nature Energy</i> , 2021, 6, 287-294.	19.8	108
10451	Nanoporous Cubic Silicon Carbide Photoanodes for Enhanced Solar Water Splitting. <i>ACS Nano</i> , 2021, 15, 5502-5512.	7.3	34
10452	Refined Z-scheme charge transfer in facet-selective BiVO <sub>4</sub> /Au/CdS heterostructure for solar overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 8531-8538.	3.8	23
10453	Simple in-situ functionalization of polyaniline with boroncarbonitride as potential multipurpose photocatalyst: Generation of hydrogen, organic and inorganic pollutant detoxification. <i>Nano Structures Nano Objects</i> , 2021, 25, 100667.	1.9	15
10454	Effect of Dip-Coating Cycles on the Structural and Performance of ZnO Thin Film-based DSSC. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6741-6751.	1.7	8
10455	Inorganic Frustrated Lewis Pairs in Photocatalytic CO <sub>2</sub> Reduction. <i>ChemPhotoChem</i> , 2021, 5, 495-501.	1.5	17
10456	Identifying the Activity Origin of a Cobalt Single-Atom Catalyst for Hydrogen Evolution Using Supervised Learning. <i>Advanced Functional Materials</i> , 2021, 31, 2100547.	7.8	93
10457	Cu(In,Ga)S <sub>2</sub> nanowire arrays: Self-templated synthesis and application for photoelectrochemical water splitting. <i>Materials Characterization</i> , 2021, 172, 110900.	1.9	4
10458	Review on performance analysis of P3HT:PCBM-based bulk heterojunction organic solar cells. <i>Semiconductor Science and Technology</i> , 2021, 36, 045005.	1.0	36
10459	Multifunctional Flexible Polyimides for Electroactive Devices with Electrochromic, Electrofluorochromic, and Photodetection Properties. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1338-1348.	2.0	5
10460	Emerging Technologies for Green Energy Conversion and Storage. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000152.	2.7	17
10461	Role of the Metal Oxide Electron Acceptor on Gold-Plasmon Hot-Carrier Dynamics and Its Implication to Photocatalysis and Photovoltaics. <i>ACS Applied Nano Materials</i> , 2021, 4, 2052-2060.	2.4	19
10462	Isomeric Pyrene-Porphyrins for Efficient Dye-Sensitized Solar Cells: An Unexpected Enhancement of the Photovoltaic Performance upon Structural Modification. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7152-7160.	4.0	13
10463	Nanoscale redox mapping at the MoS <sub>2</sub> -liquid interface. <i>Nature Communications</i> , 2021, 12, 1321.	5.8	19
10464	In Situ Growth of Ni-Based Metal-Organic Framework Nanosheets on Carbon Nanotube Films for Efficient Oxygen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 3439-3446.	1.9	19
10466	Enhanced performance of dye-sensitized solar cell-based g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>3</sub> PO <sub>4</sub> hybrid composites as novel electrodes fabricated by facial hydrothermal approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 5404-5414.	1.1	6
10467	Structural, Electronic, and Optical Properties of Group 6 Doped Anatase TiO <sub>2</sub> : A Theoretical Approach. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1657.	1.3	4

#	ARTICLE	IF	CITATIONS
10468	A novel Ru (II) complex with high absorbance coefficient: efficient sensitizer for dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9345-9356.	1.1	8
10469	Carbon dioxide adsorption and activation on gallium phosphide surface monitored by ambient pressure x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 234002.	1.3	2
10470	Optical Tuning of Resistance Switching in Polycrystalline Gallium Phosphide Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2327-2333.	2.1	8
10471	Charge Carrier Processes and Optical Properties in TiO <sub>2</sub> and TiO <sub>2</sub> -Based Heterojunction Photocatalysts: A Review. <i>Materials</i> , 2021, 14, 1645.	1.3	118
10472	Understanding the synergistic role of Pt-mediated MoO <sub>3</sub> photoanode with self-photorechargeability during illuminated and non-illuminated conditions: A combined experimental and density functional theory study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 120, 381-390.	2.7	5
10473	Solar to electric and "chemical energy conversion applications with the indigenously developed nickel oxide coatings. , 2021, , .		0
10474	One-Dimensional Multichannel g-C <sub>3</sub> N <sub>4.7</sub> Nanostructure Realizing an Efficient Photocatalytic Hydrogen Evolution Reaction and Its Theoretical Investigations. <i>ACS Applied Energy Materials</i> , 2021, 4, 3118-3129.	2.5	23
10475	Synthesis and Transformation of Hollow Rutile Titania Wires by Single Spinneret Electrospinning with Sol-Gel Chemistry. <i>Fibers</i> , 2021, 9, 18.	1.8	1
10476	Improving Ag <sub>2</sub> TiO <sub>2</sub> nanocomposites™ current density by TiCl <sub>4</sub> pretreated on FTO glass for dye-sensitized solar cells. <i>Micro and Nano Letters</i> , 2021, 16, 381-386.	0.6	3
10477	Photochemical and Electrochemical Strategies towards Benzylic C-H Functionalization: A Recent Update. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 1810-1834.	2.1	74
10478	General and Robust Photothermal-Heating-Enabled High-Efficiency Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2021, 33, e2004406.	11.1	104
10479	In Situ Thermal and Electricity Utilization of Photovoltaic Devices by Membrane Distillation and Electrochemical Advanced Oxidation for Desalination and Degradation of Wastewater. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000278.	2.7	9
10480	Facile Synthesis and Photoelectrochemical Performance of a Bi <sub>2</sub> S <sub>3</sub> @rGO Nanocomposite Photoanode for Efficient Water Splitting. <i>Energy &amp; Fuels</i> , 2021, 35, 6315-6321.	2.5	20
10481	Recent advances on interfacial engineering of hematite photoanodes for viable photoelectrochemical water splitting. <i>Engineering Reports</i> , 2021, 3, e12387.	0.9	14
10482	Photoelectrochemical Behavior and Computational Insights for Pristine and Doped NdFeO <sub>3</sub> Thin-Film Photocathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14150-14159.	4.0	18
10483	Chemical synthesis of orthorhombic Ag <sub>8</sub> SnS <sub>6</sub> /zinc oxide nanorods photoanodes for photoelectrochemical salt-water splitting. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10532-10548.	1.1	10
10484	Preparation of hydrogen, fluorine and chlorine doped and co-doped titanium dioxide photocatalysts: a theoretical and experimental approach. <i>Scientific Reports</i> , 2021, 11, 5700.	1.6	30
10485	Transparent and Colorless Dye-Sensitized Solar Cells Exceeding 75% Average Visible Transmittance. <i>Jacs Au</i> , 2021, 1, 409-426.	3.6	66

#	ARTICLE	IF	CITATIONS
10486	Material Design and Surface/Interface Engineering of Photoelectrodes for Solar Water Splitting. Solar Rrl, 2021, 5, 2100100.	3.1	33
10487	Air-Processed Infrared-Annealed Printed Methylammonium-Free Perovskite Solar Cells and Modules Incorporating Potassium-Doped Graphene Oxide as an Interlayer. ACS Applied Materials & Interfaces, 2021, 13, 11741-11754.	4.0	45
10489	Effect of the photoanode fabrication condition, electrolyte type and illumination type on dye-sensitized solar cells performance. Bulletin of Materials Science, 2021, 44, 1.	0.8	5
10490	Intrinsically Ru-Doped Suboxide TiO <sub>2</sub> Nanotubes for Enhanced Photoelectrocatalytic H <sub>2</sub> Generation. Journal of Physical Chemistry C, 2021, 125, 6116-6127.	1.5	21
10491	Hydrothermal Cobalt Doping of Titanium Dioxide Nanotubes towards Photoanode Activity Enhancement. Materials, 2021, 14, 1507.	1.3	5
10492	The prospects and challenges of solar electrochemical capacitors. Journal of Energy Storage, 2021, 35, 102294.	3.9	10
10493	Contribution of Ferromagnetic Medium to the Output of Triboelectric Nanogenerators Derived from Maxwell's Equations. Advanced Energy Materials, 2021, 11, 2003921.	10.2	22
10494	Performable enhancement of C220-based dyes via inserting auxiliary electron acceptors for dye-sensitized solar cells: a theoretical investigation. Journal of Computational Electronics, 2021, 20, 1277-1288.	1.3	2
10495	Triple-shell NiO hollow sphere for p-type dye-sensitized solar cell with superior light harvesting. Solar Energy, 2021, 216, 238-244.	2.9	9
10496	Light Activation of Nanocrystalline Metal Oxides for Gas Sensing: Principles, Achievements, Challenges. Nanomaterials, 2021, 11, 892.	1.9	38
10497	A molecular photosensitizer achieves a Voc of 1.24â€‰V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. Nature Communications, 2021, 12, 1777.	5.8	196
10498	Quantum Dot Sensitized Solar Cell: Photoanodes, Counter Electrodes, and Electrolytes. Molecules, 2021, 26, 2638.	1.7	11
10499	Enhancement of the Photovoltaic Potential in Mimosa pudica-Based Dye for Sensitization of the Working Electrode in the Construction of Solar Cell. Journal of Solar Energy Engineering, Transactions of the ASME, 2021, 143, .	1.1	1
10500	Mikto-Arm Stars as Soft-Patchy Particles: From Building Blocks to Mesoscopic Structures. Polymers, 2021, 13, 1114.	2.0	1
10501	Hematite Photoanodes for Water Oxidation: Electronic Transitions, Carrier Dynamics, and Surface Energetics. Angewandte Chemie, 2021, 133, 18528-18544.	1.6	8
10502	Multi-material 3D printed PLA/PA6-TiO <sub>2</sub> composite matrix: rheological, thermal, tensile, morphological and 4D capabilities. Advances in Materials and Processing Technologies, 2022, 8, 2329-2348.	0.8	5
10503	Maximizing Oxygen Evolution Performance on a Transparent NiFeO <sub>x</sub> /Ta <sub>3</sub> N <sub>5</sub> Photoelectrode Fabricated on an Insulator. ACS Applied Materials & Interfaces, 2021, 13, 16317-16325.	4.0	21
10504	Fabrication, characterization and photoelectrochemical properties of CdS/CdSe nanofilm co-sensitized ZnO nanorod arrays on Zn foil substrate. Journal of Colloid and Interface Science, 2021, 588, 269-282.	5.0	24

#	ARTICLE	IF	CITATIONS
10505	The Structural, Electronic, and Optical Properties of a Novel Multilayer Heterostructure ZnSe/AlAs/GaAs: First-Principles Study. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100034.	0.7	3
10506	Electrodeposition of cuprous oxide on a porous copper framework for an improved photoelectrochemical performance. <i>Journal of Materials Science</i> , 2021, 56, 11866-11880.	1.7	8
10507	Pristine and Janus monolayers of vanadium dichalcogenides: potential materials for overall water splitting and solar energy conversion. <i>Journal of Materials Science</i> , 2021, 56, 12270-12284.	1.7	6
10508	TiO <sub>2</sub> /rGO/Cu <sub>2</sub> O ternary hybrid for high-performance photoelectrochemical applications. <i>Applied Surface Science</i> , 2021, 544, 148832.	3.1	24
10509	Simple solvothermal approach to highly nanostructured hematite thin films. <i>Canadian Journal of Chemistry</i> , 2021, 99, 355-361.	0.6	2
10510	Fabrication of TiO <sub>2</sub> /CdS heterostructure photoanodes and optimization of light scattering to improve the photovoltaic performance of dye-sensitized solar cells (DSSCs). <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 11921-11930.	1.1	4
10511	Enhanced plasmonic photocatalytic synthesis of hydrogen peroxide at an air-liquid-solid triphasic interface. <i>Chemical Engineering Journal</i> , 2021, 410, 128342.	6.6	11
10512	Hematite Photoanodes for Water Oxidation: Electronic Transitions, Carrier Dynamics, and Surface Energetics. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18380-18396.	7.2	55
10513	MoS <sub>2</sub> /ZIF-8 derived nitrogen doped carbon (NC)-PEDOT: PSS as optically transparent counter electrode for dye-sensitized solar cells. <i>Solar Energy</i> , 2021, 218, 117-128.	2.9	13
10514	Alkali Iodide Deep Eutectic Solvents as Alternative Electrolytes for Dye Sensitized Solar Cells. <i>Sustainable Chemistry</i> , 2021, 2, 222-236.	2.2	10
10515	Biomediated synthesis, characterization, and biological applications of nickel oxide nanoparticles derived from <i>Toona ciliata</i> , <i>Ficus carica</i> and <i>Pinus roxburghii</i> . <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1461-1476.	1.7	10
10516	Improving the performance of dye-sensitized solar cells using nanoparticles and a dye produced by an Antarctic bacterium. <i>Environmental Sustainability</i> , 2021, 4, 711-721.	1.4	5
10517	Doping of MoS <sub>2</sub> by Cu and V: An Efficient Strategy for the Enhancement of Hydrogen Evolution Activity. <i>Langmuir</i> , 2021, 37, 4847-4858.	1.6	22
10518	Time-Optimized Hydrothermal Synthesis of Nano-WO <sub>3</sub> for Application as Counter Electrode in Dye-Sensitized Solar Cell. <i>Arabian Journal for Science and Engineering</i> , 0, 1.	1.7	1
10519	Natural rubber ( <i>Hevea Brasiliensis</i> )-based quasi-solid electrolyte as a potential candidate for arresting recombination and improving performance in aqueous dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 14207-14216.	1.1	7
10520	Bioinspired Hydrophilic-Hydrophobic Janus Composites for Highly Efficient Solar Steam Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19467-19475.	4.0	53
10521	Enhancement of dye-sensitized solar cell efficiency through co-sensitization of thiophene-based organic compounds and metal-based N-719. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103080.	2.3	20
10522	Bendable BiVO <sub>4</sub> -Based Photoanodes on a Metal Substrate Realized through Template Engineering for Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 16478-16484.	4.0	3

#	ARTICLE	IF	CITATIONS
10523	Efficient hydrothermal growth of high-performance MoS <sub>2</sub> /pyramid-Si photocathodes by surface hydrophilicity engineering. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	4
10524	Amorphous Domains in Black Titanium Dioxide. <i>Advanced Materials</i> , 2021, 33, e2100407.	11.1	36
10525	Cobalt selenide decorated polyaniline composite nanofibers as a newer counter electrode for dye-sensitized solar cell. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3137-3149.	1.6	7
10526	Fabrication of natural dye sensitized solar cell using tridax procumbens leaf and beetroot extract mixer as a sensitizer. <i>Materials Today: Proceedings</i> , 2022, 49, 2541-2545.	0.9	7
10527	Performance improvement of p-type dye sensitized solar cells by blending of dissimilar dyes. <i>Computational and Theoretical Chemistry</i> , 2021, 1199, 113219.	1.1	2
10528	Photocorrosion of WO <sub>3</sub> Photoanodes in Different Electrolytes. <i>ACS Physical Chemistry Au</i> , 2021, 1, 6-13.	1.9	30
10529	Self-powered ZnO/SrCoO <sub>x</sub> flexible ultraviolet detectors processed at room temperature. <i>Materials and Design</i> , 2021, 203, 109616.	3.3	19
10530	Augmentation of dye-sensitized solar cell photovoltaic conversion efficiency via incorporation of terpolymer Poly(vinyl butyral-co-vinyl alcohol-co-vinyl acetate) based gel polymer electrolytes. <i>Polymer</i> , 2021, 223, 123713.	1.8	13
10531	Highly ordered mesoporous Co <sub>3</sub> O <sub>4</sub> cubes/graphene oxide heterostructure as efficient counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16519-16527.	1.1	5
10532	Synthesis of TiO <sub>2</sub> -based photoelectrode and natural dye for dye sensitized solar cell (DSSC). <i>Journal of Physics: Conference Series</i> , 2021, 1882, 012006.	0.3	2
10533	Defect-engineered 2D/2D hBN/g-C <sub>3</sub> N <sub>4</sub> Z-scheme heterojunctions with full visible-light absorption: Efficient metal-free photocatalysts for hydrogen evolution. <i>Applied Surface Science</i> , 2021, 547, 149207.	3.1	51
10534	Understanding the Structural and Electronic Properties of Photoactive Tungsten Oxide Nanoparticles from Density Functional Theory and <i>GW</i> Approaches. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3462-3470.	2.3	14
10535	Hydropower generation by transpiration from microporous alumina. <i>Scientific Reports</i> , 2021, 11, 10954.	1.6	15
10536	Reduced graphene oxide layer on nanostructured SnS thin films for improved visible light photoelectrochemical activity. <i>Renewable Energy</i> , 2021, 169, 414-424.	4.3	17
10537	Design of sensitizer with suitable frontier molecular orbital via substitution on starburst triphenylamine derivative. <i>Journal of Molecular Modeling</i> , 2021, 27, 167.	0.8	1
10538	Fungus-mediated green synthesis of nano-silver using <i>Aspergillus sydowii</i> and its antifungal/antiproliferative activities. <i>Scientific Reports</i> , 2021, 11, 10356.	1.6	74
10539	Experimental investigation of dye sensitized solar cells, formed with obtaining thin films by using undoped and Nb-doped TiO <sub>2</sub> precursors. <i>International Journal of Energy Research</i> , 2021, 45, 16329-16338.	2.2	3
10540	Single- and co-sensitization of triphenylamine-based and asymmetrical squaraine dyes on the anatase (001) surface for DSSC applications: Periodic DFT calculations. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 104, 107833.	1.3	14

#	ARTICLE	IF	CITATIONS
10541	Oxygen Vacancy-Enhanced Photoelectrochemical Water Splitting of WO <sub>3</sub> /NiFe-Layered Double Hydroxide Photoanodes. <i>Langmuir</i> , 2021, 37, 6490-6497.	1.6	25
10542	Recent progress of bismuth vanadate-based photoelectrocatalytic water splitting. <i>Chinese Science Bulletin</i> , 2021, , .	0.4	2
10543	One-Dimensional (1D) Nanostructured Materials for Energy Applications. <i>Materials</i> , 2021, 14, 2609.	1.3	47
10544	Flexible zinc oxide photoelectrode for photo electrochemical energy conversion. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 15386-15392.	1.1	6
10545	Emergence and Evolution of Crystallization in TiO <sub>2</sub> Thin Films: A Structural and Morphological Study. <i>Nanomaterials</i> , 2021, 11, 1409.	1.9	20
10546	Recent Developments in Visible-Light-Absorbing Semitransparent Photoanodes for Tandem Cells Driving Solar Water Splitting. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100023.	2.8	16
10547	Unprecedented solar water splitting of dendritic nanostructured Bi <sub>2</sub> O <sub>3</sub> films by combined oxygen vacancy formation and Na <sub>2</sub> MoO <sub>4</sub> doping. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23702-23714.	3.8	11
10548	Thermodynamic aspects of energy conversion systems with focus on osmotic membrane and selectively permeable membrane (Donnan) systems including two applications of the Donnan potential. <i>ChemTexts</i> , 2021, 7, 1.	1.0	4
10549	Mesoporous ZnO/TiO <sub>2</sub> photoanodes for quantum dot sensitized solar cell. <i>Optical Materials</i> , 2021, 115, 111014.	1.7	17
10550	Computational Study Revealing the Influence of Surface Phenomena in p-GaAs Water-Splitting Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12478-12487.	1.5	3
10551	Synthesis and Characterization of Anatase TiO <sub>2</sub> Microspheres Self-Assembled by Ultrathin Nanosheets. <i>Materials</i> , 2021, 14, 2870.	1.3	5
10552	N719 Sensitized Solar Cell Features of Photoanodes Prepared with CDS Coated Hydrothermally Derived Anatase TiO <sub>2</sub> Nanobelts. <i>Journal of Physics: Conference Series</i> , 2021, 1916, 012231.	0.3	0
10553	Enhanced light harvesting in dye-sensitized solar cells enabled by TiO <sub>2</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> upconversion phosphor particles as solar spectral converter and light scattering medium. <i>International Journal of Energy Research</i> , 2021, 45, 16339-16348.	2.2	5
10554	Interleaved biphasic n-blended copper indium selenide photoelectrode and its application in pulse-driven photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119839.	10.8	15
10555	Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. <i>ACS Nano</i> , 2021, 15, 8537-8548.	7.3	54
10556	Effect of cobalt doping on H <sub>2</sub> generation mechanism of Mo-edge from density functional theory. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	0.5	2
10557	Microbial bioelectrochemical cells for hydrogen generation based on irradiated semiconductor photoelectrodes. <i>JPhys Energy</i> , 2021, 3, 032012.	2.3	1
10558	Detecting Benzene Vapor via a Low-Cost Nanostructured TiO <sub>2</sub> Sensor. <i>IEEE Sensors Journal</i> , 2021, 21, 13828-13836.	2.4	3

#	ARTICLE	IF	CITATIONS
10559	In Situ Analytical Techniques for the Investigation of Material Stability and Interface Dynamics in Electrocatalytic and Photoelectrochemical Applications. <i>Small Methods</i> , 2021, 5, e2100322.	4.6	22
10560	Role of Water in the Lyotropic Liquid Crystalline Lithium Iodide–Iodine–Water–C <sub>12</sub> E <sub>10</sub> Mesophase as a Gel Electrolyte in a Dye-Sensitized Solar Cell. <i>Langmuir</i> , 2021, 37, 8305-8313.	1.6	6
10562	Performance Prediction of Multiple Photoanodes Systems for Unbiased Photoelectrochemical Water Splitting. , 2021, 3, 939-946.		2
10564	Open for Bismuth: Main Group Metal-to-Ligand Charge Transfer. <i>Inorganic Chemistry</i> , 2021, 60, 10137-10146.	1.9	20
10565	Surface restoration of polycrystalline Sb <sub>2</sub> Se <sub>3</sub> thin films by conjugated molecules enabling high-performance photocathodes for photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119890.	10.8	31
10566	Ionic Liquid-Based Dye-Sensitized Solar Cells—Insights into Electrolyte and Redox Mediator Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8107-8114.	3.2	22
10567	Development and characterisation of photoelectrochemical MIS structures with RuO <sub>2</sub> /TiO <sub>2</sub> gate stacs for water oxidation. <i>Journal of Electrical Engineering</i> , 2021, 72, 203-207.	0.4	0
10568	3D nickel molybdenum oxyselenide (Ni <sub>1-x</sub> MoxOSe) nanoarchitectures as advanced multifunctional catalyst for Zn-air batteries and water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119909.	10.8	72
10570	Emerging Indoor Photovoltaic Technologies for Sustainable Internet of Things. <i>Advanced Energy Materials</i> , 2021, 11, 2100698.	10.2	117
10571	Magnetically TiO <sub>2</sub> thin film produced by stepwise oxidation of titanium metal foil. <i>Scripta Materialia</i> , 2021, 198, 113829.	2.6	5
10572	A Review of Recent Developments in Molecular Dynamics Simulations of the Photoelectrochemical Water Splitting Process. <i>Catalysts</i> , 2021, 11, 807.	1.6	7
10573	Advances in Solar Energy towards Efficient and Sustainable Energy. <i>Sustainability</i> , 2021, 13, 6295.	1.6	23
10574	Sulfur-doped graphitic carbon nitride incorporated bismuth oxychloride/Cobalt based type-II heterojunction as a highly stable material for photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 591, 85-95.	5.0	44
10575	Unbranched Hybrid Conducting Redox Polymers for Intact Chloroplast-Based Photobioelectrocatalysis. <i>Langmuir</i> , 2021, 37, 7821-7833.	1.6	15
10576	Two-Channel Model for Electron Transfer in a Dye–Catalyst–Dye Supramolecular Complex for Photocatalytic Water Splitting. <i>ChemSusChem</i> , 2021, 14, 3155-3162.	3.6	8
10577	Covalent Si–O Bonding Enables Enhanced Photoelectrochemical Performance of Cu <sub>2</sub> S/Fe <sub>2</sub> O <sub>3</sub> Heterojunction for Water Splitting. <i>Small</i> , 2021, 17, e2100320.	5.2	62
10578	Modulating the 0D/2D Interface of Hybrid Semiconductors for Enhanced Photoelectrochemical Performances. <i>Small Methods</i> , 2021, 5, e2100109.	4.6	14
10579	Grossly warped nanographene–phenothiazine nanocomposite as photoactive layer for solar cells: Insights from theoretical study. <i>Chemical Physics Letters</i> , 2021, 773, 138607.	1.2	1

#	ARTICLE	IF	CITATIONS
10580	Osteogenesis and biofilms formation on titanium surfaces submitted to oxygen plasma immersion ion implantation. <i>Research, Society and Development</i> , 2021, 10, e37210615644.	0.0	1
10581	Algae-inspired multifunctional ocean solar-energy conversion chain enabled by coordination polymers. <i>Cell Reports Physical Science</i> , 2021, 2, 100466.	2.8	9
10582	Analysis of PWM- and MPPT-solar charge controller efficiency by simulation. <i>Journal of Physics: Conference Series</i> , 2021, 1918, 022004.	0.3	1
10583	Amorphous ZrOx anti-reflective coating for improved performance of silicon solar cell devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19579-19593.	1.1	2
10584	Stochastic Collision Photoelectrochemistry for Light-Induced Electron Transfer Dynamics. <i>ChemElectroChem</i> , 2021, 8, 3221-3228.	1.7	8
10585	Morphological Engineering of Inorganic Semiconductor VIS-Light-Driven Nanocatalysts: Experimental and Theoretical Understandings. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15125-15133.	1.5	8
10586	Benzocarbazole-based Dye-sensitized solar cells (DSSCs): DFT/TD-DFT study of influence of auxiliary donors on the performance of free dye and dye-TiO <sub>2</sub> interface. <i>Research on Chemical Intermediates</i> , 2021, 47, 4257-4280.	1.3	31
10587	Optimization of photoelectrode by structural engineering for efficiency improvement of dye-sensitized solar cells at different light intensity. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159478.	2.8	2
10588	Thiophen-basierte konjugierte acetylenische Polymere mit dualen aktiven Zentren für effiziente Cokatalysator-freie photoelektrochemische Wasserreduktion im alkalischen Medium. <i>Angewandte Chemie</i> , 2021, 133, 19025-19031.	1.6	2
10589	Preliminary Investigation on Vacancy Filling by Small Molecules on the Performance of Dye-Sensitized Solar Cells: The Case of a Type-II Absorber. <i>Frontiers in Chemistry</i> , 2021, 9, 701781.	1.8	3
10590	Photophysical studies of organostannoxane supported hexafluorophore assemblies. <i>Inorganica Chimica Acta</i> , 2021, 522, 120378.	1.2	1
10591	Accelerated discovery of boron-dipyrromethene sensitizer for solar cells by integrating data mining and first principle. <i>Journal of Materiomics</i> , 2021, 7, 790-801.	2.8	7
10592	Hot-Electron Injection and Charge Carrier Lifetime Prolongation Enhance the Photoelectrochemical Performance of a Plasmonic CdS/Au Photoanode. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17109-17116.	1.5	11
10593	Aluminium-doped TiO <sub>2</sub> nanotubes with enhanced light-harvesting properties. <i>Ceramics International</i> , 2021, 47, 18358-18366.	2.3	6
10594	Indium-doped ZnO as efficient photosensitive material for sunlight driven hydrogen generation and DSSC applications: integrated experimental and computational approach. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 2279-2292.	1.2	2
10595	Enhanced interfacial interactions between Ni <sub>2</sub> Fe (hydroxy)oxides and oxygen-modified carbon substrate for efficient oxygen evolution reaction. <i>Ionics</i> , 2021, 27, 3987-3994.	1.2	4
10596	Boosting the activity of FeOOH via integration of ZIF-12 and graphene to efficiently catalyze the oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25050-25059.	3.8	7
10597	Bis(2-pyridyl)ditellane as a Precursor for [HgTe]-Based Clusters and Zwitterionic Compounds. <i>Journal of Cluster Science</i> , 0, , 1.	1.7	3



#	ARTICLE	IF	CITATIONS
10598	The structural, electronic and optical properties of ZnTe/CdSe/GaSb heterotrilinear: first-principles study. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 415104.	1.3	1
10599	Thiophene-Based Conjugated Acetylenic Polymers with Dual Active Sites for Efficient Co-Catalyst-Free Photoelectrochemical Water Reduction in Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18876-18881.	7.2	28
10600	Electric-field-promoted photo-electrochemical production of hydrogen from water splitting. <i>Journal of Molecular Liquids</i> , 2021, 342, 116949.	2.3	11
10601	TiO <sub>2</sub> @Cu <sub>2</sub> O n-n Type Heterostructures for Photochemistry. <i>Materials</i> , 2021, 14, 3725.	1.3	9
10602	Tandem photoelectrochemical and photoredox catalysis for efficient and selective aryl halides functionalization by solar energy. <i>Matter</i> , 2021, 4, 2354-2366.	5.0	24
10603	CdTe/CdSe-sensitized photocathode coupling with Ni-substituted polyoxometalate catalyst for photoelectrochemical generation of hydrogen. <i>Nano Research</i> , 2022, 15, 1347-1354.	5.8	18
10604	Quercetin-rGO based mercury-free electrode for the determination of toxic Cd (II) and Pb (II) ions using DPASV technique. <i>Environmental Research</i> , 2021, 202, 111707.	3.7	13
10605	A review of material aspects in developing direct Z-scheme photocatalysts. <i>Materials Today</i> , 2021, 47, 75-107.	8.3	188
10606	Advances in Magnetic-Field Assisted Photoelectrochemical Systems for Highly Efficient Conversion of Renewable Energy. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100446.	1.9	8
10607	Atomically controllable in-situ electrochemical treatment of metal-organic-framework-derived cobalt-embedded carbon composites for highly efficient electrocatalytic oxygen evolution. <i>Applied Surface Science</i> , 2021, 554, 149651.	3.1	11
10609	PN Heterostructure Interface-Facilitated Proton Conduction in 3C-SiC/Na <sub>0.6</sub> CoO <sub>2</sub> Electrolyte for Fuel Cell Application. <i>ACS Applied Energy Materials</i> , 2021, 4, 7519-7525.	2.5	17
10610	Facile Fabrication of a Highly Crystalline and Well-Interconnected Hematite Nanoparticle Photoanode for Efficient Visible-Light-Driven Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 39282-39290.	4.0	18
10611	The Role of Substrate on Thermal Evolution of Ag/TiO <sub>2</sub> Nanogranular Thin Films. <i>Nanomaterials</i> , 2021, 11, 2253.	1.9	4
10612	Fast Light-Cured TiO <sub>2</sub> Layers for Low-Cost Carbon-Based Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 7800-7810.	2.5	9
10613	Recent developments in polydopamine-based photocatalytic nanocomposites for energy production: Physico-chemical properties and perspectives. <i>Catalysis Today</i> , 2022, 397-399, 316-349.	2.2	26
10614	Photoelectrochemical Oxidation in Ambient Conditions Using Earth-Abundant Hematite Anode: A Green Route for the Synthesis of Biobased Polymer Building Blocks. <i>Catalysts</i> , 2021, 11, 969.	1.6	4
10615	Performance improvement of Co <sub>3</sub> O <sub>4</sub> @nHAP hybrid nanomaterial in the UV light-supported degradation of organic pollutants and photovoltaics as counter electrode. <i>Journal of Molecular Structure</i> , 2021, 1238, 130390.	1.8	8
10616	±-Fe <sub>2</sub> O <sub>3</sub> as a versatile and efficient oxygen atom transfer catalyst in combination with H <sub>2</sub> O as the oxygen source. <i>Nature Catalysis</i> , 2021, 4, 684-691.	16.1	112

#	ARTICLE	IF	CITATIONS
10617	Activation of Ni <sub>2</sub> V <sub>2</sub> O <sub>7</sub> to nonstoichiometric Ni <sub>3</sub> O <sub>8</sub> for solar-driven photoelectrochemical water oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105526.	3.3	8
10618	Hybrid Porous Crystalline Materials from Metal Organic Frameworks and Covalent Organic Frameworks. <i>Advanced Science</i> , 2021, 8, e2101883.	5.6	83
10619	2D/3D WO <sub>3</sub> /BiVO <sub>4</sub> heterostructures for efficient photoelectrocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27506-27515.	3.8	21
10620	Organic/metal-organic photosensitizers for dye-sensitized solar cells (DSSC): Recent developments, new trends, and future perceptions. <i>Dyes and Pigments</i> , 2021, 192, 109227.	2.0	100
10621	First principles calculations of electrical and optical properties of Cu <sub>3</sub> N/MoS <sub>2</sub> heterostructure with tunable bandgaps. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	2
10622	TiO <sub>2</sub> Nanotubes Architectures for Solar Energy Conversion. <i>Coatings</i> , 2021, 11, 931.	1.2	15
10623	Microwave Synthesized Functional Dyes. , 0, , .		0
10624	Enhancement of Activity and Development of Low Pt Content Electrocatalysts for Oxygen Reduction Reaction in Acid Media. <i>Molecules</i> , 2021, 26, 5147.	1.7	11
10625	A one-structure-layer PDMS/Mxenes based stretchable triboelectric nanogenerator for simultaneously harvesting mechanical and light energy. <i>Nano Energy</i> , 2021, 86, 106118.	8.2	56
10626	Vanadium based zinc spinel oxides: Potential materials as photoanode for water oxidation and optoelectronic devices. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28110-28120.	3.8	1
10627	Unravelling the bulk and interfacial charge transfer effects of molybdenum doping in BiVO <sub>4</sub> photoanodes. <i>Applied Surface Science</i> , 2021, 556, 149759.	3.1	12
10628	Exploring the screening of perylene based organic sensitizers with different lengths and functional groups of acceptors via computational spectroscopic analysis. <i>Chemical Data Collections</i> , 2021, 34, 100729.	1.1	5
10629	Direct Z-scheme WO <sub>3</sub> - nanowire-bridged TiO <sub>2</sub> nanorod arrays for highly efficient photoelectrochemical overall water splitting. <i>Journal of Energy Chemistry</i> , 2021, 59, 721-729.	7.1	42
10630	Rational Design of Two-Dimensional Binary Polymers from Heterotriangulenes for Photocatalytic Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8134-8140.	2.1	30
10631	Applications of Titanium Dioxide Materials. , 0, , .		5
10632	Nickel-copper oxide nanoflowers for highly efficient glucose electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28527-28536.	3.8	25
10635	Self-powered visible photodetector with fast-response speed and high stability based on vertical (In,Ga)N nanowires. <i>OSA Continuum</i> , 2021, 4, 2381.	1.8	8
10636	Conjugated Porous Polymers: Ground-breaking Materials for Solar Energy Conversion. <i>Advanced Energy Materials</i> , 2021, 11, 2101530.	10.2	44

#	ARTICLE	IF	CITATIONS
10637	I-V Curves of an Apigenin Dye and Their Analysis by a New Parabolic Function. <i>Frontiers in Chemistry</i> , 2021, 9, 643578.	1.8	0
10638	Low-pressure flame synthesis of carbon-stabilized TiO <sub>2</sub> -II (srilankite) nanoparticles. <i>Journal of Aerosol Science</i> , 2021, 156, 105775.	1.8	7
10639	Accessing In Situ Photocorrosion under Realistic Light Conditions: Photoelectrochemical Scanning Flow Cell Coupled to Online ICP-MS. <i>ACS Measurement Science Au</i> , 2021, 1, 74-81.	1.9	20
10640	Technological Innovations in Photochemistry for Organic Synthesis: Flow Chemistry, High-Throughput Experimentation, Scale-up, and Photoelectrochemistry. <i>Chemical Reviews</i> , 2022, 122, 2752-2906.	23.0	330
10641	Rare-Earth-Modified Titania Nanoparticles: Molecular Insight into Synthesis and Photochemical Properties. <i>Inorganic Chemistry</i> , 2021, 60, 14820-14830.	1.9	9
10642	Time-Retrenched Synthesis of BaTaO <sub>2</sub> N by Localizing an NH <sub>3</sub> Delivery System for Visible-Light-Driven Photoelectrochemical Water Oxidation at Neutral pH: Solid-State Reaction or Flux Method?. <i>ACS Applied Energy Materials</i> , 2021, 4, 9315-9327.	2.5	11
10643	Novel rare earth metal-doped one-dimensional TiO <sub>2</sub> nanostructures: Fundamentals and multifunctional applications. <i>Materials Today Sustainability</i> , 2021, 13, 100066.	1.9	66
10644	Selenium Thin-Film Solar Cells with Cadmium Sulfide as a Heterojunction Partner. <i>ACS Applied Energy Materials</i> , 2021, 4, 10697-10702.	2.5	15
10645	SolCelSim: simulation of charge transport in solar cells developed in Comsol Application Builder. <i>International Journal of Modelling and Simulation</i> , 0, , 1-11.	2.3	4
10646	Emerging two-dimensional nanocatalysts for electrocatalytic hydrogen production. <i>Chinese Chemical Letters</i> , 2022, 33, 1831-1840.	4.8	67
10647	Understanding improved photoelectrochemical performance in Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> /TiO <sub>2</sub> rod-shell nanostructures. <i>AIP Advances</i> , 2021, 11, .	0.6	1
10648	Exciton Modulation in Perylene-Based Molecular Crystals Upon Formation of a Metal-Organic Interface From Many-Body Perturbation Theory. <i>Frontiers in Chemistry</i> , 2021, 9, 743391.	1.8	2
10649	Ag/MgO Nanoparticles via Gas Aggregation Nanocluster Source for Perovskite Solar Cell Engineering. <i>Materials</i> , 2021, 14, 5507.	1.3	4
10650	ZnS-GaP Solid Solution Thin Films with Enhanced Visible-Light Photocurrent. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	4
10651	Revisiting the electronic nature of nanodiamonds. <i>Diamond and Related Materials</i> , 2021, 120, 108627.	1.8	7
10652	Photocatalytic Crystalline and Amorphous TiO <sub>2</sub> Nanotubes Prepared by Electrospinning and Atomic Layer Deposition. <i>Molecules</i> , 2021, 26, 5917.	1.7	11
10653	Plasmon-Enhanced Light Absorption in (p-i-n) Junction GaAs Nanowire Solar Cells: An FDTD Simulation Method Study. <i>Nanoscale Research Letters</i> , 2021, 16, 149.	3.1	6
10654	Performance analysis of TiO <sub>2</sub> based dye sensitized solar cell prepared by screen printing and doctor blade deposition techniques. <i>Solar Energy</i> , 2021, 226, 9-19.	2.9	26

#	ARTICLE	IF	CITATIONS
10655	Wastewater treatment with the advent of TiO <sub>2</sub> endowed photocatalysts and their reaction kinetics with scavenger effect. <i>Journal of Molecular Liquids</i> , 2021, 338, 116479.	2.3	40
10656	Enhanced Electrochemical Water Splitting Activity Using Annealed TiO <sub>2</sub> Nanoparticles As Photoanodes. <i>Journal of Electronic Materials</i> , 2021, 50, 6459-6466.	1.0	2
10657	Principles of modeling the fluorescence spectral dynamics of dye molecules in solutions. <i>Computer Physics Communications</i> , 2022, 270, 108178.	3.0	4
10658	Computational molecular design of NIR dyes with varying anchoring groups for improving the efficiency and stability of dye-sensitized solar cells. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SB1021.	0.8	2
10659	Aqueous phase synthesis of trimethylsulfoxonium lead triiodide for moisture-stable perovskite solar cells. <i>Materials Today Energy</i> , 2021, 21, 100803.	2.5	7
10660	Enhancing the Photoelectric Properties of Zinc Porphyrin Dyes by Introducing Five-Membered Heterocyclic Rings into the Electron Donor: A Density Functional Theory and Time-Dependent Density Functional Theory Study. <i>ACS Omega</i> , 2021, 6, 23551-23557.	1.6	6
10661	Simultaneously Enhanced Charge Separation and Transfer in Cocatalyst-Free Hematite Photoanode by Mo/Sn Codoping. <i>ACS Applied Energy Materials</i> , 2021, 4, 10368-10379.	2.5	16
10662	Minireview on the Evolution of Tetrathiomallate Salts as Protean Building Blocks of Catalysts and Materials for the Energy Transition: Recent Advances and Future Perspectives. <i>Energy &amp; Fuels</i> , 0, .	2.5	0
10663	Enhanced absorption process in the thin active region of GaAs based p-n structure*. <i>Chinese Physics B</i> , 2021, 30, 097803.	0.7	1
10664	Photoelectrochemical sewage treatment by sulfite activation over an optimized BiVO <sub>4</sub> photoanode to simultaneously promote PPCPs degradation, H <sub>2</sub> evolution and E. coli disinfection. <i>Chemical Engineering Journal</i> , 2021, 419, 129418.	6.6	31
10665	Mechanisms of Ssp <sup>3</sup> C-H functionalization of thiolacetic acid: A density functional theory investigation. <i>Journal of Physical Organic Chemistry</i> , 0, , e4279.	0.9	3
10666	Highly efficient gel electrolytes by end group modified PEG-based ABA triblock copolymers for quasi-solid-state dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2021, 420, 129899.	6.6	18
10667	Carbon quantum dots enriching molecular nickel polyoxometalate over CdS semiconductor for photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120214.	10.8	112
10668	Comprehensive study on dye sensitized solar cell in subsystem level to excel performance potential: A review. <i>Solar Energy</i> , 2021, 226, 192-213.	2.9	24
10669	Theoretical study on flow and radiation in tubular solar photocatalytic reactor. <i>Frontiers in Energy</i> , 2021, 15, 687.	1.2	3
10670	Design and development of defect rich titania nanostructure for efficient electrocatalyst for hydrogen evolution reaction in an acidic electrolyte. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2739-2750.	2.6	6
10671	A New Generation of Energy Harvesting Devices. , 0, , .		1
10672	Plasmon-mediated photochemical transformation of inorganic nanocrystals. <i>Applied Materials Today</i> , 2021, 24, 101125.	2.3	14

#	ARTICLE	IF	CITATIONS
10673	Influence of Surface and Structural Variations in Donor–Acceptor–Donor Sensitizers on Photoelectrocatalytic Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47499-47510.	4.0	3
10674	Hybrid titanium dioxide/sericite light scattering layer to enhance light harvesting of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2021, 390, 138820.	2.6	6
10675	A review on novel activation strategy on carbonaceous materials with special morphology/texture for electrochemical storage. <i>Journal of Energy Chemistry</i> , 2021, 60, 572-590.	7.1	49
10676	Photoreforming of Organic Waste into Hydrogen Using a Thermally Radiative CdO <sub>x</sub> /CdS/SiC Photocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47511-47519.	4.0	34
10677	The substitution of Mg <sup>2+</sup> with Mn <sup>2+/4+</sup> metal ions in chlorophyll structure isolated from <i>Gliricidia sepium</i> leaves. <i>Journal of Physics: Conference Series</i> , 2021, 2017, 012002.	0.3	2
10678	Investigation on influence of manganese nanoparticles loading in electrochemical activity of anatase titania catalysts and its role in photocatalytic performance. <i>Journal of Optics (India)</i> , 2022, 51, 246-259.	0.8	1
10679	Experimental and DFT study of natural curcumin derived dyes as n-type sensitizers. <i>Solar Energy</i> , 2021, 225, 305-315.	2.9	6
10680	Understanding the Role of Oxygen and Hydrogen Defects in Modulating the Optoelectronic Properties of P-Type Metal Oxide Semiconductors. <i>Chemistry of Materials</i> , 2021, 33, 7829-7838.	3.2	12
10681	Shining photocatalysis by gold-based nanomaterials. <i>Nano Energy</i> , 2021, 88, 106306.	8.2	64
10682	Enhanced mechanism of extracellular electron transfer between semiconducting minerals anatase and <i>Pseudomonas aeruginosa</i> PAO1 in euphotic zone. <i>Bioelectrochemistry</i> , 2021, 141, 107849.	2.4	10
10683	Influence of Bi–Cu microstructure on the photoelectrochemical performance of BiVO <sub>4</sub> photoanode for efficient water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111354.	3.0	16
10684	Applications of scaffold-based advanced materials in biomedical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116342.	5.8	11
10685	Nitrogen doped carbon quantum dots as Co-active materials for highly efficient dye sensitized solar cells. <i>Carbon</i> , 2021, 183, 169-175.	5.4	35
10686	Enhanced solar water splitting of an ideally doped and work function tuned {002} oriented one-dimensional WO <sub>3</sub> with nanoscale surface charge mapping insights. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120269.	10.8	43
10687	Hematite rhombuses for chemiresistive ozone sensors: Experimental and theoretical approaches. <i>Applied Surface Science</i> , 2021, 563, 150209.	3.1	8
10688	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatfoms as Building Blocks for Photovoltaic Energy Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 727574.	1.8	3
10689	Density functional theory investigation of the electronic and optical properties of metallo-phthalocyanine derivatives. <i>Optical Materials</i> , 2021, 120, 111315.	1.7	10
10690	The design of high performance photoanode of CQDs/TiO <sub>2</sub> /WO <sub>3</sub> based on DFT alignment of lattice parameter and energy band, and charge distribution. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 828-837.	5.0	27

#	ARTICLE	IF	CITATIONS
10691	In situ grown hierarchical NiCo <sub>2</sub> O <sub>4</sub> @MnMoO <sub>4</sub> core-shell nanoarrays on carbon cloth as high-performance counter electrode for dye-sensitized solar cells. <i>Solar Energy</i> , 2021, 227, 616-624.	2.9	7
10692	A novel perovskite ferroelectric KNbO <sub>3</sub> -Bi(Ni <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> nanofibers for photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2022, 572, 151359.	3.1	9
10693	Proton-Coupled Defects Impact O-H Bond Dissociation Free Energies on Metal Oxide Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9761-9767.	2.1	16
10694	Introducing electrostatic interaction into Ru(bda) complexes for promoting water-oxidation catalysis. <i>Journal of Molecular Structure</i> , 2021, 1242, 130745.	1.8	1
10695	Plasmonic Au-based junctions onto TiO <sub>2</sub> , gC <sub>3</sub> N <sub>4</sub> , and TiO <sub>2</sub> -gC <sub>3</sub> N <sub>4</sub> systems for photocatalytic hydrogen production: Fundamentals and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111095.	8.2	31
10696	Optimizing photovoltaic conversion of solar energy. <i>AIP Advances</i> , 2021, 11, .	0.6	6
10697	Novel Z-Scheme ZnIn <sub>2</sub> S <sub>4</sub> -based photocatalysts for solar-driven environmental and energy applications: Progress and perspectives. <i>Journal of Materials Science and Technology</i> , 2021, 87, 234-257.	5.6	104
10698	Structural and optical properties, electrochemical impedance spectroscopy, and Mott-Schottky analysis of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticle-decorated V <sub>2</sub> O <sub>5</sub> rectangular nanosheets for photoelectrochemical applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106131.	3.3	22
10699	High efficiency photoelectrochemical hydrogen generation using eco-friendly Cu doped Zn-In-Se colloidal quantum dots. <i>Nano Energy</i> , 2021, 88, 106220.	8.2	23
10700	Enhanced photoelectrocatalytic hydrogen production performance of porous MoS <sub>2</sub> /PPy/ZnO film under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35219-35229.	3.8	16
10701	MXene-based mixed-dimensional Schottky heterojunction towards self-powered flexible high-performance photodetector. <i>Materials Today Physics</i> , 2021, 21, 100479.	2.9	13
10702	D- $\pi$ -A-structured organic sensitizers with $\pi$ -extended auxiliary acceptor units for high-performance dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2021, 195, 109681.	2.0	24
10703	Acid@base co-sensitization strategy for highly efficient dye-sensitized solar cells. <i>Optical Materials</i> , 2021, 121, 111528.	1.7	10
10704	Rational design of colloidal AgGaS <sub>2</sub> /CdSeS core/shell quantum dots for solar energy conversion and light detection. <i>Nano Energy</i> , 2021, 89, 106392.	8.2	39
10705	Localized surface plasmon-enhanced photoelectrochemical water oxidation by inorganic/organic nano-heterostructure comprising NDI-based D-A-D type small molecule. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 803-815.	5.0	11
10706	A universal strategy boosting photoelectrochemical water oxidation by utilizing MXene nanosheets as hole transfer mediators. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120268.	10.8	35
10707	Chemo-phototronic effect induced electricity for enhanced self-powered photodetector system based on ZnO nanowires. <i>Nano Energy</i> , 2021, 89, 106449.	8.2	21
10708	Construction of THPP-sg-PSf/TiO <sub>2</sub> membrane as photocatalyst for enhanced photoinduced hydrogen evolution. <i>Applied Surface Science</i> , 2021, 566, 150667.	3.1	11

#	ARTICLE	IF	CITATIONS
10709	The ZnO@Au-Titanium oxide nanotubes (TiNTs) composites photocatalysts for CO <sub>2</sub> reduction application. <i>Ceramics International</i> , 2021, 47, 30020-30029.	2.3	9
10710	Plasmon-enhanced dye-sensitized solar cells through porphyrin-silver nanoparticle hybrid structures: Experimental and computational studies. <i>Journal of Power Sources</i> , 2021, 511, 230407.	4.0	6
10711	Physico-chemical interpretations of the adsorption isotherms of D <sup>+</sup> sensitizers with pyridyl group on TiO <sub>2</sub> for dye sensitized solar cells using statistical physics and density functional theory. <i>Journal of Materials Research and Technology</i> , 2021, 15, 369-383.	2.6	11
10712	Highly efficient and stable g-C <sub>3</sub> N <sub>4</sub> decorated Ta <sub>3</sub> N <sub>5</sub> nanotube on n-Si substrate for solar water oxidation. <i>Applied Surface Science</i> , 2021, 565, 150456.	3.1	8
10713	Near-infrared, eco-friendly ZnAgInSe quantum dots-sensitized graphene oxide-TiO <sub>2</sub> hybrid photoanode for high performance photoelectrochemical hydrogen generation. <i>Chemical Engineering Journal</i> , 2021, 426, 131298.	6.6	21
10714	Effect of the potassium iodide in tetrapropyl ammonium iodide-polyvinyl alcohol based gel polymer electrolyte for dye-sensitized solar cells. <i>Optik</i> , 2021, 247, 167978.	1.4	8
10715	One-step electrodeposition of ZnO/graphene composite film as photoanode for dye-sensitized solar cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127491.	2.3	8
10716	Fabrication of multilayer 1D TiO <sub>2</sub> /CdS/ZnS with high photoelectrochemical performance and enhanced stability. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161329.	2.8	18
10717	Visible light-induced, highly responsive, below lower explosive limit (LEL) LPG sensor based on hydrothermally synthesized barium hexaferrite nanorods. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130714.	4.0	20
10718	Label-free photoelectrochemical immunosensor based on sensitive photocatalytic surface of Sn doped ZnO for detection of hepatitis C (HCV) anticore mAbs 19D9D6. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127586.	2.3	3
10719	Recent advances in graphitic carbon nitride semiconductor: Structure, synthesis and applications. <i>Materials Science in Semiconductor Processing</i> , 2022, 137, 106181.	1.9	49
10720	Enhanced dye-sensitized solar cell performance using strontium titanate perovskite integrated photoanodes modified with plasmonic silver nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161693.	2.8	17
10721	PMN-PT nanoparticle/SnO <sub>2</sub> nanofiber heterostructures: Enhanced photocatalytic degradation performance by ultrasonic wave induced piezoelectric field. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161769.	2.8	21
10722	Self-motivated, thermally oxidized hematite nanoflake photoanodes: Effects of pre-polishing and ZrO <sub>2</sub> passivation layer. <i>Journal of Energy Chemistry</i> , 2022, 65, 415-423.	7.1	11
10723	Size effect of band gap in semiconductor nanocrystals and nanostructures from density functional theory within HSE06. <i>Materials Science in Semiconductor Processing</i> , 2022, 137, 106214.	1.9	25
10724	Heat-resistant TiO <sub>2</sub> nanocomposites with anatase phase as carriers for highly efficient CO oxidation catalysts. <i>Materials Research Bulletin</i> , 2022, 145, 111538.	2.7	4
10725	Enhanced Photoelectrocatalytic Degradation Activity of Titanium Dioxide Photoelectrode: Effect of Film Thickness. <i>Colloid Journal</i> , 2021, 83, 107-115.	0.5	5
10726	Applications of TiO <sub>2</sub> in sensor devices. , 2021, , 527-581.		4

#	ARTICLE	IF	CITATIONS
10727	Solid-state redox couple mediated water splitting. Dalton Transactions, 2021, 50, 2722-2725.	1.6	5
10728	Copper oxide-based cathode for direct NADPH regeneration. Scientific Reports, 2021, 11, 180.	1.6	9
10729	Eco-friendly dye sensitized solar cell using natural dye with solid polymer electrolyte as hole transport material. Materials Today: Proceedings, 2021, 34, 760-766.	0.9	7
10730	Doped Metal Oxide Thin Films for Dye-Sensitized Solar Cell and Other Non-Dye-Loaded Photoelectrochemical (PEC) Solar Cell Applications. , 2021, , 235-260.		0
10731	Timor natural clay as TiO <sub>2</sub> modifier to enhance DSSC efficiency using dye chlorophyll from Leucaena leucocephala (Lam.), chromolaena odorata and lannea coromandelica leaves. AIP Conference Proceedings, 2021, , .	0.3	0
10732	Remarkable synergy of borate and interfacial hole transporter on BiVO <sub>4</sub> photoanodes for photoelectrochemical water oxidation. Materials Advances, 2021, 2, 4323-4332.	2.6	12
10733	TiO <sub>2</sub> Photoanodes Sensitized with Bi <sub>2</sub> Se <sub>3</sub> Nanoflowers for Visible-Near-Infrared Photoelectrochemical Water Splitting. ACS Applied Nano Materials, 2021, 4, 739-745.	2.4	27
10734	Unveiling the enhanced electrocatalytic activity at electrochemically synthesized Pt/WO <sub>3</sub> hybrid nanostructure interfaces. Chemical Communications, 2021, 57, 11165-11168.	2.2	5
10735	Effect of 1-Substituted 2-(Pyridin-2-yl)-1H-Benzimidazole Ligand-Coordinated Copper and Cobalt Complex Redox Electrolytes on Performance of Ru(II) Dye-Based Dye-Sensitized Solar Cells. Inorganic Chemistry, 2021, 60, 1937-1947.	1.9	29
10736	Understanding and Countering Illumination-Sensitive Dark Current: Toward Organic Photodetectors with Reliable High Detectivity. ACS Nano, 2021, 15, 1753-1763.	7.3	52
10737	Tuning the composition of heavy metal-free quaternary quantum dots for improved photoelectrochemical performance. Journal of Materials Chemistry A, 2021, 9, 5825-5832.	5.2	15
10738	Naphthalimide-phenothiazine based A <sup>+</sup> -D <sup>-</sup> -A featured organic dyes for dye sensitized solar cell applications. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 404, 112820.	2.0	19
10739	Comparison of homogeneous and heterogeneous catalysts in dye-sensitized photoelectrochemical cells for alcohol oxidation coupled to dihydrogen formation. Sustainable Energy and Fuels, 2021, 5, 5707-5716.	2.5	10
10740	Chalcogenides-based nanomaterials for solar cells and dye sensitized solar cells. , 2021, , 185-218.		0
10741	New materials for water-splitting. Interface Science and Technology, 2021, 32, 791-870.	1.6	5
10742	Determination of the valence band edge of Fe oxide nanoparticles dispersed in aqueous solution through resonant photoelectron spectroscopy from a liquid microjet. Nanoscale Advances, 2021, 3, 4513-4518.	2.2	2
10743	Effect of Au Nanoparticles and Scattering Layer in Dye-Sensitized Solar Cells Based on Freestanding TiO <sub>2</sub> Nanotube Arrays. Nanomaterials, 2021, 11, 328.	1.9	5
10744	Metal oxide nanofillers introduced polymer-based composites with advanced optical, optoelectronic, and electrical energy storage functionalities. , 2021, , 51-89.		3



#	ARTICLE	IF	CITATIONS
10746	Evaluation of photoanode materials used in biophotovoltaic systems for renewable energy generation. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4209-4232.	2.5	20
10747	Lignocellulose-derived hydrogel/aerogel-based flexible quasi-solid-state supercapacitors with high-performance: a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14233-14264.	5.2	55
10748	A Combined Experimental and Computational Study of Chrysanthemine as a Pigment for Dye-Sensitized Solar Cells. <i>Molecules</i> , 2021, 26, 225.	1.7	6
10749	Electropolymerization of poly(spiroBiProDOT) on counter electrodes for platinum-free dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12094-12101.	2.7	5
10750	A bias-free CuBi <sub>2</sub> O <sub>4</sub> –CuWO <sub>4</sub> tandem cell for solar-driven water splitting. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3863-3870.	3.0	10
10751	Organic materials as photocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16222-16232.	5.2	50
10752	Photoelectrochemical hydrogen evolution using CdTe <sub>x</sub> S <sub>1-x</sub> quantum dots as sensitizers on NiO photocathodes. <i>Dalton Transactions</i> , 2021, 50, 696-704.	1.6	11
10753	Improving light absorption and photoelectrochemical performance of thin-film photoelectrode with a reflective substrate. <i>RSC Advances</i> , 2021, 11, 16600-16607.	1.7	5
10754	Revealing the contribution of singlet oxygen in the photoelectrochemical oxidation of benzyl alcohol. <i>Sustainable Energy and Fuels</i> , 2021, 5, 956-962.	2.5	18
10755	An Overview of the Photocatalytic Water Splitting over Suspended Particles. <i>Catalysts</i> , 2021, 11, 60.	1.6	35
10756	Solar water oxidation using TaON–BiVO <sub>4</sub> photoanodes functionalized with WO <sub>3</sub> . <i>Dalton Transactions</i> , 2021, 50, 1780-1787.	1.6	4
10761	Block Copolymers as Templates for the Generation of Mesoporous Inorganic Materials. , 0, , 291-307.		3
10762	Quantum Dots–Based Photoelectrochemical Hydrogen Evolution from Water Splitting. <i>Advanced Energy Materials</i> , 2021, 11, 2003233.	10.2	51
10763	Fundamental Aspects of Xanthene Dye Aggregation on the Surfaces of Nanocluster Polyoxometalates: H <sub>2</sub> O to H <sub>2</sub> O <sub>2</sub> Aggregate Switching. <i>Chemistry - A European Journal</i> , 2020, 26, 5685-5693.	1.7	15
10764	Simple and Enhanced Thermal Immobilization of Gold Nanoparticles on TiO <sub>2</sub> -coated ITO Electrodes for Photoelectrochemical Water Oxidation. <i>ChemistrySelect</i> , 2017, 2, 7678-7683.	0.7	5
10765	Nano-Structured Materials for a Hydrogen Economy. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2005, , 251-258.	0.1	3
10766	Surface Forces and Nanorheology of Molecularly Thin Films. , 2005, , 389-481.		7
10767	Recent Applications of Nanoscale Materials: Solar Cells. <i>Nanostructure Science and Technology</i> , 2009, , 1-31.	0.1	1

#	ARTICLE	IF	CITATIONS
10768	Assembly and Properties of Nanoparticles. Nanostructure Science and Technology, 2009, , 33-79.	0.1	3
10769	Photoelectrolysis. , 2008, , 115-190.		4
10770	Oxide Semiconductors Nano-Crystalline Tubular and Porous Systems. , 2008, , 257-369.		3
10771	Photo-Electrochemical Production of Hydrogen. , 2008, , 121-142.		5
10772	Mesostructured Thin Film Oxides. , 2010, , 255-279.		2
10773	Harvesting Solar Energy Using Inexpensive and Benign Materials. , 2012, , 1217-1261.		2
10774	Quantum Dot-Sensitized, Three-Dimensional Nanostructures for Photovoltaic Applications. , 2011, , 413-446.		1
10775	Nanostructured $\text{TiO}_2/\text{Fe}_2\text{O}_3$ Photoanodes. Kluwer International Series in Electronic Materials: Science and Technology, 2012, , 121-156.	0.3	11
10776	Multijunction Approaches to Photoelectrochemical Water Splitting. Kluwer International Series in Electronic Materials: Science and Technology, 2012, , 205-273.	0.3	6
10777	Optoelectronic Applications of Colloidal Quantum Dots. , 2012, , 351-367.		3
10778	Photovoltaics photovoltaic (PV) , Status of. , 2013, , 174-211.		3
10779	Mesoscopic Solar Cells. , 2013, , 79-96.		1
10780	Electrochemical Synthesis of Metal Oxides for Energy Applications. Modern Aspects of Electrochemistry, 2014, , 217-239.	0.2	5
10781	Hydrogen Production from Photoelectrochemical Water Splitting. , 2018, , 1-52.		6
10782	Hydrogen Production from Photoelectrochemical Water Splitting. , 2019, , 1003-1053.		5
10783	Perspective of Nanomaterials in the Performance of Solar Cells. , 2020, , 25-54.		4
10785	Artificial Photosynthesis: From Molecular to Hybrid Nanoconstructs. , 2015, , 71-98.		6
10787	Synthesis of Nano-size Particles in Thermal Plasmas. , 2017, , 1-38.		3

#	ARTICLE	IF	CITATIONS
10788	Nanostructured Chalcogenides. , 2017, , 105-157.		4
10789	Titania and Its Outstanding Properties: Insights from First Principles Calculations. , 2020, , 29-51.		2
10790	Electrochemistry: A Powerful Tool for Preparation of Semiconductor Materials for Decontamination of Organic and Inorganic Pollutants, Disinfection, and CO <sub>2</sub> Reduction. , 2017, , 239-269.		1
10791	Aggregation-Induced Emitters in Light Harvesting. , 2019, , 479-504.		2
10792	Surface Forces and Nanorheology of Molecularly Thin Films. , 2007, , 859-924.		10
10793	Quantum Dynamics of Ultrafast Molecular Processes in a Condensed Phase Environment. Springer Series in Chemical Physics, 2007, , 195-221.	0.2	1
10794	A Novel Type of Solar Cell Based on Visible-Light Responsive Photocatalyst Films. , 2008, , 1329-1333.		3
10795	Surface Forces and Nanorheology of Molecularly Thin Films. , 2010, , 857-922.		10
10796	Surface Forces and Nanorheology of Molecularly Thin Films. , 2011, , 107-202.		22
10797	In-situ Characterization of Molecular Processes in Liquids by Ultrafast X-ray Absorption Spectroscopy. Springer Series in Materials Science, 2014, , 1-38.	0.4	6
10798	Surface Forces and Nanorheology of Molecularly Thin Films. , 2004, , 543-603.		2
10799	Environmental Life Cycle Analysis of Nonconventional Thin-Film Photovoltaics: The Case of Dye-Sensitized Solar Devices. , 2015, , 195-210.		2
10800	Plasmonically Enhanced Dye-Sensitized Solar Cells. Challenges and Advances in Computational Chemistry and Physics, 2013, , 125-147.	0.6	3
10801	Conducting Polymers as Cost Effective Counter Electrode Material in Dye-Sensitized Solar Cells. Energy, Environment, and Sustainability, 2020, , 345-371.	0.6	8
10802	ZnO Nanocrystalline Metal Oxide Semiconductor Via Sol Gel Method. SpringerBriefs in Materials, 2014, , 1-8.	0.1	1
10803	Process optimization of dye-sensitized solar cells using $\text{TiO}_2$ TiO <sub>2</sub> @graphene nanocomposites. Bulletin of Materials Science, 2017, 40, 1371-1377.	0.8	18
10804	Basella alba rubra spinach pigment-sensitized TiO <sub>2</sub> thin film-based solar cells. Applied Nanoscience (Switzerland), 2015, 5, 297-303.	1.6	1
10805	Green organic synthesis by photochemical protocol. , 2020, , 155-198.		4

#	ARTICLE	IF	CITATIONS
10806	Electrospray preparation of CuInS <sub>2</sub> films as efficient counter electrode for dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2020, 397, 125463.	6.6	31
10807	Electrodeposited MoS <sub>2</sub> as electrocatalytic counter electrode for quantum dot- and dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 260, 716-725.	2.6	41
10808	Hybrid graphene/metal oxide anodes for efficient and stable dye sensitized solar cell. <i>Electrochimica Acta</i> , 2020, 349, 136409.	2.6	32
10809	Fluorine doped copper tungsten nanoflakes with enhanced charge separation for efficient photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2020, 352, 136471.	2.6	12
10810	N-I co-doped TiO <sub>2</sub> compact film as a highly effective n-type electron blocking layer for solar cells. <i>Journal of Alloys and Compounds</i> , 2020, 837, 155555.	2.8	5
10811	New organic dyes with varied arylamine donors as effective co-sensitizers for ruthenium complex N719 in dye sensitized solar cells. <i>Journal of Power Sources</i> , 2020, 451, 227776.	4.0	47
10812	Synthesis and characterization of nanostructured La-doped BaSnO <sub>3</sub> for dye-sensitized solar cell application. <i>Materials Chemistry and Physics</i> , 2020, 250, 123137.	2.0	20
10813	Photocatalytic decomposition of gaseous methanol over anodized iron oxide nanotube arrays in high vacuum. <i>Materials Research Bulletin</i> , 2018, 99, 367-376.	2.7	10
10814	BiVO <sub>4</sub> /TiO <sub>2</sub> core-shell heterostructure: wide range optical absorption and enhanced photoelectrochemical and photocatalytic performance. <i>Materials Today Chemistry</i> , 2020, 17, 100283.	1.7	25
10815	Au/TiO <sub>2</sub> (P25)-gC <sub>3</sub> N <sub>4</sub> composites with low gC <sub>3</sub> N <sub>4</sub> content enhance TiO <sub>2</sub> sensitization for remarkable H <sub>2</sub> production from water under visible-light irradiation. <i>Nano Energy</i> , 2020, 75, 104888.	8.2	53
10816	Biphasic TiO <sub>2</sub> nanoleafed nanorod electrode for dye-sensitized solar cell. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 123, 114206.	1.3	5
10817	Zn <sub>1-x</sub> Mg <sub>x</sub> O second buffer layer of Cu <sub>2</sub> Sn <sub>1-x</sub> GexS <sub>3</sub> thin-film solar cell for minimizing carrier recombination and open-circuit voltage deficit. <i>Solar Energy</i> , 2020, 204, 769-776.	2.9	4
10818	The influence of CdS intermediate layer on CdSe/CdS co-sensitized free-standing TiO <sub>2</sub> nanotube solar cells. <i>Superlattices and Microstructures</i> , 2018, 113, 696-705.	1.4	10
10819	Recent advances in optical biosensors for the detection of cancer biomarker $\hat{\alpha}$ -fetoprotein (AFP). <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115920.	5.8	51
10821	Titanium Dioxide Nanomaterials: Synthesis, Properties, Modifications, and Applications. <i>Chemical Reviews</i> , 2007, 107, 2891-2959.	23.0	658
10822	Photoelectrochemical Water Splitting: Thermal Annealing Challenges on Hematite Nanowires. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12897-12911.	1.5	24
10823	Shallow Valence Band of Rutile GeO <sub>2</sub> and P-type Doping. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25721-25728.	1.5	18
10824	Fully Boron-Sheet-Based Field Effect Transistors from First-Principles: Inverse Design of Semiconducting Boron Sheets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 576-584.	2.1	14

#	ARTICLE	IF	CITATIONS
10825	Graphene-Based Interconnects for Stable Dye-Sensitized Solar Modules. ACS Applied Energy Materials, 2021, 4, 98-110.	2.5	9
10826	Novel Bioelectrocatalytic Strategies Based on Immobilized Redox Metalloenzymes on Tailored Electrodes. ACS Symposium Series, 2020, , 207-229.	0.5	2
10827	BiVO <sub>4</sub> -Based Photoanodes for Photoelectrochemical Water Splitting. ACS Symposium Series, 2020, , 137-167.	0.5	4
10828	Photopolymers for Third-generation Solar Cells. RSC Polymer Chemistry Series, 2018, , 504-523.	0.1	1
10829	Strong Photon-Induced Molecule Coupling Fields for Chemical Reactions. , 2011, , 228-255.		2
10830	Hierarchical Nanostructures for Photo-Electro-Chemical Cells. RSC Nanoscience and Nanotechnology, 2014, , 174-203.	0.2	1
10831	Efficient hydrogen evolution from water using CdTe photocathodes under simulated sunlight. Journal of Materials Chemistry A, 2017, 5, 13154-13160.	5.2	38
10832	Enhanced charge collection with passivation of the tin oxide layer in planar perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 12729-12734.	5.2	103
10833	Electrochemical and photoelectrochemical water splitting with a CoO <sub>x</sub> catalyst prepared by flame assisted deposition. Dalton Transactions, 2020, 49, 588-592.	1.6	3
10834	Two dimensional ZnO/AlN composites used for photocatalytic water-splitting: a hybrid density functional study. RSC Advances, 2019, 9, 36234-36239.	1.7	12
10835	More than protection: the function of TiO <sub>2</sub> interlayers in hematite functionalized Si photoanodes. Physical Chemistry Chemical Physics, 2020, 22, 28459-28467.	1.3	3
10836	A photoanode with plasmonic nanoparticles of earth abundant bismuth for photoelectrochemical reactions. Nanoscale Advances, 2020, 2, 5591-5599.	2.2	15
10837	Synthesis and characterization of an Fe <sub>2</sub> O <sub>3</sub> /ZnTe heterostructure for photocatalytic degradation of Congo red, methyl orange and methylene blue. RSC Advances, 2020, 10, 44997-45007.	1.7	15
10838	Contrôle optique de la croissance et de la diffusion de nanoparticules métalliques au sein de matrices nanoporeuses de TiO <sub>2</sub> . , 2013, , .		1
10839	Band alignment of Fe <sub>2</sub> -(Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> alloys via atomic solid-state energy scale approach. AIP Advances, 2020, 10, 125321.	0.6	9
10840	Ag nanoparticles decorated urchin-like cobalt carbonate hydroxide composites for highly efficient oxygen evolution reaction. Nanotechnology, 2020, 31, 475402.	1.3	11
10841	Modelling electrochemical systems with finite field molecular dynamics. JPhys Energy, 2020, 2, 032005.	2.3	38
10842	Formation and stability of reduced TiO <sub>2</sub> layers on anatase TiO <sub>2</sub>	0.9	11

#	ARTICLE	IF	CITATIONS
10843	Deep vs shallow nature of oxygen vacancies and consequent $n$ -type carrier concentrations in transparent conducting oxides. Physical Review Materials, 2018, 2, copy in the adsorption energy of $C$ on anatase $TiO_2$ . Physical Review Materials, 2018, 2, .	0.9	73
10844	Enabling Pt-free photocatalytic hydrogen evolution on polymeric melon: Role of amorphization for overcoming the limiting factors. Physical Review Materials, 2018, 2, .	0.9	9
10845	Electronic and optical properties of doped $TiO_2$ by many-body perturbation theory. Physical Review Materials, 2019, 3, .	0.9	7
10846	Adsorption of Phthalocyanines on Stoichiometric and Reduced Rutile $TiO_2$ (110). ECS Journal of Solid State Science and Technology, 2020, 9, 061021.	0.9	3
10847	Tin and Oxygen-Vacancy Co-doping into Hematite Photoanode for Improved Photoelectrochemical Performances. Nanoscale Research Letters, 2020, 15, 54.	3.1	22
10849	Selective Soxhlets extraction to enhance solubility of newly-synthesized poly(indoloindole-selenophene vinylene selenophene) donor for photovoltaic applications. Nano Convergence, 2020, 7, 9.	6.3	9
10850	Nanostructured Organic Solar Cells. , 2010, , 147-185.		2
10851	Application of Multiporphyrin Arrays to Solar Energy Conversion. , 2012, , 439-498.		1
10852	DFT and TD-DFT Calculations of Some Metal Free Phthalonitrile Derivatives for Enhancement of the Dye Sensitized Solar Cells. Acta Physica Polonica A, 2011, 119, 395-404.	0.2	9
10853	Study of Ti, V and Their Oxides-Based Thin Films in the Search for Hydrogen Storage Materials. Acta Physica Polonica A, 2015, 128, 431-440.	0.2	4
10854	Exploiting defects in $TiO_2$ inverse opal for enhanced photoelectrochemical water splitting. Optics Express, 2019, 27, 761.	1.7	37
10855	Hydrothermal Synthesis, Characterization and Dielectric Properties of Zirconia Nanoparticles. Material Science & Engineering International Journal, 2017, 1, .	0.0	7
10856	Oxidation Potentials of Human Eumelanosomes and Pheomelanosomes. Photochemistry and Photobiology, 2005, 81, 145.	1.3	67
10857	Synthesis of $Cu^{+}$ /bipyridyl Based Complex Towards Dye Sensitized Solar Cell Application. Communications in Physics, 2016, 26, 165.	0.0	1
10858	Reduced Graphene Oxide Decorated $TiO_2$ for Improving Dye-Sensitized Solar Cells (DSSCs). Current Nanoscience, 2019, 15, 631-636.	0.7	10
10859	Structural and optical studies of $TiO_2:Ag_2O$ nanocomposite by sol-gel method. Materials Science-Poland, 2020, 38, 263-270.	0.4	1
10860	Recyclable PhotoFuel Cell for Use of Acidic Water as a Medium. Oil and Gas Science and Technology, 2015, 70, 853-862.	1.4	5

#	ARTICLE	IF	CITATIONS
10861	An Overview of the Operational Principles, Light Harvesting and Trapping Technologies, and Recent Advances of the Dye Sensitized Solar Cells (Review). Applied Solar Energy (English Translation of) Tj ETQq0 0 0 rgBTj, Overlock 4.0 Tf 50 7		
10862	The New Design of Dye-Sensitized Solar Cell Adopted by Sputter Deposition of Counter Electrode. Shinku/Journal of the Vacuum Society of Japan, 2007, 50, 358-361.	0.2	1
10863	Optical and photocatalytic properties of photoactive paper with polycrystalline TiO <sub>2</sub> nanopigment for optimal product design. Tappi Journal, 2012, 11, 33-38.	0.2	8
10864	Effects of Growth Temperature on the Physicochemical and Photoelectrochemical Properties of a Modified Chemical Bath Deposited Fe <sub>2</sub> O <sub>3</sub> Photoelectrode. Journal of Korean Institute of Metals and Materials, 2020, 58, 263-271.	0.4	2
10866	Towards the Development of Functionalized Polypyridine Ligands for Ru(II) Complexes as Photosensitizers in Dye-Sensitized Solar Cells (DSSCs). Molecules, 2014, 19, 12421-12460.	1.7	58
10867	Advanced Nano-Structured Materials for Photocatalytic Water Splitting. Journal of Electrochemical Science and Technology, 2016, 7, 1-12.	0.9	25
10868	PHOTOCATALYTIC ACTIVE SELF-CLEANING CEMENT-BASED MATERIALS. COMPOSITIONS, PROPERTIES, APPLICATION. Bulletin of Belgorod State Technological University Named After V G Shukhov, 2020, , 16-25.	0.1	4
10869	Reactive Inorganic Vapor Deposition of Perovskite Oxynitride Films for Solar Energy Conversion. Research, 2019, 2019, 9282674.	2.8	17
10870	PREPARATION OF MESOPOROUS ZnO MICROSPHERES AND THEIR APPLICATION IN DYE-SENSITIZED SOLAR CELLS. Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves, 2010, 29, 1-5.	0.2	1
10871	Tunable Fabrication of TiO <sub>2</sub> Nanotube Arrays with High Aspect Ratio and its Application in Dye Sensitized Solar Cell. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2009, 24, 897-901.	0.6	10
10872	Development of Titania Nanotubes Loaded with Au Nanoparticles and their Opto-electronic Response under UV Light. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2010, 25, 557-560.	0.6	2
10873	Effect of Li-doped TiO <sub>2</sub> Compact Layers for Dye Sensitized Solar Cells. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 819-822.	0.6	9
10874	Monolithic Module Design and Behavior Improvement of Large Area Dye-sensitized Solar Cell. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 1261-1265.	0.6	1
10875	Progress on TiO <sub>2</sub> -based Nanomaterials and Its Utilization in the Clean En-ergy Technology. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2012, 27, 1-10.	0.6	10
10876	Fabrication of CuInS <sub>2</sub> Sensitized TiO <sub>2</sub> Nanorod Arrays for Photovoltaic Devices. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2012, 27, 49-53.	0.6	3
10877	Research Progress on Transition Metal Compound Used as Highly Efficient Counter Electrode of Dye-sensitized Solar Cells. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2013, 28, 907-915.	0.6	3
10878	A Review of Various Nanostructures to Enhance the Efficiency of Solar-Photon-Conversions. , 2017, , 197-225.		1
10879	Cathodic Using of ZrB <sub>2</sub> and SiC and TiB <sub>2</sub> and SiC for PEM Electrolysis and Water Electrolysis at Low Temperature. American Journal of Analytical Chemistry, 2016, 07, 1-11.	0.3	1

#	ARTICLE	IF	CITATIONS
10880	Theoretical Design of Complex Molecule via Combination of Natural Lawsone and Synthetic Indoline D131 Dyes for Dye Sensitized Solar Cells Application. <i>Computational Chemistry</i> , 2018, 06, 87-112.	0.2	5
10881	Studies on the Effects of Crystallite Sizes and Scattering Layers on the Conversion Efficiency of Dye-Sensitized Solar Cell. <i>Journal of Power and Energy Engineering</i> , 2014, 02, 18-24.	0.3	11
10882	A Review of Visible-Light Sensitive TiO <sub>2</sub> Synthesis via Sol-Gel N-Doping for the Degradation of Dissolved Organic Compounds in Wastewater Treatment. <i>Journal of Materials Science and Chemical Engineering</i> , 2014, 02, 28-40.	0.2	1
10883	Case Study of Solar Power Producing Efficiency from a Photovoltaic System. <i>Open Journal of Energy Efficiency</i> , 2015, 04, 45-52.	0.6	7
10884	Evaluation of Reaction Mechanism for Photocatalytic Degradation of Dye with Self-Sensitized TiO <sub>2</sub> under Visible Light Irradiation. <i>Open Journal of Inorganic Non-metallic Materials</i> , 2017, 07, 1-7.	2.7	37
10885	Solar Water Splitting by Semiconductor Nanocomposites and Hydrogen Storage with Quinoid Systems. <i>Open Journal of Physical Chemistry</i> , 2012, 02, 195-203.	0.1	7
10886	Pyroelectric Bi <sub>5-x</sub> (Bi <sub>2</sub> S <sub>3</sub> ) <sub>39</sub> I <sub>12</sub> Fibonacci Superstructure, Synthesis Options and Solar Cell Potential. <i>World Journal of Condensed Matter Physics</i> , 2015, 05, 66-77.	1.1	8
10887	Interface Recombination & Emission Applied to Explain Photosynthetic Mechanisms for (e <sup>-</sup> ,) Tj ETQq1 1.0, 784314 rgBT /Qv	0.3	6
10888	Synthesis of Highly Soluble TiO <sub>2</sub> Nanoparticle with Narrow Size Distribution. <i>Bulletin of the Korean Chemical Society</i> , 2005, 26, 1333-1334.	1.0	11
10889	Photovoltaic Properties of Nano-particulate and Nanorod Array ZnO Electrodes for Dye-Sensitized Solar Cell. <i>Bulletin of the Korean Chemical Society</i> , 2006, 27, 295-298.	1.0	27
10890	Photochemical Hydrogen Evolution in K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> Semiconductor Particles Sensitized by Phosphonated Trisbipyridine Ruthenium Complexes. <i>Bulletin of the Korean Chemical Society</i> , 2007, 28, 921-928.	1.0	3
10891	Anchoring Cadmium Chalcogenide Quantum Dots (QDs) onto Stable Oxide Semiconductors for QD Sensitized Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2007, 28, 953-958.	1.0	51
10892	Electric Field-induced Charge Transfer of (Bu <sub>4</sub> N) <sub>2</sub> [Ru(dcbpyH) <sub>2</sub> -(NCS) <sub>2</sub> ] on Gold, Silver, and Copper Electrode Surfaces Investigated by Means of Surface-enhanced Raman Scattering. <i>Bulletin of the Korean Chemical Society</i> , 2007, 28, 1405-1409.	1.0	16
10893	Method to Increase the Surface Area of Titania Films and Its Effects on the Performance of Dye-Sensitized Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2008, 29, 463-466.	1.0	16
10894	Photoelectric Activity of Thylakoid Layer Formed on Gold via Aminoalkanethiol Self-Assembled Monolayers. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 2195-2196.	1.0	5
10895	Synthesis of Organic Dyes with Linkers Between 9,9-Dimethylfluorenyl Terminal and $\hat{I}\pm$ -Cyanoacrylic Acid Anchor, Effect of the Linkers on UV-Vis Absorption Spectra, and Photovoltaic Properties in Dye-Sensitized Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 2269-2279.	1.0	14
10896	Heterojunction of FeOOH and TiO <sub>2</sub> for the Formation of Visible Light Photocatalyst. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 2613-2616.	1.0	33
10897	Infrared Spectroscopic Study of $\hat{I}\pm$ -Cyano-4-hydroxycinnamic Acid on Nanocrystalline TiO <sub>2</sub> Surfaces: Anchoring of Metal-Free Organic Dyes at Photoanodes in Dye-Sensitized Solar Cells. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 116-119.	1.0	4



#	ARTICLE	IF	CITATIONS
10898	Basis Set Superposition Error on Structures and Complexation Energies of Organo-Alkali Metal Iodides. Bulletin of the Korean Chemical Society, 2010, 31, 2228-2234.	1.0	2
10899	Photovoltaic Behavior of Dye-sensitized Long TiO <sub>2</sub> Nanotube Arrays. Bulletin of the Korean Chemical Society, 2011, 32, 4035-4040.	1.0	4
10900	An Organic Nitrile Dye with Strong Donor and Acceptor Groups for Dye-Sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2011, 32, 2083-2086.	1.0	19
10901	Synthesis of Novel Quinacridone Dyes and Their Photovoltaic Performances in Organic Dye-sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2011, 32, 2553-2559.	1.0	13
10902	Novel Imidazolium Ionic Liquids Containing Quaternary Ammonium Iodide or Secondary Amine for Dye-sensitized Solar Cell. Bulletin of the Korean Chemical Society, 2011, 32, 2633-2636.	1.0	5
10903	Wavelength Conversion Lanthanide(III)-cored Complex for Highly Efficient Dye-sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2011, 32, 2743-2750.	1.0	12
10904	Synthesis of Zr-incorporated TiO <sub>2</sub> Using a Solvothermal Method and its Photovoltaic Efficiency on Dye-sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2011, 32, 3317-3322.	1.0	6
10905	Alkoxy-Substituted Triphenylamine based Chromophores for Dye-Sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2012, 33, 33-34.	1.0	3
10906	Donor- $\pi$ -Acceptor Type Diphenylaminothiophenyl Anthracene-mediated Organic Photosensitizers for Dye-sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2013, 34, 1081-1088.	1.0	10
10907	Transparent Thin Film Dye Sensitized Solar Cells Prepared by Sol-Gel Method. Bulletin of the Korean Chemical Society, 2013, 34, 1188-1194.	1.0	8
10908	Effect of Titanium Nanorods in the Photoelectrode on the Efficiency of Dye Sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2013, 34, 2765-2768.	1.0	2
10909	ZnO Nanorods Based Dye Sensitized Solar Cells Sensitized using Natural Dyes Extracted from Beetroot, Rose and Strawberry. Bulletin of the Korean Chemical Society, 2014, 35, 1050-1056.	1.0	9
10910	Improved Energy Conversion Efficiency of Dye-sensitized Solar Cells Fabricated using Open-ended TiO <sub>2</sub> Nanotube Arrays with Scattering Layer. Bulletin of the Korean Chemical Society, 2014, 35, 1165-1168.	1.0	11
10911	Aqueous Electrolytes Based Dye-sensitized Solar Cells using I <sup>-</sup> /I <sub>3</sub> <sup>-</sup> Redox Couple to Achieve ~4% Power Conversion Efficiency. Bulletin of the Korean Chemical Society, 2014, 35, 1433-1439.	1.0	14
10912	Co-sensitization of N719 with an Organic Dye for Dye-sensitized Solar Cells Application. Bulletin of the Korean Chemical Society, 2014, 35, 1449-1454.	1.0	30
10913	Photovoltaic enhancement of Si solar cells by assembled carbon nanotubes. Nano-Micro Letters, 2010, 2, 22.	14.4	4
10914	Improved Tri-iodide Reduction Reaction of Co-TMPP/C as a Non-Pt Counter Electrode in Dye-Sensitized Solar Cells. Journal of Electrochemical Science and Technology, 2010, 1, 75-80.	0.9	3
10915	Influence of a TiCl <sub>4</sub> Treatment Condition on Dye-Sensitized Solar Cells. Journal of Electrochemical Science and Technology, 2010, 1, 81-84.	0.9	9

#	ARTICLE	IF	CITATIONS
10916	Advanced Nano-Structured Materials for Photocatalytic Water Splitting. Journal of Electrochemical Science and Technology, 2016, 7, 1-12.	0.9	17
10917	TiO <sub>2</sub> Branched Nanostructure Anode Material Prepared by Seeding Method for High-performance Lithium Ion Batteries. Journal of the Korean Electrochemical Society, 2013, 16, 81-84.	0.1	1
10918	Texture, Morphology and Photovoltaic Characteristics of Nanoporous F:SnO <sub>2</sub> Films. Journal of Electrical Engineering and Technology, 2009, 4, 93-97.	1.2	17
10919	Comparison of transparent conductive indium tin oxide, titanium-doped indium oxide, and fluorine-doped tin oxide films for dye-sensitized solar cell application. Journal of Electrical Engineering and Technology, 2011, 6, 684-687.	1.2	41
10920	Electron-Density and Electron-Lifetime Profile in Nanocrystalline-TiO <sub>2</sub> Electrode of Dye-Sensitized Solar Cells Analysed by Voltage Decay and Charge Extraction. ISRN Nanotechnology, 2011, 2011, 1-5.	1.3	3
10921	Alumina Template Assistance in Titania Nanotubes Dye-Sensitized Solar Cell ( NT-DSSC) Device Fabrication. ISRN Nanotechnology, 2012, 2012, 1-10.	1.3	3
10922	PVP-assisted Synthesis of TiO <sub>2</sub> Nanospheres and their Application to the Preparation of Superhydrophobic Surfaces. Applied Science and Convergence Technology, 2015, 24, 219-223.	0.3	2
10923	Nanostructures in Dye-Sensitized and Perovskite Solar Cells. , 0, , .		3
10924	Electron Transport in Nano-structured TiO <sub>2</sub> Electrodes for Improvement of Dye-sensitized Solar Cells. Electrochemistry, 2002, 70, 399-401.	0.6	9
10925	Photoelectric catalytic properties of silicon solar cell used in microbial fuel cell system. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 248801.	0.2	3
10926	Fabrication and Utilization of Titania Nanofibers from Natural Leucoxene Mineral in Photovoltaic Applications. Japanese Journal of Applied Physics, 2011, 50, 01B16.	0.8	1
10927	Dye-Sensitized Solar Cell with Photoanode Made with Polystyrene-Ball-Embedded TiO <sub>2</sub> Pastes. Japanese Journal of Applied Physics, 2011, 50, 06GF09.	0.8	2
10928	Improvement of Photoelectrochemical Properties by Surface Modification with Iron Oxide on p-Type Si Electrodes for Hydrogen Evolution from Water. Japanese Journal of Applied Physics, 2011, 50, 085702.	0.8	2
10929	Development of Low-Temperature Sintering Technique for Dye-Sensitized Solar Cells Combined with Dielectric Barrier Discharge Treatment. Japanese Journal of Applied Physics, 2012, 51, 056201.	0.8	15
10930	Visible to Near-Infrared Photoelectric Conversion in a Dye-Sensitized Solar Cell Using Ru(II) Porphyrin with Azopyridine Axial Ligands. Japanese Journal of Applied Physics, 2012, 51, 10NE02.	0.8	16
10931	Directly Determine an Additive-Induced Shift in Quasi-Fermi Level of TiO <sub>2</sub> Films in Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE15.	0.8	4
10932	Improvement on the Long-Term Stability of Dye-Sensitized Solar Module by Structural Alternation. Japanese Journal of Applied Physics, 2012, 51, 10NE21.	0.8	3
10933	Photoelectrochemical Properties of Nanocrystalline Sb <sub>6</sub> O <sub>13</sub> , MgSb <sub>2</sub> O <sub>6</sub> , and ZnSb <sub>2</sub> O <sub>6</sub> -Based Electrodes for Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE23.	0.8	8

#	ARTICLE	IF	CITATIONS
10934	Electrochemical Investigation of PEDOT Counter Electrode for Dye-Sensitized Solar Cells. <i>Electrochemistry</i> , 2022, 90, 017003-017003.	0.6	3
10935	Rationalization of excited state energy transfer in D <sup>4</sup> F <sup>7</sup> A porphyrin sensitizers enhancing efficiency in dye-sensitized solar cells. <i>Materials Advances</i> , 0, , .	2.6	2
10936	Effect of Mn doping in CdS quantum dot sensitized solar cells grown by SILAR method. <i>Materials Today: Proceedings</i> , 2021, 47, 3471-3475.	0.9	0
10937	Nanomaterial catalysts for organic photoredox catalysis-mechanistic perspective. <i>Nanoscale</i> , 2021, 13, 18044-18053.	2.8	7
10938	Optimized Photoelectric Catalysis with Enhanced Durability in Rgo-Interconnected Nanaocarbon-Confined Cobalt Nanoparticles. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
10939	Current progressions in transition metal based hydroxides as bi-functional catalysts towards electrocatalytic total water splitting. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6215-6268.	2.5	44
10940	Decoration of BiVO <sub>4</sub> Photoanodes with Near-Infrared Quantum Dots for Boosted Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50046-50056.	4.0	15
10941	Pressure-Aided Stabilization of Pyramidal Polyiodides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24105-24114.	1.5	3
10942	Integrating Computation and Experiment to Investigate Photoelectrodes for Solar Water Splitting at the Microscopic Scale. <i>Accounts of Chemical Research</i> , 2021, 54, 3863-3872.	7.6	7
10943	Hurdles and recent developments for CdS and chalcogenide-based electrode in "Solar electro catalytic" hydrogen generation: A review. <i>Electrochemical Science Advances</i> , 2022, 2, e2100114.	1.2	5
10944	Origin of Kinetic Dispersion in Eosin-Sensitized TiO <sub>2</sub> : Insights from Single-Molecule Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23634-23645.	1.5	5
10945	Enhanced Hydrogen Evolution Catalysis from hierarchical nanostructure Co@CoMo electrode. <i>European Journal of Inorganic Chemistry</i> , 0, , .	1.0	1
10946	Improved photoelectrochemical performance of Nb-substituted LaTi(O,N) <sub>3</sub> . <i>Applied Physics Letters</i> , 2021, 119, .	1.5	3
10947	Synthesis of Different Sizes TiO <sub>2</sub> and Photovoltaic Performance in Dye-Sensitized Solar Cells. <i>Frontiers in Materials</i> , 0, 8, .	1.2	7
10948	Ambient-environment processed perovskite solar cells: A review. <i>Materials Today Physics</i> , 2021, 21, 100557.	2.9	12
10949	Designing of noble metal free high performance mesoporous electrocatalysts for water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39799-39809.	3.8	7
10950	Dominant hydrogen complex in natural anatase TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 2021, 130, 145701.	1.1	3
10951	Controlled synthesis of electrospun TiO <sub>2</sub> nanofibers and their photocatalytic application in the decolouration of Remazol Black B azo dye. <i>Catalysis Today</i> , 2022, 392-393, 13-22.	2.2	13

#	ARTICLE	IF	CITATIONS
10952	In Situ Sputtering Silver Induction Electrode for Stable and Stretchable Triboelectric Nanogenerators. <i>Micromachines</i> , 2021, 12, 1267.	1.4	2
10953	Kinetics and Thermodynamics of CO Oxidation by (TiO <sub>2</sub> ) <sub>6</sub> . <i>Molecules</i> , 2021, 26, 6415.	1.7	0
10954	Interfacial Engineering of 3D Hollow Mo-Based Carbide/Nitride Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 50524-50530.	4.0	16
10955	The distribution effect of sulfur vacancy in 2H-MoS <sub>2</sub> monolayer on its H <sub>2</sub> generation mechanism from density functional theory. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 242-249.	3.8	8
10956	Photoelectrochemical Performance of Doped and Undoped TiO <sub>2</sub> Nanotubes for Light-Harvesting and Water Splitting Techniques: Systematic Review and Meta-Analysis. <i>Engineering Materials</i> , 2022, , 171-183.	0.3	0
10957	Effect of Molecular Structure on Interfacial Electron Transfer Kinetics in the Framework of Classical Marcus Theory. <i>Israel Journal of Chemistry</i> , 0, , .	1.0	1
10958	Platinum Single Atoms Anchored on a Covalent Organic Framework: Boosting Active Sites for Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2021, 11, 13266-13279.	5.5	149
10959	Fabrication of InGaN/Si (111) nanowire heterostructure photoanode for hydrogen generation under visible light. <i>Applied Physics Letters</i> , 2021, 119, 153901.	1.5	4
10960	Unconventional Disorder by Femtosecond Laser Irradiation in Fe <sub>2</sub> O <sub>3</sub> . <i>ACS Omega</i> , 2021, 6, 28049-28062.	1.6	4
10961	Photoinduced electron transfer in dye/semiconductor systems on a sub-10-fs time scale. , 2002, , .		0
10962	Photoinduced electron transfer in dye/semiconductor systems on a sub-10-fs time scale. <i>Springer Series in Chemical Physics</i> , 2003, , 316-318.	0.2	0
10963	One-Step Hydrothermal Synthesis and Characterizations of Titanate Nanostructures. , 2003, , 157-171.		0
10964	Control of charge transfer and interface structures in nano-structured dye-sensitized solar cells. , 2003, , 83-104.		0
10965	Dye-Sensitized Solar Cells Based on Mesoscopic Oxide Semiconductor Films. , 2003, , .		0
10966	Surface Forces and Nanorheology of Molecularly Thin Films. , 2004, , 543-603.		1
10969	Organization of Nanoparticles and Nanowires in Electronic Devices. , 2005, , 3-73.		2
10970	Photovoltaic Properties of MEH-PPV/DFPP Blend Devices Based on Novel n-type Polymer DFPP. <i>Korean Journal of Optics and Photonics</i> , 2006, 17, 461-468.	0.1	0
10971	Molecular Conductance Junctions. <i>The Electrical Engineering Handbook</i> , 2007, , 12-1-12-27.	0.2	1

#	ARTICLE	IF	CITATIONS
10973	A New Approach to Alternative Counter Electrode for a Novel Type of Solar Cell. , 2008, , 1352-1356.		1
10974	High-throughput Detection of Protein Kinase Activities in Cell Lysate Based on the Aggregation of Gold Nanoparticles with Peptides. , 2009, ,		0
10975	Photoelectrochemical Water-Splitting Cells for H <sub>2</sub> Production. Applied Science and Convergence Technology, 2009, 18, 331-336.	0.3	1
10976	Environmental Photo(electro)catalysis: Fundamental Principles and Applied Catalysts. , 2010, , 371-442.		2
10977	Photoconductivity in TiO <sub>2</sub> nanotubes measured by Time Resolved Terahertz Spectroscopy. , 2010, ,		0
10978	Progress in Nanoparticles. Journal of the Institute of Electrical Engineers of Japan, 2010, 130, 804-807.	0.0	0
10979	Theoretical Study of Electron Transfer and Electron Transport Processes in Molecular Systems at Metal Substrates. , 2010, , 613-626.		0
10980	Anodized Titania Nanotube Array and its Application in Dye-Sensitized Solar Cells. , 2010, , 57-108.		0
10981	Electrochemical Characteristics of Carbonaceous Materials for Energy Storable Electrode Fabrication. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2010, 24, 57-63.	0.0	3
10982	Solar Photovoltaic Electricity. Green Energy and Technology, 2011, , 19-59.	0.4	0
10983	Light-Activated Ion Pumps and Channels for Temporally Precise Optical Control of Activity in Genetically Targeted Neurons. Neuromethods, 2011, , 99-132.	0.2	1
10984	Preparation of lamina-shape TiO <sub>2</sub> nanoarray electrode and its electron transport in dye-sensitized solar cells. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 088101.	0.2	2
10985	Improvement of Charge Transfer Efficiency of Dye-sensitized Solar Cells by Blocking Layer Coatings. Transactions of the Korean Institute of Electrical Engineers, 2011, 60, 344-348.	0.1	0
10986	Computational Investigations of Metal Oxide Surfaces. , 2011, ,		0
10987	Effect of Porous Counter Electrode with Highly Conductive Layer on Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2011, 50, 082303.	0.8	0
10988	Electrochemical impedance spectroscopy analysis of TiO <sub>2</sub> electrode thickness effect on characteristics of a dye-sensitized solar cell. International Journal of Sustainable Energy, 0, , 1-12.	1.3	0
10989	Electrochemical Replication of Self-Assembled Block Copolymer Nanostructures. , 2011, , 63-116.		0
10990	Modeling and Simulation of Organic Solar Cells. Mathematics in Industry, 2012, , 329-337.	0.1	0

#	ARTICLE	IF	CITATIONS
10991	Highly Efficient Organic Photosensitizer with Dinaphthylphenylamine Unit as a Donor for DSSCs. Bulletin of the Korean Chemical Society, 2011, 32, 4109-4112.	1.0	0
10992	Analyses of the Output Characteristics and the Internal Impedance of Dye-sensitized Solar Cell According to the Fabrication of the Blocking Layer. Transactions of the Korean Institute of Electrical Engineers, 2012, 61, 85-88.	0.1	0
10993	Photovoltaics photovoltaic (PV) , Status of. , 2012, , 7935-7972.		0
10994	Vectorial Photoinduced Charge Transfer in Langmuir-Blodgett Films of Porphyrin-Based Donor-Acceptor Systems. , 2012, , 537-586.		0
10995	Development of D- $\pi$ -A Fluorescent Dyes Based on Control of Molecular Arrangement and/or Orientation, and Their Application to Dye-Sensitized Solar Cells. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2012, 70, 524-540.	0.0	2
10996	On the role of semiconducting polymer as hole-transport layer in solid-state dye sensitized solar cells. , 2012, , .		0
10997	Ultrasonic Corrosion-Anodization: Electrochemical Cell Design and Process Range Testing. Journal of Surface Engineered Materials and Advanced Technology, 2012, 02, 1-10.	0.2	0
10998	Growth of Epitaxial Anatase TiO <sub>2</sub> (001) Thin Film on NaCl(001) Substrate by Ion Beam Sputtering and Thermal Annealing. Japanese Journal of Applied Physics, 2012, 51, 045502.	0.8	0
10999	Effects of Electrospun TiO <sub>2</sub> Nanowires Mixed in Nanoparticle-Based Electrode for Dye-Sensitized Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 044106.	0.8	0
11002	Rare Earth Complexes: The Search for Quasi-Monochromatic OLEDs. , 2012, , 117-224.		0
11004	The Performance of Dye-sensitized Solar Cell Using Light-scattering Layer. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2012, 25, 558-562.	0.0	0
11005	Inorganic Semiconductor Nanoarrays as Photoanodes for Solar Cells. , 2012, , 375-419.		0
11006	Principles and Systems in Light-Induced Energy Conversion. , 2012, , 1-52.		0
11007	Photoelectric Conversion Efficiency of DSSC According to Plasma Surface Treatment of Conductive Substrate. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2012, 25, 902-905.	0.0	0
11008	Hydrogen Fuel as Alternative Energy: Enhanced Hematite-Based Photoelectrochemical Water Splitting. , 2012, , 1-12.		0
11009	Theoretical Design and Screening of Porphyrin, Phthalocyanine and Bipyridyl Ruthenium Complex Sensitizers for Dye-sensitized Solar Cells. , 2013, , .		0
11010	Syntheses and Applications of Multi-Colored Functional Nanoparticles and Their Dispersion Solutions. Journal of the Japan Society of Colour Material, 2013, 86, 204-211.	0.0	0
11012	Plasmon effects on linear spectra related to heterogeneous electron transfer. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 237303.	0.2	2

#	ARTICLE	IF	CITATIONS
11013	Study of Enhanced Photovoltaic Performance with Optimized Electrolytes and Blocking Layer Formation. Journal of the Korean Institute of Illuminating and Electrical Installation Engineers, 2013, 27, 50-54.	0.0	0
11014	Degradation of the Pd catalytic layer electrolyte in dye sensitized solar cells. Journal of the Korea Academia-Industrial Cooperation Society, 2013, 14, 2037-2042.	0.0	1
11015	DOUBLE-WALLED TITANIA NANOTUBES. , 2013, , .		0
11016	FORMATION AND POROUS ANODIZATION OF INTERMETALLIC TiAl <sub>2</sub> COMPOUND. , 2013, , .		0
11018	Graphene and Quantum Dot Nanocomposites for Photovoltaic Devices. Lecture Notes in Nanoscale Science and Technology, 2014, , 269-294.	0.4	0
11019	Quasi-solid state electrolytes with silica nanomaterial for high efficiency dye-sensitized solar cells. Rapid Communication in Photoscience, 2013, 2, 85-88.	0.1	0
11020	Time Dependent Degradation of Cell in Dye-Sensitized Solar Cell. Transactions of the Korean Hydrogen and New Energy Society, 2013, 24, 421-427.	0.1	0
11021	Production of Atomic Photochemical Hydrogen and Photoinjection of Hydrogen in Solids. , 2013, , 241-282.		0
11022	Semiconductorâ€“Liquid Junction: From Fundamentals to Solar Fuel Generating Structures. , 2014, , 1893-1924.		0
11023	Passivating the Surface of TiO <sub>2</sub> Photoelectrodes with Nb <sub>2</sub> O <sub>5</sub> and Al <sub>2</sub> O <sub>3</sub> for High-Efficiency Dye-Sensitized Solar Cells. Nanostructure Science and Technology, 2014, , 201-210.	0.1	0
11024	Sum Frequency Generation <sup>1/4</sup> SFG <sup>1/4</sup> %Vibrational Spectroscopy. Journal of the Japan Society of Colour Material, 2014, 87, 64-71.	0.0	0
11025	Electrochemical Solar Cells Based on Pigments. Water Science and Technology Library, 2014, , 35-59.	0.2	0
11026	Nanostructures Cluster Models in Solution. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2014, , 221-253.	0.5	1
11028	Environmental Interactions of Geo- and Bio-Macromolecules with Nanomaterials. , 2014, , 257-290.		0
11030	The Performance of Solid-State Dye Sensitized Solar Cells with Mist-Atomized CuI as the Hole Conductors. Engineering Materials, 2014, , 49-62.	0.3	3
11031	Study on electron transfer in a heterogeneous system using a density matrix theory approach. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 137302.	0.2	0
11032	Fabrication and Characterization of Dye-sensitized Solar Cells based on Anodic Titanium Oxide Nanotube Arrays Sensitized with Heteroleptic Ruthenium Dyes. Rapid Communication in Photoscience, 2014, 3, 16-19.	0.1	0
11033	Sol-Gel Derived Nitrogen-Doped TiO <sub>2</sub> Photoanodes for Highly Efficient Dye-Sensitized Solar Cells. Rapid Communication in Photoscience, 2014, 3, 20-24.	0.1	0

#	ARTICLE	IF	CITATIONS
11034	Interfaces of Condensed Pure Water. , 2014, , 73-100.		0
11035	The Study on the Cell Electrochemical Properties with Increasing Water content in Dye-Sensitized Solar cells. Transactions of the Korean Hydrogen and New Energy Society, 2014, 25, 289-296.	0.1	0
11036	Electronic Properties of Noncrystalline Semiconductors. Springer Series in Materials Science, 2015, , 193-228.	0.4	0
11037	Preparation of PEDOT-TiO <sub>2</sub> Composite Thin Film by Using Simultaneous Vapor Phase Polymerization. Porrima, 2014, 38, 525-529.	0.0	0
11038	Fiber-Shaped Dye-Sensitized Solar Cell. Nanostructure Science and Technology, 2015, , 39-76.	0.1	2
11039	The characteristics of dye-sensitized solar cells using carbon nanotube in working and counter electrodes. Analytical Science and Technology, 2014, 27, 308-313.	0.3	0
11040	Carbon nanotubes hybrid carbon counter electrode for high efficiency dye-sensitized solar cells. , 2015, , .		0
11041	Influences of Metal Nanoparticles on the Photoelectrochemical Activity of Silicon Nanowires for Photon Harvesting. , 2015, , .		0
11043	Harvesting Solar Energy Using Inexpensive and Benign Materials. , 2015, , 1-35.		0
11044	A Review of Various Nanostructures to Enhance the Efficiency of Solar-Photon-Conversions. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 277-312.	0.3	0
11045	SÄNTESE ELETROQUÄMICA DE MATERIAIS NANOESTRUTURADOS. , 2015, , 63-120.		0
11046	Ordered Porous TiO <sub>2</sub> Films Obtained by Freezing and the Application in Dye Sensitized Solar Cells. , 2015, , .		0
11047	Metal Oxides and Related Nanostructures. , 2015, , 115-130.		1
11048	Quantum Dot-Sensitized Solar Cells Based on Mesoporous TiO <sub>2</sub> Thin Films. Journal of the Korean Electrochemical Society, 2015, 18, 38-44.	0.1	0
11049	SOLAR POWER HARVESTING BY PHOTOVOLTAIC MATERIALS: A COMPREHENSIVE REVIEW. , 2015, , 341-384.		0
11050	- PROGRESS IN PHOTOVOLTAIC TEXTILES: A COMPREHENSIVE REVIEW. , 2015, , 120-155.		0
11051	Photoelectron Spectroscopy Study of the Semiconductor Electrode Nanomaterials for the Dye Synthesized Solar Cell. Journal of the Korean Magnetics Society, 2015, 25, 156-161.	0.0	1
11052	KOBALT KATKILI ZnO NANOYAPILAR Ä°Ä°Ä°N FOTOVOLTAÄ°K Ä°RETÄ°M TEKNOLOJÄ°LERÄ° VE GÄ°NEÄž HÄ°CRE VERÄ°MLERÄ°NÄ° DEÄžERLENDÄ°RÄ°LMESÄ°. MuÄžla Journal of Science and Technology, 2015, 1, 22-22.	0.1	0



#	ARTICLE	IF	CITATIONS
11053	Co-Embedded Graphitic Porous Carbon Nanofibers for Pt-Free Counter Electrode in Dye-Sensitized Solar Cells. Korean Journal of Materials Research, 2015, 25, 672-677.	0.1	4
11054	Photoelectrochemical Reactions at Phthalocyanine Electrodes. , 2016, , 263-314.		0
11055	Dye Sensitized Solar Cells. , 2016, , 873-873.		95
11056	Electrochemical Synthesis of Nanostructured Materials for Solar Energy Conversion. , 2016, , .		1
11057	NiMo Catalyst Electrodeposited on Si Photocathodes for Enhanced Solar Water Splitting. Applied Physics, 2016, 06, 296-306.	0.0	0
11058	Cluster Origin of Solvation Features of C-Nanostructures in Organic Solvents. Advances in Medical Technologies and Clinical Practice Book Series, 2016, , 189-293.	0.3	0
11060	Biotemplates and Their Application to Electronic Devices. , 2016, , 119-143.		1
11061	Toward Bioreplicated Texturing of Solar-Cell Surfaces. , 2016, , 4204-4212.		0
11062	Enhanced Efficiency of Nanoporous-layer-covered TiO <sub>2</sub> NanotubeArrays for Front Illuminated Dye-sensitized Solar Cells. Journal of Electrochemical Science and Technology, 2016, 7, 52-57.	0.9	0
11063	Enhanced Efficiency of Nanoporous-layer-covered TiO <sub>2</sub> NanotubeArrays for Front Illuminated Dye-sensitized Solar Cells. Journal of Electrochemical Science and Technology, 2016, 7, 52-57.	0.9	1
11064	Fabrication of Octahedral Co <sub>3</sub> O <sub>4</sub> /Carbon Nanofiber Composites for Pt-Free Counter Electrode in Dye-Sensitized Solar Cells. Korean Journal of Materials Research, 2016, 26, 250-257.	0.1	2
11065	Optical Properties of Semiconductor Nanoparticles in Photoelectrochemical Cells. Advances in Materials Science and Engineering, 2016, , 283-306.	0.4	0
11067	Positron Annihilation Study of Vacancy Type Defects in Ti, Si, and BaSrFBr:Eu. Applied Science and Convergence Technology, 2016, 25, 85-87.	0.3	1
11068	Bioinspired Stacking Structures for Photoelectric Conversion. Springer Theses, 2017, , 57-79.	0.0	0
11072	Fabrication and Photoelectrochemical Properties of a Cu <sub>2</sub> O/CuO Heterojunction Photoelectrode for Hydrogen Production from Solar Water Splitting. Korean Journal of Materials Research, 2016, 26, 604-610.	0.1	3
11074	A Selection of Emerging Information Materials, Their Properties, Fabrication, and Application in Speculative Spatial Installations. , 2017, , 85-166.		0
11075	MnO <sub>2</sub> co-catalyst effect on Photoelectrochemical Properties of GaN Photoelectrode. Journal of the Microelectronics and Packaging Society, 2016, 23, 113-117.	0.1	0
11076	Sustainable Design of Photovoltaics. , 2017, , 416-493.		0

#	ARTICLE	IF	CITATIONS
11077	Photoelectron characteristics of ZnSe quantum dots-sensitized mesoporous La-doped nano-TiO <sub>2</sub> film. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 067301.	0.2	0
11078	Ionic Liquid-based Polymers and Crystals for Dye-sensitized Solar Cells. RSC Smart Materials, 2017, , 515-530.	0.1	0
11079	Quantum Dots Searching for Bondots. , 2017, , 1805-1874.		1
11080	Alkyl Thiophene Vinylene Electropolymerization in C<sub>8</sub>/mimPF<sub>6</sub>; Potential Use in Solar Cells. Materials Sciences and Applications, 2017, 08, 405-417.	0.3	0
11081	Nanostructured Semiconducting Materials for Water Splitting. Electrochemical Energy Storage and Conversion, 2017, , 291-351.	0.0	0
11082	Features of L-Amino Acid Adsorption on Nanocrystalline Anatase. Bulletin of the South Ural State University Series Chemistry, 2017, 17, 5-15.	0.3	0
11083	Sustainable Design of Photovoltaics. Advances in Chemical and Materials Engineering Book Series, 2017, , 412-489.	0.2	2
11084	Quantum Dots Searching for Bondots. Advances in Chemical and Materials Engineering Book Series, 2017, , 261-327.	0.2	3
11085	Solar Cells Based on Solâ€“Gel Films. , 2017, , 1-19.		0
11086	Synthesis and Photo-Catalytic Activity of Nanoparticles with Structure "Core/Shell": Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @TiO <sub>2</sub> . Eurasian Chemico-Technological Journal, 2017, 19, 191.	0.3	3
11088	15 Fundamental Aspect of Photoelectrochemical Water Splitting. Green Chemistry and Chemical Engineering, 2017, , 677-690.	0.0	0
11089	Chapter 6. Heterojunction Approaches for Stable and Efficient Photoelectrodes. RSC Energy and Environment Series, 2018, , 183-213.	0.2	0
11090	Photochemical Energy Storage. Issues in Environmental Science and Technology, 2018, , 184-209.	0.4	0
11092	Architecture, Structure and Function of the Energy Conversion Centers. Springer Series in Chemical Physics, 2018, , 9-32.	0.2	2
11095	Effective dielectric function of laser-pumped anatase nanoparticles: influence of free carriers trapping and depletion of valence band. Optics Express, 2018, 26, 32941.	1.7	2
11096	Combined Experimental and DFT-TDDFT Computational Study of Photoelectrochemical Cell Ruthenium Sensitizers. , 2018, , 227-251.		1
11097	Chemical Functions of Ceramics. , 2019, , 93-117.		0
11098	Visualization on Evaporation Process of Feedstock and Transport of Atoms and Molecules in Thermal Plasma during Nanoparticle Synthesis. Journal of Smart Processing, 2019, 8, 52-57.	0.0	0

#	ARTICLE	IF	CITATIONS
11099	Experimente mit Licht. , 2019, , 165-261.		0
11100	Nano-configured Opto-electric Ceramic Systems for Photo-electrochemical Hydrogen Energy. , 2019, , 1-34.		0
11101	The Self-Passivation Mechanism in Degradation of BiVO <sub>4</sub> Photoanode. SSRN Electronic Journal, 0, , .	0.4	0
11102	Fabrication and Characterization of Hexagonal Tungsten Oxide Nanopowders for High Performance Gas Sensing Application. Journal of Korean Powder Metallurgy Institute, 2019, 26, 28-33.	0.2	0
11103	Natural Flavonoids as Potential Photosensitizers for Dye-Sensitized Solar Cells. Ecological Chemistry and Engineering S, 2019, 26, 29-36.	0.3	3
11104	Efecto del m�todo de extracci3n de antocianinas de la flor de Jamaica (Hibiscus sabdariffa) en la eficiencia de celdas solares sensibilizadas. Avances En Ciencias E Ingenier�as, 2019, 11, .	0.1	0
11105	Photoelectrochemical Properties of Copper Oxide Photoelectrode with Various Copper Oxide Buffer Layers. Journal of Korean Institute of Metals and Materials, 2019, 57, 447-455.	0.4	1
11106	Synthesis and characterization of a highly cross linked PEGME and PEG for solid electrolyte and its application in dye-sensitized solar cells. , 2019, , 49-52.		0
11107	Amorphous silicon PEC-PV hybrid structure for photo-electrochemical water splitting. Journal of Electrical Engineering, 2019, 70, 107-111.	0.4	0
11108	Applications in Renewable Energy. Power Systems, 2020, , 43-103.	0.3	0
11109	Accurate determination of quasi-particle electronic and optical spectra of anatase titanium dioxide. AIP Conference Proceedings, 2020, , .	0.3	0
11110	Eine Redoxpolymer�basierte Gasdiffusions�CH <sub>2</sub> �Oxidationsbioanode mit hoher Stromdichte unter Verwendung von [FeFe]�Hydrogenase aus Desulfovibrio desulfuricans integriert in einer membranfreien Biobrennstoffzelle. Angewandte Chemie, 2020, 132, 16649.	1.6	2
11113	Inorganic Metal�Oxide Photocatalyst for H <sub>2</sub> O <sub>2</sub> Production. Small, 2022, 18, e2104561.	5.2	152
11114	Awakening the Photoelectrochemical Activity of SnWO <sub>4</sub> Photoanodes with Extraordinary Crystallinity Induced by Reductive Annealing. Advanced Energy and Sustainability Research, 2022, 3, 2100146.	2.8	11
11115	Self-powered MoSe <sub>2</sub> /ZnO heterojunction photodetectors with current rectification effect and broadband detection. Materials and Design, 2021, 212, 110185.	3.3	17
11116	Photon-Responsive Nanomaterials for Solar Cells. Springer Series in Materials Science, 2020, , 1-63.	0.4	0
11117	Nano-configured Opto-electric Ceramic Systems for Photo-electrochemical Hydrogen Energy. , 2020, , 1335-1368.		0
11118	Morphology, Structure, and Optical Properties of Nanocrystalline CdSe Films Doped with Copper. Russian Journal of Physical Chemistry A, 2020, 94, 2441-2449.	0.1	2

#	ARTICLE	IF	CITATIONS
11119	Photoactivated materials and sensors for NO <sub>2</sub> monitoring. Journal of Materials Chemistry C, 2021, 9, 16804-16827.	2.7	16
11120	Synergy between Mn and Co in Mn/CoOx cocatalyst for enhanced photoelectrochemical water oxidation of hematite photoanode. Applied Surface Science, 2022, 572, 151472.	3.1	21
11121	Recent development in sustainable technologies for clean hydrogen evolution: Current scenario and future perspectives. , 2022, , 97-130.		2
11122	Engineering carbon nitride with cyanide groups for efficient photocatalytic alcohol oxidation and H <sub>2</sub> O <sub>2</sub> production-Utilization of photogenerated electrons and holes. Applied Surface Science, 2022, 573, 151506.	3.1	10
11123	Structural diversity in four coordination polymers based on polypyridyl ligand regulated by metal centers for photodegradation of methylene blue and methyl orange. Journal of Solid State Chemistry, 2022, 305, 122664.	1.4	10
11124	Semiconducting metal oxides-based electrodes as the photoanodes of dye-sensitized solar cells (DSSCs). , 2022, , 103-136.		0
11125	Enhanced photoelectrocatalytic hydrogen evolution using off-stoichiometry La <sub>0.43</sub> FeO <sub>y</sub> films. Journal of Alloys and Compounds, 2022, 893, 162238.	2.8	0
11126	Solar Cells and Optoelectronic Devices in Space. , 2020, , 307-323.		1
11127	Water Purification Using Subnanostructured Photocatalysts. ACS Symposium Series, 2020, , 189-225.	0.5	0
11128	Core/Shell Quantum-Dot-Based Solar-Driven Photoelectrochemical Cells. Lecture Notes in Nanoscale Science and Technology, 2020, , 257-286.	0.4	1
11129	Structural, Optical, Photoluminescence Studies onto the Incorporation of Copper in Tin Oxide Nanostructure and Evaluation of their Antimicrobial Property. Asian Journal of Chemistry, 2020, 32, 1617-1622.	0.1	0
11130	Fiber Dye-Sensitized Solar Cells. , 2020, , 71-111.		0
11131	Research progress and prospects of photocatalytic devices with perovskite ferroelectric semiconductors. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 127706.	0.2	5
11132	An overview of water electrolysis technologies for the production of hydrogen. , 2020, , 161-190.		4
11134	Bio-Based Aromatics: Aminobenzoic Acid Derivatives for High-Performance Bioplastics. ACS Symposium Series, 2020, , 99-121.	0.5	2
11135	Chalcogenides. Nanoscience and Technology, 2020, , 631-833.	1.5	0
11136	Quercetin-based donor-acceptor organic dyes for a dye-sensitized solar cell: A DFT and TD-DFT study. AIP Conference Proceedings, 2020, , .	0.3	0
11137	Applications of Current Density Functional Theory (DFT) Methods in Polymer Solar Cells. , 0, , .		0

#	ARTICLE	IF	CITATIONS
11138	Molecular engineering of the fused azacycle donors in the D-A- $\pi$ -A metal-free organic dyes for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2022, 197, 109922.	2.0	20
11139	A Self-Powered Transparent Photodetector Based on Detached Vertical (In,Ga)N Nanowires with 360° Omnidirectional Detection for Underwater Wireless Optical Communication. <i>Nanomaterials</i> , 2021, 11, 2959.	1.9	12
11140	The nonlinear optical properties of graphene loaded CdSe colloidal quantum dots. <i>Nano Structures Nano Objects</i> , 2020, 23, 100483.	1.9	3
11141	Theoretical Studies of Ultrafast Electron Transfer Reactions in Condensed Phases. , 2005, , 211-223.		0
11142	Signal Transduction Techniques for Photosynthetic Proteins. , 0, , 94-107.		0
11143	Hydrogen Production. <i>Green Energy and Technology</i> , 2008, , 15-79.	0.4	1
11144	Electron image contrast analysis of mosaicity in rutile nanocrystals using direct electron detection. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, 687-697.	0.0	0
11145	Regulation of surface properties of photocatalysis material TiO <sub>2</sub> by strain engineering. <i>Journal of Semiconductors</i> , 2020, 41, 091703.	2.0	3
11146	Geometrical confinement effects on fundamental thermal properties of rutile and anatase TiO <sub>2</sub> cylindrical and tubular nanostructures. <i>Physica Scripta</i> , 2020, 95, 105706.	1.2	2
11147	Efficient light harvesting in perovskite layer via three-dimensional TiO <sub>2</sub> nanobranched nanorod scaffold. <i>Nano Express</i> , 2020, 1, 030017.	1.2	1
11148	Titanium compounds containing naturally occurring dye molecules. <i>Dalton Transactions</i> , 2021, 50, 17202-17207.	1.6	2
11149	Artificial foliage with remarkable quantum conversion efficiency in bicarbonate to formate. <i>Sustainable Energy and Fuels</i> , 0, , .	2.5	1
11150	Silicon nanowire- $\text{Ta}_2\text{O}_5$ -NGQD heterostructure: an efficient photocathode for photoelectrochemical hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2021, 6, 197-208.	2.5	14
11151	Synthesis, characterization and electrochemical behavior of new bis(fluoroalkyl) ferrocenylphosphonates and their tin tetrachloride complexes. <i>Journal of Organometallic Chemistry</i> , 2022, 957, 122178.	0.8	0
11152	Freeing the surface-bound excitons to facilitate water oxidation catalysis in BiVO <sub>4</sub> photoanode. <i>Applied Surface Science</i> , 2022, 578, 151914.	3.1	5
11153	Varying heterojunction thickness within space charge region for photocatalytic water splitting. <i>Cell Reports Physical Science</i> , 2021, 2, 100652.	2.8	8
11154	Interstitial M <sup>+</sup> (M <sup>+</sup> = Li <sup>+</sup> or Sn <sup>4+</sup> ) Doping at Interfacial BiVO <sub>4</sub> /WO <sub>3</sub> to Promote Photoelectrochemical Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2021, 4, 13636-13645.	2.5	4
11155	Tuning the Interfacial Energetics in WO <sub>3</sub> /WO <sub>3</sub> and WO <sub>3</sub> /TiO <sub>2</sub> Heterojunctions by Nanostructure Morphological Engineering. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11528-11533.	2.1	12

#	ARTICLE	IF	CITATIONS
11156	Tunable bandgap and vacancy defects in GaSe/SnSe van der Waals heterostructure. <i>Journal of Materials Research</i> , 2021, 36, 4927-4937.	1.2	3
11158	Recent advancements of layered double hydroxide heterojunction composites with engineering approach towards photocatalytic hydrogen production: A review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 862-901.	3.8	39
11159	Application of Graphdiyne and Its Analogues in Photocatalysis and Photoelectrochemistry. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1195-1212.	1.3	10
11160	Water Splitting with Enhanced Efficiency Using a Nickel-Based Co-Catalyst at a Cupric Oxide Photocathode. <i>Catalysts</i> , 2021, 11, 1363.	1.6	7
11161	Emerging materials for plasmon-assisted photoelectrochemical water splitting. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 51, 100472.	5.6	44
11162	Modified Electrodes Surface with Inorganic Oxides and Conducting Polymers. , 2022, , 345-359.		0
11163	Amphiphilic Indoline-Based Unsymmetrical Squaraine Dyes for Dye-Sensitized Solar Cells: Modulating the Dye-TiO <sub>2</sub> /Electrolyte Interface for Nonaqueous and Aqueous Electrolytes. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	10
11164	Oxidative electropolymerization films of a styrene-appending ruthenium complex with highly performed electrochemical, solar photoelectric conversion and photoelectrochemical oxygen reduction properties. <i>Electrochimica Acta</i> , 2022, 403, 139672.	2.6	6
11165	Fluorescent Nanoscale Covalent Organic Frameworks with the Theoretically Matched Redox Potential of Fe <sup>3+</sup> /Fe <sup>2+</sup> for Monitoring of Adenosine-5â€²-Triphosphate in Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 13132-13139.	2.4	8
11166	Photoelectrocatalytic Câ€“H halogenation over an oxygen vacancy-rich TiO <sub>2</sub> photoanode. <i>Nature Communications</i> , 2021, 12, 6698.	5.8	68
11167	Synthesis and Physico-Chemical Properties of Homoleptic Copper(I) Complexes with Asymmetric Ligands as a DSSC Dye. <i>Molecules</i> , 2021, 26, 6835.	1.7	6
11168	Review on the Revolution of Polymer Electrolytes for Dye-Sensitized Solar Cells. <i>Energy &amp; Fuels</i> , 2021, 35, 19320-19350.	2.5	13
11169	Green synthesis of TiO <sub>2</sub> nanoparticles using Citrus limon juice extract as a bio-capping agent for enhanced performance of dye-sensitized solar cells. <i>Surfaces and Interfaces</i> , 2022, 28, 101652.	1.5	23
11170	Carbon dots enhance the interface electron transfer and photoelectrochemical kinetics in TiO <sub>2</sub> photoanode. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120983.	10.8	55
11171	Integrated and Unassisted Solar Waterâ€“Splitting System by Monolithic Perovskite/Silicon Tandem Solar Cell. <i>Solar Rrl</i> , 2022, 6, 2100748.	3.1	8
11172	Harnessing visible-light energy for unbiased organic photoelectrocatalysis: synthesis of <i>N</i>-bearing fused rings. <i>Green Chemistry</i> , 2022, 24, 837-845.	4.6	10
11173	Visible-light-driven hydrogen peroxide production from water and dioxygen by perylenetetracarboxylic diimide modified titanium-based metalâ€“organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26371-26380.	5.2	38
11174	Dynamics of photoconversion processes: the energetic cost of lifetime gain in photosynthetic and photovoltaic systems. <i>Chemical Society Reviews</i> , 2021, 50, 13372-13409.	18.7	10

#	ARTICLE	IF	CITATIONS
11175	The Application of Nanomaterial in Skeletal Muscle Regeneration. , 2021, , 37-85.		0
11176	Solid-state dye-sensitized solar cells using polymeric hole conductors. RSC Advances, 2021, 11, 39570-39581.	1.7	9
11177	Improved luminescence performance of Yb <sup>3+</sup> -Er <sup>3+</sup> -Zn <sup>2+</sup> : Y <sub>2</sub> O <sub>3</sub> phosphor and its application to solar cells. Optical Materials, 2022, 123, 111928.	1.7	4
11178	Temperature-Dependence Photoelectrochemical Hydrogen Generation Based on Alloyed Quantum Dots. Journal of Physical Chemistry C, 2022, 126, 174-182.	1.5	11
11179	Fe <sub>2</sub> O <sub>3</sub> /FePO <sub>4</sub> /FeOOH Ternary Stepped Energy Band Heterojunction Photoanode with Cascade-Driven Charge Transfer and Enhanced Photoelectrochemical Performance. ChemSusChem, 2022, 15, .	3.6	5
11180	A two-step MM and QM/MM approach to model AIEE of aryloxy benzothiadiazole derivatives for optoelectronic applications. Physical Chemistry Chemical Physics, 2022, 24, 4051-4064.	1.3	6
11181	Nanostructured and columnar vanadium and vanadium oxides films synthesized by means of magnetron-based gas aggregation source. Surface and Coatings Technology, 2022, 431, 128015.	2.2	6
11182	Effect of Ti rolling process on the enhanced interfacial adhesion between TiO <sub>2</sub> and underlying Ti substrate. Electrochemistry Communications, 2022, 135, 107199.	2.3	2
11183	Gradual and selective achievement of Rutile-TiO <sub>2</sub> by thermal annealing amorphous Ti <sub>x</sub> O <sub>y</sub> N <sub>z</sub> films. Journal of Non-Crystalline Solids, 2022, 579, 121375.	1.5	1
11184	A compendium and meta-analysis of flatband potentials for TiO <sub>2</sub> , ZnO, and SnO <sub>2</sub> semiconductors in aqueous media. Chemical Physics Reviews, 2022, 3, .	2.6	9
11185	Ethnoveterinary study of galactogenic recipes used by ruminant breeders to improve milk production of local cows in Benin Republic. Journal of Ethnopharmacology, 2022, 285, 114869.	2.0	3
11186	Impact of internal (donor/acceptor) moieties and Ì€-spacer in triphenylamine-based dyes for DSSCs. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113738.	2.0	19
11187	Effect of annealing of Î²-Bi <sub>2</sub> O <sub>3</sub> over enhanced photoelectrochemical performance. Materials Science in Semiconductor Processing, 2022, 141, 106439.	1.9	13
11188	Low cost carbazole-based organic dyes bearing the acrylamide and 2-pyridone moieties for efficient dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113760.	2.0	19
11189	Optimized photoelectric catalysis with enhanced durability in rGO-interconnected nanocarbon-confined cobalt nanoparticles. Carbon, 2022, 189, 561-570.	5.4	4
11190	U7Co 3d impurity energy level mediated photogenerated carriers transfer in Bi <sub>2</sub> S <sub>3</sub> /ZnS:Co/TiO <sub>2</sub> photoanode. Chemical Engineering Journal, 2022, 433, 134458.	6.6	8
11191	Studying the Photocatalytic Activity of Iron Oxides Synthesized by Plasma Dynamic Method. , 2020, , .		0
11192	Facile construction of a polypyrrole-Ì€cobalt sulfide counter electrode for low-cost dye-sensitized solar cells. RSC Advances, 2021, 11, 38146-38151.	1.7	3

#	ARTICLE	IF	CITATIONS
11193	Photoactive ultrathin molecular nanosheets with reversible lanthanide binding terpyridine centers. <i>Nanoscale</i> , 2021, 13, 20583-20591.	2.8	3
11194	Dye Regeneration Kinetics of C343-Sensitized Nickel Oxide Investigated by Scanning Electrochemical Microscopy. <i>Materials Sciences and Applications</i> , 2022, 13, 22-38.	0.3	2
11195	Ferrocenyl-2,2'-bipyridylimine derived d <sup>10</sup> configuration complexes as prospective co-sensitizers in dye sensitized solar cells. <i>Applied Organometallic Chemistry</i> , 2022, 36, .	1.7	7
11196	Nickel Sulfate as an Influential Precursor of Amorphous High-Valent Ni(III) Oxides for Efficient Water Oxidation in Preparation via a Mixed Metal-Imidazole Casting Method. <i>ACS Applied Energy Materials</i> , 2022, 5, 1894-1904.	2.5	13
11197	Electrochemical photoluminescence modulation of functional materials and their electrochemical devices. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 50, 100486.	5.6	14
11198	Emerging S <sup>2+</sup> Scheme Photocatalyst. <i>Advanced Materials</i> , 2022, 34, e2107668.	11.1	717
11199	Design Guidelines for Enhanced Activity of Water Splitting Photoelectrodes with Plasmonic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1701-1710.	1.5	0
11200	Long and Well-Separated TiO <sub>2</sub> Nanowire Arrays Decorated with Au Nanoparticles for Visible-Light-Driven Photoelectrochemical Water Splitting. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1966-1971.	1.5	9
11201	Electrochemically deposited poly(3,4-propylenedioxythiophene) for dye-sensitized solar cell. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 793-800.	1.5	1
11204	Precursor induced evolution in single anatase phase synthesis of TiO <sub>2</sub> nanoparticles for water treatment and dye-sensitized solar cell. <i>Physica B: Condensed Matter</i> , 2022, 631, 413716.	1.3	19
11205	Progress in Ternary Metal Oxides as Photocathodes for Water Splitting Cells: Optimization Strategies. <i>Solar Rrl</i> , 2022, 6, .	3.1	17
11206	Simple strategies deployed for developing efficient and stable solution processed quantum dot solar cells. <i>Materials Advances</i> , 2022, 3, 2249-2267.	2.6	3
11207	Solar light-induced injection of hot electrons and photocarriers for synergistically enhanced photothermocatalysis over Cu-Co/SrTiO <sub>3</sub> catalyst towards boosting CO hydrogenation into C <sub>2</sub> -C <sub>4</sub> hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121063.	10.8	27
11208	Photoelectrochemical hybrid cell for unbiased CO <sub>2</sub> reduction coupled to alcohol oxidation. , 2022, 1, 77-86.		48
11209	Spark plasma sintering and electric conductivity of anatase TiO <sub>2</sub> nanoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 4375.	1.1	0
11210	Autonomous Design of Photoferroic Ruddlesden-Popper Perovskites for Water Splitting Devices. <i>Materials</i> , 2022, 15, 309.	1.3	3
11211	Carbazole-decorated fluorescent CdS quantum dots: A potential light-harvesting material. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 164, 110603.	1.9	6
11212	Electrostatically charged rutile TiO <sub>2</sub> surfaces with enhanced photocatalytic activity for bacteria inactivation. <i>Catalysis Today</i> , 2022, 392-393, 154-166.	2.2	7



#	ARTICLE	IF	CITATIONS
11213	Simulations to Cover the Waterfront for Iron Oxide Catalysis. ChemPhysChem, 2022, 23, .	1.0	3
11214	Modelling the physical properties of environmentally friendly optical magnetic switches: DFT and TD-DFT. , 2022, , 355-384.		2
11215	Design and Fabrication of High Performance Photoanode of Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> /RGO Hybrid Composites for Triiodide Reduction in Dye-Sensitized Solar Cells. Journal of Cluster Science, 2023, 34, 349-357.	1.7	4
11216	BiOCl Nanorings with Co-Exposed (110)/(001) Facets for Photocatalytic Degradation of Organic Dyes. ACS Applied Nano Materials, 2022, 5, 2476-2482.	2.4	12
11217	Metal chalcogenide-based counter electrodes for dye-sensitized solar cells. , 2022, , 259-286.		2
11218	Surface plasmon-driven photoelectrochemical water splitting of a Ag/TiO <sub>2</sub> nanoplate photoanode. RSC Advances, 2022, 12, 2652-2661.	1.7	14
11219	Heating-Induced Transformation of Anatase TiO <sub>2</sub> Nanorods into Rock-Salt TiO Nanoparticles: Implications for Photocatalytic and Gas-Sensing Applications. ACS Applied Nano Materials, 2022, 5, 1600-1606.	2.4	11
11220	Advanced Functional Liquid Crystals. Advanced Materials, 2022, 34, e2109063.	11.1	106
11221	Hydrogen in single-crystalline anatase TiO <sub>2</sub> . Journal of Applied Physics, 2022, 131, .	1.1	8
11222	Designing highly effective mesoporous Carbon-based counter electrodes for liquid Electrolyte-based and Quasi-solid Dye-sensitized solar cells. Journal of Electroanalytical Chemistry, 2022, 908, 116104.	1.9	6
11223	Wheel-shaped icosanuclear Cu-containing polyoxometalate catalyst: Mechanistic and stability studies on light-driven hydrogen generation. Chinese Journal of Catalysis, 2022, 43, 442-450.	6.9	16
11224	New Findings for the Muchâ€Promised Hematite Photoanodes with Gradient Doping and Overlayer Elaboration. Solar Rrl, 2022, 6, .	3.1	15
11225	High Refractive Index Dielectric Nanoparticles for Opticallyâ€Enhanced Activity of Waterâ€Splitting Photoanodes. ChemPhotoChem, 0, , .	1.5	0
11226	Hierarchical BiVO <sub>4</sub> /Cu(OH) <sub>2</sub> nanocone/nanowire membrane with environmental durability and electro-/photo- cleaning capability for oil/water separation. Surface and Coatings Technology, 2022, 434, 128175.	2.2	6
11227	Ferroelectric-enhanced BiVO <sub>4</sub> -BiFeO <sub>3</sub> photoelectrocatalysis for efficient, stable and large-current-density oxygen evolution. Applied Materials Today, 2022, 26, 101374.	2.3	4
11228	Low-hysteresis manganese hexacyanoferrate (MnHCF) aqueous battery for low-grade thermal energy harvesting. Journal of Power Sources, 2022, 524, 231080.	4.0	3
11229	Template-directed synthesis of pomegranate-shaped zinc oxide@zeolitic imidazolate framework for visible light photocatalytic degradation of tetracycline. Chemosphere, 2022, 294, 133782.	4.2	15
11230	Properties of self-oxidized single crystalline perovskite N:BaTiO <sub>3</sub> oxynitrides epitaxial thin films. Materials Advances, 0, , .	2.6	0

#	ARTICLE	IF	CITATIONS
11231	In situ localization of BiVO <sub>4</sub> onto two-dimensional MXene promoting photoelectrochemical nitrogen reduction to ammonia. Chinese Chemical Letters, 2022, 33, 4669-4674.	4.8	18
11232	Structure, Electronic Properties, and Defect Chemistry of Delafossite CuRhO <sub>2</sub> Bulk and Surfaces. Chemistry of Materials, 2022, 34, 1567-1577.	3.2	6
11233	Ultrasensitive electrode-free and co-catalyst-free detection of nanomoles per hour hydrogen evolution for the discovery of new photocatalysts. Review of Scientific Instruments, 2022, 93, 025002.	0.6	1
11234	Large-Area Printing of Ferroelectric Surface and Super- $\pi$ Domain for Solar Water Splitting. Advanced Functional Materials, 2022, 32, .	7.8	17
11235	Synergic use of two-dimensional materials to tailor interfaces in large area perovskite modules. Nano Energy, 2022, 95, 107019.	8.2	16
11236	Enhanced electrochemical activity of Co <sub>3</sub> O <sub>4</sub> /Co <sub>9</sub> S <sub>8</sub> heterostructure catalyst for water splitting. International Journal of Hydrogen Energy, 2022, 47, 30970-30980.	3.8	35
11237	Thermodynamic Conditions for the Nernstian Response of the Flat Band Potential of the Metal Oxide Semiconductor: A Theoretical Study. Journal of Physical Chemistry C, 2022, 126, 578-587.	1.5	14
11238	Synthesis of diketopyrrolopyrrole and anthraquinone-based polymers of A <sup>1</sup> -A <sup>2</sup> architecture by direct arylation polycondensation and designing inorganic/organic nano-heterostructured photoanodes for visible light water splitting. Sustainable Energy and Fuels, 2022, 6, 2343-2357.	2.5	7
11239	Enhanced Charge Transfer with Tuning Surface State in Hematite Photoanode Integrated by Niobium and Zirconium Co-Doping for Efficient Photoelectrochemical Water Splitting. SSRN Electronic Journal, 0, , .	0.4	0
11240	Synthesis of metal sulfides using Lawesson's reagent for photocatalytic hydrogen production. Materials Today: Proceedings, 2022, 53, 6-9.	0.9	1
11241	A Fully Printed Organic-Inorganic Metal Halide Perovskite Photocathode for Photoelectrochemical Reduction of Cr(VI) in Aqueous Solution. SSRN Electronic Journal, 0, , .	0.4	0
11242	Ion beam-induced bending of TiO <sub>2</sub> nanowires with bead-like and prismatic shapes. RSC Advances, 2022, 12, 5577-5586.	1.7	2
11243	Nonclassical carbenes as noninnocent ligands. , 2022, , .		0
11244	Thin film transition metal dichalcogenide photoelectrodes for solar hydrogen evolution: a review. Journal of Materials Chemistry A, 2022, 10, 9327-9347.	5.2	16
11245	Hierarchical trace copper incorporation activated cobalt layered double hydroxide as a highly selective methanol conversion electrocatalyst to realize energy-matched photovoltaic-electrocatalytic formate and hydrogen co-production. Journal of Materials Chemistry A, 2022, 10, 19649-19661.	5.2	12
11246	Enhanced charge collection and surface activity of a CuBi <sub>2</sub> O <sub>4</sub> photocathode via crystal facet engineering. Journal of Materials Chemistry A, 2022, 10, 9427-9434.	5.2	9
11247	Interplay between H <sub>2</sub> S and Anatase TiO <sub>2</sub> (101) Surface: The Effect of Subsurface Oxygen Vacancy. Journal of Physical Chemistry C, 2022, 126, 3939-3948.	1.5	3
11248	Triphasic Metal Oxide Photocatalyst for Reaction Site-Specific Production of Hydrogen Peroxide from Oxygen Reduction and Water Oxidation. Advanced Energy Materials, 2022, 12, .	10.2	17

#	ARTICLE	IF	CITATIONS
11249	Electric Field Effects on Photoelectrochemical Water Splitting: Perspectives and Outlook. <i>Energies</i> , 2022, 15, 1553.	1.6	2
11250	Rectifying ZnO@Na/ZnO@Al aerogels p-n homojunctions. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7738-7749.	1.1	2
11251	Performance enhancement of dye-sensitized solar cells by facile hydrothermal-induced BaSnO <sub>3</sub> /RGO as photoanode material. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7799-7810.	1.1	0
11252	Heterojunction Nanomedicine. <i>Advanced Science</i> , 2022, 9, e2105747.	5.6	51
11253	Thin Film Fabrication by Pulsed Laser Deposition from TiO <sub>2</sub> Targets in O <sub>2</sub> , N <sub>2</sub> , He, or Ar for Dye-Sensitized Solar Cells. <i>Coatings</i> , 2022, 12, 293.	1.2	7
11254	Solution chemistry quasi-epitaxial growth of atomic CaTiO <sub>3</sub> perovskite layers to stabilize and passivate TiO <sub>2</sub> photoelectrodes for efficient water splitting. <i>Fundamental Research</i> , 2023, 3, 918-925.	1.6	1
11255	Which Is More Efficient in Promoting the Photocatalytic H <sub>2</sub> Evolution Performance of g-C <sub>3</sub> N <sub>4</sub> : Monometallic Nanocrystal, Heterostructural Nanocrystal, or Bimetallic Nanocrystal?. <i>Inorganic Chemistry</i> , 2022, 61, 4760-4768.	1.9	2
11256	Strategies To Construct n-Type Si-Based Heterojunctions for Photoelectrochemical Water Oxidation. , 2022, 4, 779-804.		10
11257	Aqueous CO <sub>2</sub> Reduction on Si Photocathodes Functionalized by Cobalt Molecular Catalysts/Carbon Nanotubes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
11258	Highly luminescent nitrogen doped graphene quantum dots sensitized TiO <sub>2</sub> nanorod arrays for enhanced photoelectrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , 2022, 909, 116150.	1.9	18
11259	Brick Shaped Vanadium Nitride/Graphene Nanocomposite as Highly Efficient Counter Electrode Catalyst for Pt Free Dye-Sensitized Solar Cell. <i>ChemistrySelect</i> , 2022, 7, .	0.7	3
11260	Black Si Photocathode with a Conformal and Amorphous MoS <sub>x</sub> Catalytic Layer Grown Using Atomic Layer Deposition for Photoelectrochemical Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14137-14145.	4.0	4
11261	Application of Halide Perovskite Nanocrystals in Solar-Driven Photo(electro)Catalysis. <i>Solar Rrl</i> , 2022, 6, .	3.1	5
11262	Light-responsive nanomaterials with pro-oxidant and anti-oxidant activity. <i>Emergent Materials</i> , 2022, 5, 455-475.	3.2	5
11263	Generation of long-lived charges in organic semiconductor heterojunction nanoparticles for efficient photocatalytic hydrogen evolution. <i>Nature Energy</i> , 2022, 7, 340-351.	19.8	164
11264	Band Structure Engineering and Defect Passivation of Cu <sub>x</sub> Ag <sub>1-x</sub> InS <sub>2</sub> /ZnS Quantum Dots to Enhance Photoelectrochemical Hydrogen Evolution. <i>ACS Omega</i> , 2022, 7, 9642-9651.	1.6	4
11265	Controlled Porosity in Ferroelectric BaTiO <sub>3</sub> Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13147-13157.	4.0	9
11266	Engineering 2D Materials for Photocatalytic Water-Splitting from a Theoretical Perspective. <i>Materials</i> , 2022, 15, 2221.	1.3	43

#	ARTICLE	IF	CITATIONS
11267	PEDOT-Carbon Nanotube Counter Electrodes and Bipyridine Cobalt (II/III) Mediators as Universally Compatible Components in Bio-Sensitized Solar Cells Using Photosystem I and Bacteriorhodopsin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3865.	1.8	6
11268	Analytical extraction of the single-diode model parameters for macro-porous silicon-based dye-sensitized solar cells using Lambert W-function. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 1193-1199.	1.2	0
11269	Photosystem II in bio-photovoltaic devices. <i>Photosynthetica</i> , 2022, 60, 121-135.	0.9	6
11270	Anthracene-bridged Sensitizers for Dye-sensitized Solar Cells with 37% Efficiency under Dim Light. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	21
11271	Electrochemical hydrogen generation technology: Challenges in electrodes materials for a sustainable energy. <i>Electrochemical Science Advances</i> , 2023, 3, .	1.2	8
11272	Voltage generation by photosystem I complexes immobilized onto a millipore filter under continuous illumination. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 11528-11538.	3.8	4
11273	Interfacial Dipole Layer Enables High-Performance Heterojunctions for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2022, 7, 1392-1402.	8.8	11
11274	Direct Observation of the Chemical Transformations in BiVO <sub>4</sub> Photoanodes upon Prolonged Light-Aging Treatments. <i>Solar Rrl</i> , 2022, 6, .	3.1	5
11275	General embedded cluster protocol for accurate modeling of oxygen vacancies in metal-oxides. <i>Journal of Chemical Physics</i> , 2022, 156, 124704.	1.2	9
11276	Extending the Absorption Limit of BiVO <sub>4</sub> Photoanodes with Hydrogen Sulfide Treatment. <i>Solar Rrl</i> , 2022, 6, .	3.1	5
11277	One-pot synthesis of SrTiO <sub>3</sub> -SrCO <sub>3</sub> heterojunction with strong interfacial electronic interaction as a novel photocatalyst for water splitting to generate H <sub>2</sub> . <i>Chinese Chemical Letters</i> , 2023, 34, 107323.	4.8	11
11278	Asymmetric absorption in asymmetric dielectric Fabry-Perot resonator with cholesteric liquid crystal layer inside. <i>Optical Materials</i> , 2022, 125, 112111.	1.7	4
11279	Hollow Multishell-Structured TiO <sub>2</sub> /MAPbI <sub>3</sub> Composite Improves Charge Utilization for Visible-Light Photocatalytic Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2022, 61, 5397-5404.	1.9	11
11280	Aqueous CO <sub>2</sub> Reduction on Si Photocathodes Functionalized by Cobalt Molecular Catalysts/Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	16
11281	Donor functionalized perylene and different Ï€-spacer based sensitizers for dye-sensitized solar cell applications - a theoretical approach. <i>Journal of Molecular Modeling</i> , 2022, 28, 102.	0.8	6
11282	Conjugated Porphyrin Materials for Solar Fuel Generation. <i>Current Organic Chemistry</i> , 2022, 26, 596-605.	0.9	2
11283	Demonstration of Photoelectrochemical-type Photodetectors Using Seawater as Electrolyte for Portable and Wireless Optical Communication. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	32
11284	Modulation of the Chemical Microenvironment at the Hematite-Based Photoanode Interface with a Covalent Triazine Framework for Efficient Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2022, 12, 3700-3709.	5.5	44

#	ARTICLE	IF	CITATIONS
11285	State-of-the-art advancements of transition metal oxides as photoelectrode materials for solar water splitting. <i>Rare Metals</i> , 2022, 41, 2370-2386.	3.6	20
11286	Flexible Self-Powered Photoelectrochemical Photodetector with Ultrahigh Detectivity, Ultraviolet/Visible Reject Ratio, Stability, and a Quasi-Invisible Functionality Based on Lift-Off Vertical (Al,Ga)N Nanowires. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	11
11287	Solvent-engineered performance improvement of graphene quantum dot sensitized solar cells with nitrogen functionalized GQD photosensitizers. <i>Solar Energy</i> , 2022, 236, 17-25.	2.9	17
11288	Spatial separation strategies to control charge recombination and dye regeneration in p-type dye sensitized solar cells. <i>Solar Energy</i> , 2022, 236, 107-152.	2.9	14
11289	Solution route processed and organically-Capped Quinary $\text{CuIn}_{1-x}\text{Ga}_x(\text{S}_y\text{Se}_{1-y})_2$ (CIGSSe) inks for use in low-cost photovoltaics. <i>Materials Chemistry and Physics</i> , 2022, 282, 125903.	2.0	2
11290	Review "Strategic Design of Layered Double Hydroxides and Graphitic Carbon Nitride Heterostructures for Photoelectrocatalytic Water Splitting Applications. <i>Journal of the Electrochemical Society</i> , 2022, 169, 046515.	1.3	9
11291	Recent developments on green synthesised nanomaterials and their application in dye-sensitised solar cells. <i>International Journal of Ambient Energy</i> , 2022, 43, 7133-7149.	1.4	4
11292	Visible-light photoelectric performance of $\text{RMnO}_3$ (R = La, Pr and Nd) epitaxial films with structural distortion. <i>Ceramics International</i> , 2022, 48, 20555-20562.	2.3	1
11293	Heteroleptic Copper(I) complexes of bipyridine glycoluril and phosphine ligands: Photophysical and computational studies. <i>Inorganica Chimica Acta</i> , 2022, 538, 120934.	1.2	3
11294	Microwave-assisted metal-ion attachment for ex-situ zirconium doping into hematite for enhanced photoelectrochemical water splitting. <i>Renewable Energy</i> , 2022, 189, 694-703.	4.3	17
11295	Highly efficient quantum-dot-sensitized solar cells with composite semiconductor of ZnO nanorod and oxide inverse opal in photoanode. <i>Electrochimica Acta</i> , 2022, 412, 140145.	2.6	41
11296	$\text{Fe}_2\text{V}_4\text{O}_{13}$ photoanode material: an interesting approach to non-enzymatic glucose oxidation. <i>Journal of Materials Science</i> , 2022, 57, 7173-7190.	1.7	6
11297	Boosting the solar water oxidation performance of $\text{BiVO}_4$ photoanode via non-stoichiometric ratio driven surface reconstruction. <i>Journal of Power Sources</i> , 2022, 528, 231242.	4.0	10
11298	Synchronized carrier extraction and injection through boron nitride nanoplatelets in hierarchical $\text{BiVO}_4/\text{CoCr}$ -layered double hydroxides for efficient water oxidation. <i>Electrochimica Acta</i> , 2022, 415, 140269.	2.6	3
11299	ZnS/CZTS QDs modification for escalating photoelectrochemical properties of $\text{Fe}_2\text{O}_3$ thin film. <i>Physica B: Condensed Matter</i> , 2022, 632, 413763.	1.3	0
11300	Lab-on-cloth integrated with a photoelectrochemical cell and ion imprinting for point-of-care testing of $\text{Hg}^{2+}$ . <i>Sensors and Actuators B: Chemical</i> , 2022, 361, 131689.	4.0	3
11301	Computational and experimental approach for investigation of epsilon-near-zero response in nitrogenated $\text{TiO}_2$ . <i>Materials Today Communications</i> , 2022, 31, 103324.	0.9	1
11302	Hetero-tandem organic solar cells drive water electrolysis with a solar-to-hydrogen conversion efficiency up to 10%. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121237.	10.8	8

#	ARTICLE	IF	CITATIONS
11303	Reduced graphene oxide-Mn <sub>3</sub> O <sub>4</sub> composites as effective electron acceptors for hybrid polymer-based solar cells. <i>Materials Science in Semiconductor Processing</i> , 2022, 145, 106638.	1.9	2
11304	Theoretical design of new carbazole based organic dyes for DSSCs applications. A DFT/TD-DFT insight. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 429, 113902.	2.0	23
11305	First-principles DFT Investigation of the Photocatalytic Capability of Cl Doped Rutile TiO <sub>2</sub> as a Self-Cleaning Coating for Photovoltaic Panels. , 2021, , .		1
11306	Formation and gas-phase photocatalysis of anodized hematite nanotubular arrays. <i>Denki Kagaku</i> , 2021, 89, 340-345.	0.0	0
11307	Hematite Nanowire and Nanoflake-Decorated Photoelectrodes: Implications for Photoelectrochemical Water Splitting. <i>ACS Applied Nano Materials</i> , 2022, 5, 1016-1022.	2.4	4
11308	Barrierless Self-Trapping of Photocarriers in Co <sub>3</sub> O <sub>4</sub> . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12033-12039.	2.1	10
11309	Terpyridyl Ruthenium Complexes Functionalized with Conjugated Heterocycles for Panchromatic Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 13461-13470.	2.5	3
11310	Temperature Effect on Photoelectrochemical Water Splitting: A Model Study Based on BiVO <sub>4</sub> Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61227-61236.	4.0	21
11311	Emerging Surface, Bulk, and Interface Engineering Strategies on BiVO <sub>4</sub> for Photoelectrochemical Water Splitting. <i>Small</i> , 2022, 18, e2105084.	5.2	78
11312	Performance and stability of femtosecond laser-irradiated Fe <sub>2</sub> O <sub>3</sub> materials as photocatalysts for methylene blue dye discoloration. <i>Eletica Quimica</i> , 2022, 47, 105-119.	0.2	0
11313	RuO <sub>2</sub> /IrO <sub>2</sub> nanoparticles decorated TiO <sub>2</sub> nanotube arrays for improved activity towards chlorine evolution reaction. <i>Catalysis Today</i> , 2022, 400-401, 26-34.	2.2	1
11314	Effect of Photoreduction of Semiconducting Iron Mineral "Goethite" on Microbial Community in the Marine Euphotic Zone. <i>Frontiers in Microbiology</i> , 2022, 13, 846441.	1.5	0
11315	Enhanced photoelectrochemical performance of carbon nanotubes-modified black TiO <sub>2</sub> nanotube arrays for self-driven photodetectors self-driven photodetectors. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, , 100452.	1.5	1
11316	Enhancement of power conversion efficiency of dye-sensitized solar cell via symmetrical Bi-anchoring organic molecules as co-sensitizer. <i>Organic Electronics</i> , 2022, 106, 106533.	1.4	2
11318	Efficient co-sensitization of novel trimethoxybenzene-based dyes with N-719 for highly efficient dye-sensitized solar cells. <i>Optical Materials</i> , 2022, 128, 112344.	1.7	11
11319	CHAPTER 9. Hybrid Solar Cells. <i>RSC Nanoscience and Nanotechnology</i> , 0, , 298-340.	0.2	0
11320	Quantum Dots for Type III Photovoltaics. <i>RSC Nanoscience and Nanotechnology</i> , 2017, , 436-471.	0.2	1
11330	Boost the large driving photovoltages for overall water splitting in direct Z-scheme heterojunctions by interfacial polarization. <i>Catalysis Science and Technology</i> , 2022, 12, 3614-3621.	2.1	10

#	ARTICLE	IF	CITATIONS
11332	Synergism between Chemisorption and Unique Electron Transfer Pathway of S-Scheme Ag <sub>2</sub> S/C <sub>3</sub> N <sub>4</sub> Heterojunction for Improving the Photocatalytic H <sub>2</sub> Evolution. SSRN Electronic Journal, 0, , .	0.4	0
11333	Experimental Study on Photo-Reaction Mechanisms of Graphene Oxide Derivatives in Water. SSRN Electronic Journal, 0, , .	0.4	0
11334	Optimal Molecule-Matching Co-Sensitization System for the Improvement of Photovoltaic Performances of DSSCs. SSRN Electronic Journal, 0, , .	0.4	0
11335	Engineering Low-Coordination Single-Atom Cobalt on Graphitic Carbon Nitride Catalyst for Hydrogen Evolution. ACS Catalysis, 2022, 12, 5517-5526.	5.5	67
11336	ELECTRICAL ANALYSIS OF SEMI-FLEXIBLE AND FLEXIBLE DSSCS: COMPARISON STUDY. Surface Review and Letters, 0, , .	0.5	0
11337	Hole transport and current-voltage characteristics of PEO/PVP/cobalt nitrate polymer blend electrolytes. Polymer Engineering and Science, 2022, 62, 2260-2273.	1.5	6
11338	A Review on Gel Polymer Electrolytes for Dye-Sensitized Solar Cells. Micromachines, 2022, 13, 680.	1.4	14
11339	Rational design on photoelectrodes and devices to boost photoelectrochemical performance of solar-driven water splitting: a mini review. Frontiers of Chemical Science and Engineering, 2022, 16, 777-798.	2.3	6
11340	Rationalizing hydrogen evolution mechanism on the slab of Zn-reduced 2H-MoS <sub>2</sub> monolayer by density functional theory calculations. International Journal of Hydrogen Energy, 2022, 47, 19005-19015.	3.8	6
11341	Efficient charge transfers in hematite photoanode integrated by fluorine and zirconia co-doping for photoelectrochemical water splitting. Chemical Engineering Journal, 2022, 446, 136957.	6.6	11
11342	Synthesis of Sn and Zr-Doped BiVO <sub>4</sub> Nanocatalyst with Enhanced Photocatalytic and Photoelectrochemical Activity. ChemistrySelect, 2022, 7, .	0.7	5
11343	N-doped graphene quantum dots for boosting the photoelectrochemical and photo-sensing properties of TiO <sub>2</sub> nanorod array photoanodes. Materials Today: Proceedings, 2022, 62, 3763-3770.	0.9	2
11344	Polyoxometalate-Based Metal Organic Frameworks: Recent Advances and Challenges. ChemistrySelect, 2022, 7, .	0.7	15
11345	Continuous photocatalytic reactor: Critical review on the design and performance. Journal of Environmental Chemical Engineering, 2022, 10, 107746.	3.3	33
11346	A fully printed organic-inorganic metal halide perovskite photocathode for photoelectrochemical reduction of Cr(VI) in aqueous solution. Inorganic Chemistry Communication, 2022, 141, 109499.	1.8	0
11347	Pt nanoparticles coupled with perylene-based small molecule deposited on Ti <sup>3+</sup> self-doped TiO <sub>2</sub> nanorods-An inorganic/organic type-II nanoheterostructure for efficient visible-light photoelectrochemical water oxidation. Chemosphere, 2022, 301, 134696.	4.2	9
11348	Room temperature ferromagnetism in Fe <sub>3</sub> O <sub>4</sub> nanoparticle-embedded polymer semiconductors. Journal of Physics and Chemistry of Solids, 2022, 167, 110750.	1.9	4
11349	Scope and prospect of transition metal-based cocatalysts for visible light-driven photocatalytic hydrogen evolution with graphitic carbon nitride. Coordination Chemistry Reviews, 2022, 465, 214516.	9.5	34

#	ARTICLE	IF	CITATIONS
11350	New Trends in Carbon Nanostructured Based Counter Electrode for Dye-Sensitized Solar Cell: A Review. <i>Journal of Applied Sciences</i> , 2022, 22, 48-54.	0.1	1
11351	Modification of benzoindenthiothiophene-based organic dye with fused thiophenes for efficient dye-sensitized solar cells. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 115, 108214.	1.3	1
11352	Synergizing Inter and Intraband Transitions in Defective Tungsten Oxide for Efficient Photocatalytic Alcohol Dehydration to Alkenes. <i>Jacs Au</i> , 2022, 2, 1160-1168.	3.6	12
11353	Mesoporous Dye-Sensitized Solar Cells. , 2012, , 447-462.		0
11355	Effect of carboxylic acid and cyanoacrylic acid as anchoring groups on Coumarin 6 dye for dye-sensitized solar cells: DFT and TD-DFT study. <i>Structural Chemistry</i> , 2022, 33, 1921-1933.	1.0	12
11356	Effect of TiO <sub>2</sub> layer thickness on the energy conversion efficiency of dye-sensitized solar cells. <i>Functional Materials Letters</i> , 2022, 15, .	0.7	1
11357	Exploring the Role of Graphene Oxide as a Co-Catalyst in the CZTS Photocathodes for Improved Photoelectrochemical Properties. <i>ACS Applied Energy Materials</i> , 2022, 5, 7538-7549.	2.5	1
11358	Molybdenum carbide as catalyst in biomass derivatives conversion. <i>Journal of Energy Chemistry</i> , 2022, 73, 68-87.	7.1	10
11359	Enhanced charge transfer with tuning surface state in hematite photoanode integrated by niobium and zirconium co-doping for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121538.	10.8	30
11360	A Facile Fabrication of Sb <sub>2</sub> S <sub>3</sub> /TiO <sub>2</sub> Photo-Anode with Long Wavelength Visible Light Absorption for Efficient Photoelectrochemical Water Oxidation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
11361	Probing the molecular structure of aqueous triiodide <i>via</i> X-ray photoelectron spectroscopy and correlated electron phenomena. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15540-15555.	1.3	4
11362	Synergistic Effects of In <sub>4</sub> S <sub>8</sub> @MoS <sub>2</sub> @Cnts on Electrode Interface Catalysis and Charge Transfer in Efficient Dye-Sensitized Solar Cells. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
11363	CdS-Decorated Porous Anodic SnOx Photoanodes with Enhanced Performance under Visible Light. <i>Materials</i> , 2022, 15, 3848.	1.3	4
11364	Process Engineering of Semitransparent DSSC Modules and Panel Incorporating an Organic Sensitizer. <i>Solar Rrl</i> , 2022, 6, .	3.1	12
11365	Rational design of eco-friendly Mn-doped nonstoichiometric CuInSe/ZnSe core/shell quantum dots for boosted photoelectrochemical efficiency. <i>Nano Research</i> , 2022, 15, 7614-7621.	5.8	14
11366	TiO <sub>2</sub> /AgO composites by one step photo reduction technique as electron transport layers (ETL) for dye-sensitized solar cells. <i>Chemosphere</i> , 2022, , 134953.	4.2	2
11367	Multiple Effects Induced by Mo <sup>6+</sup> Doping in BiVO <sub>4</sub> Photoanodes. <i>Solar Rrl</i> , 2022, 6, .	3.1	12
11368	Covalent Organic Framework Nanoplates Enable Solution-Processed Crystalline Nanofilms for Photoelectrochemical Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 10291-10300.	6.6	33



#	ARTICLE	IF	CITATIONS
11369	Co-sensitized photoelectrode of CeO <sub>2</sub> :Er <sup>3+</sup> /Yb <sup>3+</sup> dual function upconverter with cost effective PEDOT:PSS/SnS Bi-layer counter electrode for efficient dye sensitized solar cells. <i>Optical Materials</i> , 2022, 129, 112515.	1.7	5
11370	Materials for photoelectrochemical devices. , 0, , 35-62.		0
11371	Photosensitive materials. , 0, , 63-83.		0
11373	Graphene-based polymer composites for photocatalytic applications. , 2022, , 377-432.		1
11374	Visible Light Driven Cu <sub>2</sub> ZnSnS <sub>4</sub> QDs /Fe <sub>2</sub> O <sub>3</sub> -Graphene Heterojunction for Photoelectrochemical Water Splitting. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
11375	Piezocatalytic Degradation of Pollutants and Simultaneous Recovery of Power: A New Strategy of Pollutant-to-Energy Conversion. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
11378	Dye-Sensitized Solar Cells. <i>Springer Handbooks</i> , 2022, , 1137-1214.	0.3	1
11381	Understanding the fundamentals of TiO <sub>2</sub> surfaces. Part I. The influence of defect states on the correlation between crystallographic structure, electronic structure and physical properties of single-crystal surfaces. <i>Surface Engineering</i> , 2022, 38, 91-149.	1.1	5
11382	Regulating Phase Junction and Oxygen Vacancies of TiO <sub>2</sub> Nanoarrays for Boosted Photoelectrochemical Water Oxidation. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 1292-1300.	1.3	8
11383	First-principles DFT investigation of the electronic and optical properties of Br doped rutile TiO <sub>2</sub> for application in photovoltaic Panels™ coatings and Self-Cleaning. <i>Materials Today: Proceedings</i> , 2022, 66, 353-358.	0.9	1
11384	Open-Circuit Voltage Degradation by Dye Mulliken Electronegativity in Multi-Anchor Organic Dye-Based Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 7600-7616.	2.5	7
11385	Synergistic Engineering of Se Vacancies and Heterointerfaces in Zinc-Cobalt Selenide Anode for Highly Efficient Na-Ion Batteries. <i>Small</i> , 2022, 18, .	5.2	45
11386	Recent Progress on Titanium Sesquioxide: Fabrication, Properties, and Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
11387	The effect of anchoring group on the performances of metal-free phthalocyanine and metallophthalocyanine dye/titanium dioxide interface for dye-sensitized solar cells. <i>Surfaces and Interfaces</i> , 2022, 32, 102089.	1.5	7
11388	Biomass-derived carbon (BC) modified CoWO <sub>4</sub> nanoparticles composites for improved performance of dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2022, 803, 139814.	1.2	8
11389	Construction of nickel molybdenum sulfide (NiMoS <sub>3</sub> )/bio carbon (BC) heterostructure photoanodes and optimization of light scattering to improve the photovoltaic performance of dye sensitized solar cells (DSSCs). <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 143, 115362.	1.3	7
11390	Heterostructured core/gradient multi-shell quantum dots for high-performance and durable photoelectrochemical hydrogen generation. <i>Nano Energy</i> , 2022, 100, 107524.	8.2	11
11391	Bandgap Funneling in Bismuth-Based Hybrid Perovskite Photocatalyst with Efficient Visible-Light-Driven Hydrogen Evolution. <i>Small Methods</i> , 2022, 6, .	4.6	12

#	ARTICLE	IF	CITATIONS
11392	Engineering efficient hole transport layer Ferrihydrite-MXene on BiVO <sub>4</sub> photoanodes for photoelectrochemical water splitting: Work function and conductivity regulated. Applied Catalysis B: Environmental, 2022, 315, 121606.	10.8	46
11393	Dye-Sensitized NiO photocathode based on rhodamine B-Appended Iridium(III) complex for Photoelectrochemical assay. Applied Surface Science, 2022, 599, 153913.	3.1	5
11394	Determinants Affecting the Performance of CZTSSe: Antisite Defects and Multiple Quantum Confinement for Photon-Sensitive Devices. IEEE Sensors Journal, 2022, 22, 15944-15952.	2.4	6
11395	Solar thermal-activated photocatalysis for hydrogen production and aqueous triethanolamine polymerization. Journal of Materials Chemistry A, 2022, 10, 19984-19993.	5.2	4
11396	Metal oxide-involved photocatalytic technology in cosmetics and beauty products. , 2022, , 301-337.		0
11397	S-scheme heterojunction AgCl/g-C <sub>3</sub> N <sub>4</sub> with a unique electron transfer channel <i>via</i> a built-in electric field for enhanced H <sub>2</sub> production. Sustainable Energy and Fuels, 2022, 6, 3729-3739.	2.5	3
11398	Insight into the effects of coverage, water, and defects on the properties of the catechol/TiO <sub>2</sub> interface. Chinese Journal of Chemical Physics, 0, , .	0.6	0
11399	Tailoring benzo[ <i>h</i> ]phenoxazine moiety for efficient photosensitizers in dye sensitized solar cells <i>via</i> the DFT/TD-DFT method. New Journal of Chemistry, 2022, 46, 15155-15167.	1.4	6
11400	Hydrophobic carbon/Whitlockite derived from expired yogurt as a counter electrode for dye-sensitized solar cell (DSSC). Journal of Materials Science: Materials in Electronics, 2022, 33, 16638-16654.	1.1	0
11401	Revealing the Essential Role of Iron Phosphide and its Surface-Evolved Species in the Photoelectrochemical Water Oxidation by Gd-Doped Hematite Photoanode. ChemSusChem, 2022, 15, .	3.6	13
11402	Integrated Photovoltaic Charging and Energy Storage Systems: Mechanism, Optimization, and Future. Small, 2022, 18, .	5.2	16
11403	Catalytic dissociation of a water molecule on the (1 1 1) surfaces of Pt <sub>0.5</sub> Ni <sub>0.5</sub> bimetal: Density functional theory (DFT) study. Applied Surface Science, 2022, 602, 154238.	3.1	2
11404	<b>The N <sub>3</sub> /TiO <sub>2</sub> Interfacial Structure is Dependent on the pH Conditions During Sensitization</b>. Journal of Chemical Physics, 0, , .	1.2	0
11405	Efficient model photosensitizers based on metallocenyl complexes with thiophene-N=N-pyrimidine as $\pi$ -conjugated bridge and cyanoacrylate as an anchoring group: a density functional theory study. Journal of Molecular Modeling, 2022, 28, .	0.8	2
11406	A roadmap for hydrogel-based quasi-solid electrolyte preparation for use in dye-sensitized solar cell. Electrochimica Acta, 2022, 427, 140841.	2.6	4
11407	Pyranilidene/trifluoromethylbenzoic acid-based chromophores for dye-sensitized solar cells. Dyes and Pigments, 2022, 206, 110566.	2.0	1
11408	An Overview of Solar-Driven Photoelectrochemical CO <sub>2</sub> Conversion to Chemical Fuels. ACS Catalysis, 2022, 12, 9023-9057.	5.5	51
11409	Surface Modulation Inducing Bismuth-Rich Surface Composition in BiVO <sub>4</sub> for Efficient Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2022, 5, 8419-8427.	2.5	14

#	ARTICLE	IF	CITATIONS
11410	Tandem Nanostructures: A Prospective Platform for Photoelectrochemical Water Splitting. <i>Solar Rrl</i> , 2022, 6, .	3.1	2
11411	A New Lattice Boltzmann Scheme for Photonic Bandgap and Defect Mode Simulation in One-Dimensional Plasma Photonic Crystals. <i>Photonics</i> , 2022, 9, 464.	0.9	0
11412	Spectrophotometric Determination of Formation Constants of Iron(III) Complexes with Several Ligands. <i>Chemistry</i> , 2022, 4, 701-716.	0.9	2
11413	The use of 2-Mercaptobenzothiazole as a new co-adsorbent in dye-sensitized solar cells. <i>Optical Materials</i> , 2022, 131, 112658.	1.7	5
11414	Chalcogenide perovskites for photovoltaic applications: a review. <i>Journal of Nanoparticle Research</i> , 2022, 24, .	0.8	9
11415	Factor influencing the deposition of CdSe nanoparticles by using electrophoretic deposition for quantum dot sensitized solar cells. <i>Journal of the Australian Ceramic Society</i> , 0, , .	1.1	1
11416	Designing of PC <sub>31</sub> BM-based acceptors for dye-sensitized solar cell. <i>Journal of Physical Organic Chemistry</i> , 2023, 36, .	0.9	8
11417	Dual modification of BiVO <sub>4</sub> photoanode by rare earth element neodymium doping and further NiFe <sub>2</sub> O <sub>4</sub> co-catalyst deposition for efficient photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2022, 923, 166352.	2.8	14
11418	Two-dimensional ultra-thin nanosheets optimize the surface reaction dynamics and photo/pyro-generated carrier transfer of NaNbO <sub>3</sub> for an efficient pyro-photo-electric catalytic system. <i>Sustainable Energy and Fuels</i> , 2022, 6, 4227-4239.	2.5	6
11419	Sustainable photoanodes for water oxidation reactions: from metal-based to metal-free materials. <i>Chemical Communications</i> , 2022, 58, 10469-10479.	2.2	9
11420	Photorechargeable Hybrid Halide Perovskite Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 35592-35599.	4.0	14
11421	Effect of metal doping in Bi <sub>2</sub> WO <sub>6</sub> micro-flowers for enhanced photoelectrochemical water splitting. <i>Ceramics International</i> , 2022, 48, 35814-35824.	2.3	10
11422	Interfacial-engineered CoTiO <sub>3</sub> -based composite for photocatalytic applications: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 3039-3069.	8.3	17
11423	Local Charge Transport at the Interface of Semiconductor and Charge Transport Mediator. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	6
11424	New designed push-pull organic dyes based on the conjugated Ì-spacers for Application in dye-sensitized solar cells: a computational chemistry study. <i>Bulletin of Materials Science</i> , 2022, 45, .	0.8	5
11426	Demonstration of Low Work Function Perovskite SrVO <sub>3</sub> Using Thermionic Electron Emission. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	11
11427	Electronic Structure of Titanium Dioxide Doped with Nickel and Chromium Atoms. <i>Glass Physics and Chemistry</i> , 2022, 48, 327-332.	0.2	1
11429	Spin-Polarized Photoemission from Chiral CuO Catalyst Thin Films. <i>ACS Nano</i> , 2022, 16, 12145-12155.	7.3	13

#	ARTICLE	IF	CITATIONS
11430	Investigation on photocatalytic property of SiH/GaSe and SiH/InSe heterojunctions for photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 31295-31308.	3.8	15
11431	Cobalt complex-based redox mediator-assisted gel polymer electrolyte (PVA-H <sub>2</sub> SO <sub>4</sub> -[Co(en) <sub>3</sub> ]Cl <sub>3</sub> ) for high-performance supercapacitor. <i>Ionics</i> , 2022, 28, 4779-4792.	1.2	1
11432	Fabrication and synthesis of dye-sensitized solar cells (DSSC) using Pd doped ZnO photoanodes and extract of plant leaves as a natural dye. <i>Materials Research Innovations</i> , 2023, 27, 194-203.	1.0	2
11434	TiB <sub>2</sub> derived nanosheets co-immobilized with triangular gold nanoparticles elicit fast and stable photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2024, 52, 20-32.	3.8	9
11435	GW Quasiparticle Energies and Bandgaps of Two-Dimensional Materials Immersed in Water. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 7574-7582.	2.1	4
11436	Breakdown of the anodized nanostructured anatase for photovoltaic devices: The effect of water content in the electrolyte on preparation of large surfaces of nanotubes. <i>Ceramics International</i> , 2022, , .	2.3	1
11437	Selective sensitization strategy for high-performance panchromatic dye-sensitized solar cells incorporated with ruthenium-based double dyes. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 115, 272-278.	2.9	2
11438	National Policies, Recent Research Hotspots, and Application of Sustainable Energy: Case of China, USA, and European Countries. <i>Sustainability</i> , 2022, 14, 10014.	1.6	2
11439	Energy-efficient photoelectrochemical water splitting and degradation of organic dyes over microwave-assisted WO <sub>3</sub> nanosheets/W foil with rapid charge transport. <i>Solar Energy Materials and Solar Cells</i> , 2022, 246, 111939.	3.0	5
11440	Electrochemical investigation of PEDOT:PSS and Nb <sub>2</sub> O <sub>5</sub> composites as counter electrodes for dye-sensitized solar cells. <i>Optical Materials</i> , 2022, 132, 112763.	1.7	5
11441	Calix[4]arene-Based Sensitizers for Host-Guest Supramolecular Dyads for Solar Energy Conversion in Photoelectrochemical Cells.. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	4
11442	Surface Plasmon Resonance Enhanced Hydrogen Evolution from Water with Graphitic Carbon Nitride Photocatalyst. <i>Catalysis Letters</i> , 2023, 153, 2296-2307.	1.4	1
11443	Effect of ruthenium(II)-bipyridine complex photosensitizer on the panchromatic light absorption and electron transfer in N719-dye sensitized photoanodes. <i>Optical Materials</i> , 2022, 133, 112924.	1.7	2
11444	Heterostructured CoTe <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite thin film counters electrodes for enhancing the photovoltaic performance of dye-sensitized solar cells. <i>Diamond and Related Materials</i> , 2022, 129, 109318.	1.8	4
11445	Sonohydrothermal-assisted ZnS nanocrystals for improved structural, electronic, and optical properties: Experimental and ab initio methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 286, 115983.	1.7	2
11446	Co-exposed crystal facets optimizing photocatalytic activity and photosensitization ability: A case of facile, fast and scalable synthesis of BiOBr round nanosheets. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 654, 130049.	2.3	2
11447	Two-dimensional MgAl <sub>2</sub> S <sub>4</sub> as potential photocatalyst for water splitting and strategies to boost its performance. <i>Applied Surface Science</i> , 2022, 605, 154826.	3.1	3
11448	Electronic, geometrical and photophysical facets of five coordinated porphyrin N-heterocyclic carbene transition metals complexes: A theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 284, 121774.	2.0	4

#	ARTICLE	IF	CITATIONS
11449	Morphological evolution driven semiconducting nanostructures for emerging solar, biological and nanogenerator applications. <i>Materials Advances</i> , 2022, 3, 8030-8062.	2.6	7
11450	Surface engineering of nanoporous silicon photocathodes for enhanced photoelectrochemical hydrogen production. <i>Catalysis Science and Technology</i> , 2022, 12, 5640-5648.	2.1	7
11451	Photoelectrochemical glycerol oxidation on Mo-BiVO <sub>4</sub> photoanodes shows high photocharging current density and enhanced H <sub>2</sub> evolution. <i>Energy Advances</i> , 2022, 1, 715-728.	1.4	8
11452	A durable VO <sub>2</sub> transition layer and defect inactivation in BiVO <sub>4</sub> <i>via</i> spontaneous valence-charge control. <i>Journal of Materials Chemistry A</i> , 2022, 10, 21300-21314.	5.2	1
11453	A double co-sensitization strategy using heteroleptic transition metal ferrocenyl dithiocarbamate phenanthroline-dione for enhancing the performance of N719-based DSSCs. <i>RSC Advances</i> , 2022, 12, 28088-28097.	1.7	2
11454	An optimal molecule-matching co-sensitization system for the improvement of photovoltaic performances of DSSCs. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 22580-22588.	1.3	4
11455	Semiconducting eutectic materials for photocatalysis and photoelectrochemistry applications: A perspective. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	3
11456	Metal oxides as photoanodes for photoelectrochemical water splitting: synergy of oxygen vacancy. , 2022, , 99-134.		0
11457	Enhanced field emission of quasi-aligned 3C-SiC nanoarrays alloyed with tiny Co nano-tips. <i>CrystEngComm</i> , 2022, 24, 7372-7377.	1.3	2
11458	Electric double layer at the metal-oxide/electrolyte interface. , 2023, , .		0
11459	Ultrafast excited state dynamics of pyridine N-oxide derivative in solution; femtosecond fluorescence up-conversion and theoretical calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 285, 121896.	2.0	1
11460	Graphene Based Hybrid Nanocomposites for Solar Cells. <i>Current and Future Developments in Nanomaterials and Carbon Nanotubes</i> , 2022, , 61-77.	0.1	1
11461	Photoelectrocatalytic biosynthesis fuelled by microplastics. , 2022, 1, 776-786.		33
11462	Integrated p-n Junctions for Efficient Solar Water Splitting upon TiO <sub>2</sub> /CdS/BiSbS <sub>3</sub> Ternary Hybrids for Improved Hydrogen Evolution and Mechanistic Insights. <i>Catalysts</i> , 2022, 12, 1117.	1.6	6
11463	Influence of Excess Charge on Water Adsorption on the BiVO <sub>4</sub> (010) Surface. <i>Journal of the American Chemical Society</i> , 2022, 144, 17173-17185.	6.6	17
11464	First application of benzotriazole as a dye additive to dye-sensitized solar cells: electrochemical device characterization. <i>Journal of the Iranian Chemical Society</i> , 2023, 20, 79-85.	1.2	1
11465	Flexible bidirectional self-powered photodetector with significantly reduced volume and accelerated response speed based on hydrogel and lift-off GaN-based nanowires. <i>Fundamental Research</i> , 2022, , .	1.6	3
11466	Carbon Nanodots Assisted Surface Engineering of GaN Photoanodes for Efficient and Stable Photoelectrochemical Water Oxidation. <i>Advanced Sustainable Systems</i> , 0, , 2200198.	2.7	0

#	ARTICLE	IF	CITATIONS
11467	Quantum rate efficiency of the charge transfer mediated by quantum capacitive states. <i>Electrochimica Acta</i> , 2022, 434, 141194.	2.6	4
11468	Germanium dioxide: A new rutile substrate for epitaxial film growth. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, .	0.9	6
11469	Recent advances in covalent organic framework (COF) nanotextures with band engineering for stimulating solar hydrogen production: A comprehensive review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 34323-34375.	3.8	13
11470	Challenges of Z-scheme photocatalytic mechanisms. <i>Trends in Chemistry</i> , 2022, 4, 973-983.	4.4	153
11471	Alternatives to Water Photooxidation for Photoelectrochemical Solar Energy Conversion and Green H <sub>2</sub> Production. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	39
11472	Medium-independent hydrogen atom binding isotherms of nickel oxide electrodes. <i>CheM</i> , 2022, 8, 3324-3345.	5.8	7
11473	Evaluation of increased electricity production when cooling solar panels. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 1085, 012011.	0.2	0
11475	MOF derived NiO thin film formed p-n heterojunction with BiVO <sub>4</sub> photoelectrode for enhancement of PEC performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 655, 130282.	2.3	18
11476	Influence of potassium iodide in polyvinyl alcohol-based gel polymer electrolyte for efficiency enhancement of dye-sensitized solar cells. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	1
11477	Transfer of a Photocatalytically Active TiO <sub>2</sub> Nanotube Array onto Cementitious Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 47272-47276.	4.0	1
11478	Unusually strong, tunable, and nonreciprocal light trapping and absorption in helically structured magnetoactive media. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	3
11479	CdS/Au/TiO <sub>2</sub> nanowire composite as selective, sensitive and reliable immunosensors for detecting octachlorostyrene under visible light. <i>Sensors and Actuators A: Physical</i> , 2022, 347, 113908.	2.0	2
11480	TiO <sub>2</sub> nanorods with CdS quantum dots for optical applications. , 0, , 167-178.		1
11481	Karbazol Temelli (Dâ€™İ€â€™A) DuyarlıÄ±rÄ±cÄ±: Sentezi, Karakterizasyonu ve DSSC UygulamasÄ±. <i>European Journal of Science and Technology</i> , 0, , .	0.5	0
11482	A Simple Fabrication of Sb <sub>2</sub> S <sub>3</sub> /TiO <sub>2</sub> Photo-Anode with Long Wavelength Visible Light Absorption for Efficient Photoelectrochemical Water Oxidation. <i>Nanomaterials</i> , 2022, 12, 3444.	1.9	1
11483	Rational Design of Carbon Nitride Photoelectrodes with High Activity Toward Organic Oxidations. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
11484	Advances in Hybrid Composites for Photocatalytic Applications: A Review. <i>Molecules</i> , 2022, 27, 6828.	1.7	22
11485	A Computer Vision Sensor for AIâ€™Accelerated Detection and Tracking of Occluded Objects. <i>Advanced Intelligent Systems</i> , 0, , 2100285.	3.3	1

#	ARTICLE	IF	CITATIONS
11486	A Photoresponsive Battery Based on a Redox-Coupled Covalent-Organic Framework Hybrid Photoelectrochemical Cathode. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
11487	In Situ Growth of PbS Nanoparticles without Organic Linker on ZnO Nanostructures via Successive Ionic Layer Adsorption and Reaction (SILAR). <i>Coatings</i> , 2022, 12, 1486.	1.2	2
11488	Rational Design of Carbon Nitride Photoelectrodes with High Activity Toward Organic Oxidations. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
11489	Bimolecular Self-Trapped Exciton Formation in Bismuth Vanadate. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 9815-9821.	2.1	2
11490	Defect Engineering in Photocatalysts and Photoelectrodes: From Small to Big. <i>Accounts of Materials Research</i> , 2022, 3, 1127-1136.	5.9	21
11491	Phenothiazine functionalized fulleropyrrolidines: synthesis, charge transport and applications to organic solar cells. <i>Photochemical and Photobiological Sciences</i> , 0, , .	1.6	0
11492	The role of mild and hard anodization regimes of iron oxide nanotubes in the photoelectrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , 2022, 926, 116903.	1.9	2
11493	A Photoresponsive Battery Based on a Redox-Coupled Covalent-Organic Framework Hybrid Photoelectrochemical Cathode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15
11494	Phase transition correlated grain growth in CdSe thin films: Annealing evolution to cadmium chloride activation. <i>Physica B: Condensed Matter</i> , 2023, 649, 414422.	1.3	8
11495	2D Transition Metal Dichalcogenides-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	54
11496	Capturing Solar Energy for Cathodic Protection of Metals: The Life of Photoexcited Charge Carriers. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	5
11497	Single-Atom Transition Metal Photocatalysts for Hydrogen Evolution Reactions. <i>Catalysts</i> , 2022, 12, 1304.	1.6	4
11498	Surface engineering of Ba-doped TiO <sub>2</sub> nanorods by Bi <sub>2</sub> O <sub>3</sub> passivation and (NiFe)OOH Co-catalyst layers for efficient and stable solar water oxidation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 40920-40931.	3.8	7
11499	Role of titanium and organic precursors in molecular layer deposition of "titanicene"-hybrid materials. <i>Beilstein Journal of Nanotechnology</i> , 0, 13, 1240-1255.	1.5	1
11500	Photoelectrochemically driven nanoparticulate semiconductors as nanobipolar electrodes for advanced water remediation. <i>Cell Reports Physical Science</i> , 2022, 3, 101132.	2.8	3
11501	Defect-rich MoS <sub>2</sub> /NiS <sub>2</sub> nanosheets loaded on SiNWs for efficient and stable photoelectrochemical hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2023, 631, 133-142.	5.0	8
11502	Synergistically improved photovoltaic performances of dye-sensitized solar cells with metal-free organic cosensitizer and hybrid rGO-TiO <sub>2</sub> photoanode. <i>Dyes and Pigments</i> , 2023, 209, 110892.	2.0	7
11503	Stability of van der Waals FePX <sub>3</sub> materials (X: S, Se) for water-splitting applications. <i>2D Materials</i> , 2023, 10, 014008.	2.0	6

#	ARTICLE	IF	CITATIONS
11504	One-pot hydrothermal in situ growth of In <sub>4</sub> SnS <sub>8</sub> @MoS <sub>2</sub> @CNTs as efficient Pt-free counter electrodes for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2023, 932, 167643.	2.8	4
11505	Carbazole based D- $\pi$ -A dyes for DSSC applications: DFT/TDDFT study of the influence of $\pi$ -spacers on the photovoltaic performance. <i>Chemical Physics</i> , 2023, 565, 111738.	0.9	5
11506	Adsorption structures of catechol on the ZnO(10-10) surface. <i>Applied Surface Science</i> , 2023, 610, 155504.	3.1	1
11507	Surface charge recombination matters for single-versus polycrystalline catalysts in the case study of hematite photoanodes. <i>Applied Surface Science</i> , 2023, 610, 155501.	3.1	5
11508	Efficient natural dye sensitized solar cell from PVDF based polymer electrolyte filled with layered graphite. <i>International Journal of Materials Research</i> , 2022, 113, 1045-1052.	0.1	1
11509	Bipolarized intrinsic faradaic layer on a semiconductor surface under illumination. <i>National Science Review</i> , 2023, 10, .	4.6	3
11510	Organic Semiconductor for Hydrogen Production. , 0, , .		0
11511	A Molecularly Tailored Photosensitizer with an Efficiency of 13.2% for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2023, 35, .	11.1	18
11512	Self-assembled supramolecular materials for photocatalytic H <sub>2</sub> production and CO <sub>2</sub> reduction. <i>Materials Futures</i> , 2022, 1, 042104.	3.1	9
11513	Strategies to Enhance the Rate of Proton-Coupled Electron Transfer Reactions in Dye-Water Oxidation Catalyst Complexes. <i>ChemPhotoChem</i> , 0, , .	1.5	0
11514	Effect of halogen doping on the electronic, electrical, and optical properties of anatase TiO <sub>2</sub> . <i>AIP Advances</i> , 2022, 12, .	0.6	2
11515	Electrodeposited PPY@TiO <sub>2</sub> and PEDOT@TiO <sub>2</sub> Counter Electrodes for [Co(bpy) <sub>3</sub> ] <sup>2+/3+</sup> Redox Mediator-Based Dye-Sensitized Solar Cells. <i>Inorganics</i> , 2022, 10, 213.	1.2	2
11516	Improved Photoelectrochemical Performance of BiVO <sub>4</sub> for Water Oxidation Enabled by the Integration of the Ni@NiO Core-Shell Structure. <i>Catalysts</i> , 2022, 12, 1456.	1.6	2
11517	Efficient counter electrode for copper (I)(II)-mediated dye-sensitized solar cells based on polyvinyl alcohol capped platinum nanoclusters. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 142, 104626.	2.7	5
11518	An investigation of the effects of ZnO inverse opal pore size in the composite of ZnO nanorods/ZnO inverse opal on the performance of quantum dot-sensitized solar cells. <i>Dalton Transactions</i> , 2022, 52, 81-89.	1.6	33
11519	Improving charge transfer in phosphate ion-modified hematite photoanode via decoration with gold nanostructures. <i>Applied Catalysis A: General</i> , 2023, 650, 118979.	2.2	3
11520	Maneuvering cuprous oxide-based photocathodes for solar-to-fuel conversion. <i>Coordination Chemistry Reviews</i> , 2023, 477, 214948.	9.5	9
11521	NO <sub>2</sub> -sensing properties of WS <sub>2</sub> /WO <sub>3</sub> heterostructures obtained by hydrothermal treatment of tungsten oxide seed materials. <i>Chemical Physics Letters</i> , 2023, 812, 140269.	1.2	6



#	ARTICLE	IF	CITATIONS
11522	Enhanced charge carrier density of a p-n BiOCl/BiVO <sub>4</sub> heterostructure by Ni doping for photoelectrochemical applications. <i>Journal of Alloys and Compounds</i> , 2023, 937, 168434.	2.8	7
11523	Dual bandgap operation of a GaAs/Si photoelectrode. <i>Solar Energy Materials and Solar Cells</i> , 2023, 251, 112138.	3.0	4
11524	Density functional theory investigation of Pr adsorption on the anatase TiO <sub>2</sub> (101) surface for photovoltaic applications. <i>Applied Surface Science</i> , 2023, 613, 156042.	3.1	2
11525	2D Materials for Photovoltaics. , 2022, , 1-51.		0
11526	Nanomaterials design for photoelectrochemical water oxidation. , 2023, , 515-532.		1
11527	Tunable broadband superradiance near a graphene/hyperbolic metamaterial/graphene sandwich structure. <i>European Physical Journal B</i> , 2022, 95, .	0.6	2
11528	Two-dimensional SiC/AlN based type-II van der Waals heterobilayer as a promising photocatalyst for overall water disassociation. <i>Scientific Reports</i> , 2022, 12, .	1.6	7
11529	Low cost and efficient counter electrode for solid-state natural dye-sensitized solar cells. <i>Journal of Applied Electrochemistry</i> , 2023, 53, 513-522.	1.5	3
11530	Computational Study on D-π-A-Based Metal-Free Donor-Tuned Molecules for Efficient Organic Dye-Sensitized Solar Cells. <i>Journal of Computational Biophysics and Chemistry</i> , 2023, 22, 231-241.	1.0	2
11531	Advanced Photoelectrochemical Hydrogen Generation by CdO-g-C <sub>3</sub> N <sub>4</sub> in Aqueous Medium under Visible Light. <i>Molecules</i> , 2022, 27, 8646.	1.7	3
11532	Charge Transfer as Bridging Correlator for DSSC Efficiency and NLO Property. <i>ChemistrySelect</i> , 2022, 7, .	0.7	5
11533	Effect of Plant Nanocellulose Electrolyte, Zinc Oxide Nanoparticles, and Nano-Chlorophyll Sensitiser on the Dye-Sensitised Solar Cell Performance. <i>Crystals</i> , 2022, 12, 1771.	1.0	0
11534	Hole transport layers in organic solar cells: A review. , 2022, 32, 1-22.		6
11535	Long-Term Stability Challenges and Opportunities in Acidic Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
11537	Development of Sulfur-Doped Graphitic Carbon Nitride for Hydrogen Evolution under Visible-Light Irradiation. <i>Nanomaterials</i> , 2023, 13, 62.	1.9	10
11538	TiO <sub>2</sub> nanotubes fabricated by electrochemical anodization in molten o-H <sub>3</sub> PO <sub>4</sub> -based electrolyte: Properties and applications. <i>Current Opinion in Colloid and Interface Science</i> , 2023, 63, 101672.	3.4	5
11539	S-scheme heterojunction photocatalysts for CO <sub>2</sub> reduction. <i>Matter</i> , 2022, 5, 4187-4211.	5.0	140
11540	Long-Term Stability Challenges and Opportunities in Acidic Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	61

#	ARTICLE	IF	CITATIONS
11541	Photoelectrocatalytic synthesis of aromatic azo compounds over porous nanoarrays of bismuth vanadate. <i>Chem Catalysis</i> , 2023, 3, 100472.	2.9	3
11542	Highly Crystalline Wurtzite CdS Prepared by a Flux Method and Application to Photocatalysis. <i>ACS Applied Energy Materials</i> , 2022, 5, 14652-14657.	2.5	2
11543	Coherent-Twinning-Enhanced Solar Water Splitting in Thin-Film Cu <sub>2</sub> ZnSnS <sub>4</sub> Photocathodes. <i>ACS Energy Letters</i> , 2023, 8, 494-501.	8.8	9
11544	Orbital Mixing between Colloidal Quantum Dots and Surface-Bound Molecules. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 11892-11898.	2.1	1
11545	Self-Organization Effects of Thin ZnO Layers on the Surface of Porous Silicon by Formation of Energetically Stable Nanostructures. <i>Materials</i> , 2023, 16, 838.	1.3	3
11546	Plasmonic semiconductors for advanced artificial photosynthesis. , 2023, 2, 100047.		3
11547	Boosted charge transfer and CO <sub>2</sub> photoreduction by construction of S-scheme heterojunctions between Cs <sub>2</sub> AgBiBr <sub>6</sub> nanosheets and two-dimensional metal-organic frameworks. <i>Journal of Materials Chemistry C</i> , 2023, 11, 2540-2551.	2.7	26
11548	Photochemically Etching BiVO <sub>4</sub> to Construct Asymmetric Heterojunction of BiVO <sub>4</sub> /BiO <sub>x</sub> Showing Efficient Photoelectrochemical Water Splitting. <i>Small Methods</i> , 2023, 7, .	4.6	12
11549	Strategies to Improve the Photochromic Properties and Photovoltaic Performances of Naphthopyran Dyes in Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	10
11550	Surface charge-directed borophene-phosphorous nitride nanodot heterojunction supports for enhanced photoelectrochemical performance. <i>Chemical Communications</i> , 2023, 59, 1955-1958.	2.2	3
11551	Perovskite solar cell with SnO <sub>2</sub> mesoporous thin films as electron transport layer: facile fabrication, investigation of the effects of growth parameters. <i>EPJ Applied Physics</i> , 2023, 98, 1.	0.3	0
11552	Organic Solar Cells: Physical Principle and Recent Advances. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	1.7	16
11553	Achieving Tunable Selectivity and Activity of CO <sub>2</sub> Electroreduction to CO via Bimetallic Silver-Copper Electronic Engineering. <i>Small</i> , 2023, 19, .	5.2	8
11554	Dissolution of WO <sub>3</sub> modified with IrO <sub>x</sub> overlayers during photoelectrochemical water splitting. <i>SusMat</i> , 2023, 3, 128-136.	7.8	3
11555	Advanced oxygen evolution reaction catalysts for solar-driven photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2023, 11, 3888-3903.	5.2	40
11556	Hematite-based photoanodes for photoelectrochemical water splitting: Performance, understanding, and possibilities. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109224.	3.3	5
11557	MoSe <sub>2</sub> -nanoflowers as bi-functional electro-catalyst: An efficient counter electrode material for dye-sensitized solar cells and electrode modifier for hydrazine sensor. <i>Materials Chemistry and Physics</i> , 2023, 296, 127260.	2.0	4
11558	Progress in transition metal chalcogenides-based counter electrode materials for dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2023, 156, 107273.	1.9	13

#	ARTICLE	IF	CITATIONS
11559	Effect of site geometry on oxygen K, and silver and gallium L2,3 energy loss spectra of AgGaO <sub>2</sub> polymorphs: A DFT study. <i>Micron</i> , 2023, 166, 103400.	1.1	2
11560	Electrodeposition of One-Dimensional Nanostructures: Environmentally Friendly Method. <i>Journal of Composites and Biodegradable Polymers</i> , 0, 10, 19-42.	0.3	1
11561	Facile Synthesis of Gram-Scale Mesoporous Ag/TiO <sub>2</sub> Photocatalysts for Pharmaceutical Water Pollutant Removal and Green Hydrogen Generation. <i>ACS Omega</i> , 2023, 8, 1249-1261.	1.6	5
11562	Structural Engineering of BiVO <sub>4</sub> /CoFe MOF Heterostructures Boosting Charge Transfer for Efficient Photoelectrochemical Water Splitting. <i>Small</i> , 2023, 19, .	5.2	20
11563	One-step hydrothermal synthesis of Sn-doped $\text{Fe}_2\text{O}_3$ nanoparticles for enhanced photocatalytic degradation of Congo red. <i>Journal of Semiconductors</i> , 2022, 43, 122001.	2.0	2
11564	Application Development with Finite Element Method to Calculate Photogeneration Rate and Open-Circuit Voltage of Dye Sensitized Solar Cell. <i>System Theory, Control and Computing Journal</i> , 2022, 2, 17-24.	0.3	1
11565	A quantitative model of charge injection by ruthenium chromophores connecting femtosecond to continuous irradiance conditions. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	1
11566	Broad perspective of environmental remediation technology and their recent advances through size-and shape-dependent properties of metal oxides. , 2023, , 1-34.		0
11567	New carbazole-based dyes for efficient dye-sensitized solar cells: a DFT insight. <i>Structural Chemistry</i> , 2023, 34, 1827-1842.	1.0	2
11568	High-resolution 3D printing for healthcare. , 2023, , 225-271.		1
11569	Synthesis of WO <sub>3</sub> @WS <sub>2</sub> core-shell nanostructures via solution-based sulfurization for improved performance of water splitting. <i>RSC Advances</i> , 2023, 13, 4150-4155.	1.7	2
11570	The impact of electrolytic pH on photoelectrochemical water oxidation. <i>RSC Advances</i> , 2023, 13, 4324-4330.	1.7	1
11571	Structure, materials, and preparation of photoelectrodes. , 2023, , 83-174.		1
11572	Synthesis of TiO <sub>2</sub> Nanobelt Bundles Decorated with TiO <sub>2</sub> Nanoparticles and Aggregates and Their Use as Anode Materials for Lithium-Ion Batteries. <i>Micromachines</i> , 2023, 14, 243.	1.4	5
11573	Supramolecular Coordination Cages for Artificial Photosynthesis and Synthetic Photocatalysis. <i>Chemical Reviews</i> , 2023, 123, 5225-5261.	23.0	56
11574	Air-based sputtering deposition of titanium oxynitride-based single, gradient, and multi-layer thin films for photoelectrochemical applications. <i>Ceramics International</i> , 2023, 49, 15891-15899.	2.3	3
11575	Investigation of the influence for ZnSe phase in Ag <sub>2</sub> ZnSnSe <sub>4</sub> and ZnO/Ag <sub>2</sub> ZnSnSe <sub>4</sub> photoanodes on their photoelectrochemical activities in salt water solution. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 15975-15991.	3.8	1
11577	Scalable synthesis of BiVO <sub>4</sub> thin films via anodic plating and thermal calcination. <i>Nanoscale Research Letters</i> , 2023, 18, .	3.1	0

#	ARTICLE	IF	CITATIONS
11578	Enhanced photoelectrochemical response of reduced graphene oxide covered inexpensive TiO <sub>2</sub> -BiFeO <sub>3</sub> composite photoanodes. <i>Materials Research Bulletin</i> , 2023, 162, 112183.	2.7	3
11579	Graphene quantum dots and their role in environmental sustainability. , 2023, , 227-249.		0
11580	Copper(II) and cobalt(III) Schiff base complexes with hydroxy anchors as sensitizers in dye-sensitized solar cells (DSSCs). <i>RSC Advances</i> , 2023, 13, 9046-9054.	1.7	7
11581	Innocuous hybrid-halide perovskite solar cells based on titania nanowires towards eco-friendly solar energy conversion. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	1
11582	Role of Pi-Electron Density at the Interface of Small Molecule-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2023, 127, 3928-3939.	1.5	3
11583	Role of anchoring groups on the light harvesting and optoelectronic properties of triphenylamine derivatives: insights from theory. <i>Journal of Molecular Modeling</i> , 2023, 29, .	0.8	1
11584	Co-active impact of surface hydroxyls on the solvation shell and dye adsorption of <i>Mitragyna Speciosa</i> chlorophyll molecules in dye-sensitized solar cells. <i>Journal of the Iranian Chemical Society</i> , 0, , .	1.2	0
11585	An overview of deep eutectic solvents: Alternative for organic electrolytes, aqueous systems & ionic liquids for electrochemical energy storage. <i>Journal of Energy Chemistry</i> , 2023, 82, 592-626.	7.1	17
11586	Facile fabrication of P-type hematite thin film and application for enhanced photoelectrochemical oxygen evolution reaction efficiency. <i>Journal of Physics and Chemistry of Solids</i> , 2023, 178, 111370.	1.9	0
11587	Structure, magnetic, and photocatalysis of La <sub>0.7</sub> Sr <sub>0.3</sub> MO <sub>3</sub> (M = Mn, Co, and Fe) perovskite nanoparticles: Novel photocatalytic materials. <i>Environmental Science and Pollution Research</i> , 2023, 30, 61106-61122.	2.7	2
11588	Promoting photoelectrochemical water oxidation of BiVO <sub>4</sub> photoanode via Co-MOF-derived heterostructural cocatalyst. <i>Applied Surface Science</i> , 2023, 619, 156710.	3.1	13
11589	Synthesis and performance of polythiophene-iridium oxide composite as counter electrode in dye sensitized solar cell. <i>Current Applied Physics</i> , 2023, 49, 64-69.	1.1	3
11590	Combined metal ferrite oxide photoanodes and photocathodes for unassisted sunlight-driven tandem photoelectrochemical cells. <i>Inorganic Chemistry Communication</i> , 2023, 151, 110631.	1.8	1
11591	Emerging tetrapyrrole porous organic polymers for chemosensing applications. <i>Coordination Chemistry Reviews</i> , 2023, 482, 215078.	9.5	8
11592	Sequential coating of Sb-doped SnO nanowire for photoelectrochemical cells of panchromatic light absorption and low thermalization loss. <i>Journal of Power Sources</i> , 2023, 570, 232989.	4.0	1
11593	Improving loading of CdS/CdSe co-sensitized quantum dots to enhance the performance of solar cells by voltage-assisted SILAR deposition. <i>Solar Energy Materials and Solar Cells</i> , 2023, 255, 112293.	3.0	3
11594	Photoreforming of Waste Polymers for Sustainable Hydrogen Fuel and Chemicals Feedstock: Waste to Energy. <i>Chemical Reviews</i> , 2023, 123, 4443-4509.	23.0	47
11595	A convenient and environment-friendly method of photo-degradation of graphene oxide in water. <i>Materials Today Communications</i> , 2023, 35, 105951.	0.9	0



#	ARTICLE	IF	CITATIONS
11615	Fluorescence. , 2023, , 245-329.		0
11616	Photoelectrochemical Performance of Strontium Titanium Oxynitride Photo-Activated with Cobalt Phosphate Nanoparticles for Oxidation of Alkaline Water. <i>Nanomaterials</i> , 2023, 13, 920.	1.9	2
11617	Double-layered TiO <sub>2</sub> cavity/nanoparticle photoelectrodes for efficient dye-sensitized solar cells. <i>Frontiers of Materials Science</i> , 2023, 17, .	1.1	1
11618	Ruthenium Nitrosyl Complexes: Photoinduced Delivery of NO to Different Biological Targets. , 2023, , 425-445.		0
11619	Numerical modelling of the effect of the Ag: ZnSe BSF layer on the high performance of ZnSe/CdTe thin film solar cells by SCAPS-1D software. <i>Optical and Quantum Electronics</i> , 2023, 55, .	1.5	2
11620	Hierarchical Waterweed-like Photoanodes for Sustainable Photoelectrochemical Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2023, 6, 3460-3467.	2.5	0
11621	Self-Seeding Synthesis of Hierarchically Branched Rutile TiO <sub>2</sub> for High-Efficiency Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2023, 8, 9843-9853.	1.6	2
11622	Recent advances in ground-breaking conjugated microporous polymers-based materials, their synthesis, modification and potential applications. <i>Materials Today</i> , 2023, 64, 180-208.	8.3	37
11623	Divalent organic cations as a novel protective layer for perovskite materials. <i>Journal of Materials Chemistry A</i> , 2023, 11, 11684-11695.	5.2	3
11624	Effect of Jahnâ€Teller Distortion on the Carrier Migration in Cu-Doped TiO <sub>2</sub> Nanoarray for Enhanced Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2023, 127, 5552-5560.	1.5	0
11625	Hydration Mechanisms of Tungsten Trioxide Revealed by Water Adsorption Isotherms and First-Principles Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2023, 127, 5584-5596.	1.5	1
11626	Narrow-Band-Gap Particulate Photocatalysts for One-Step-Excitation Overall Water Splitting. <i>Accounts of Chemical Research</i> , 2023, 56, 878-888.	7.6	20
11627	Multicomponent synthesis of chromophores â€“ The one-pot approach to functional ĩ€-systems. <i>Frontiers in Chemistry</i> , 0, 11, .	1.8	5
11629	Advances in Solar-Derived Chemical Fuel Systems. <i>Energies</i> , 2023, 16, 2864.	1.6	1
11630	Bonds over Electrons: Proton Coupled Electron Transfer at Solidâ€Solution Interfaces. <i>Journal of the American Chemical Society</i> , 2023, 145, 7050-7064.	6.6	14
11631	Remarkable Pyro-Catalysis of g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Dye Decoloration under Room-Temperature Coldâ€Hot Cycle Excitation. <i>Nanomaterials</i> , 2023, 13, 1124.	1.9	5
11632	Understanding the fundamentals of TiO <sub>2</sub> surfacesPart II. Reactivity and surface chemistry of TiO <sub>2</sub> single crystals. <i>Surface Engineering</i> , 2022, 38, 846-906.	1.1	0
11633	Synthesis of efficient bi-anchoring bifuran/biphenyl derivatives for dye-sensitized solar cell applications. <i>RSC Advances</i> , 2023, 13, 9720-9731.	1.7	3

#	ARTICLE	IF	CITATIONS
11634	Panchromatic light harvesting and record power conversion efficiency for carboxylic/cyanoacrylic Fe( $\text{N}^{\text{C}}\text{N}^{\text{C}}$ ) NHC co-sensitized FeSSCs. <i>Chemical Science</i> , 2023, 14, 4288-4301.	3.7	10
11635	Electrochemical properties and performance of the pulsed laser deposited CZTS counter electrode-based DSSCs. <i>Bulletin of Materials Science</i> , 2023, 46, .	0.8	3
11636	Mechanistic Insights on Permeation of Water over Iron Cations in Nanoporous Silicon Oxide Films for Selective $\text{H}_2$ and $\text{O}_2$ Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 17814-17824.	4.0	0
11637	EPDM rubber-based membranes for electrochemical water splitting and carbon dioxide reduction reactions. <i>Journal of Solid State Electrochemistry</i> , 0, , .	1.2	0
11638	Novel Structure of Three-Dimensional $\text{TiO}_2$ with a Fascinating Quasi-direct Band Gap for Photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	0
11639	Electrochemical power sources: Photoelectrochemical cells. , 2023, , .		0
11640	$\text{Br}^{\cdot}/\text{BrO}_2^{\cdot}$ -mediated highly efficient photoelectrochemical epoxidation of alkenes on $\text{Fe}_2\text{O}_3$ . <i>Nature Communications</i> , 2023, 14, .	5.8	13
11641	Polaron-assisted nonadiabatic dynamics in protonated $\text{TiO}_2$ with surface water molecule. <i>ChemPhysMater</i> , 2023, 2, 331-336.	1.4	0
11642	Photovoltaic Effects of Dye-Sensitized Solar Cells Using Double-Layered $\text{TiO}_2$ Photoelectrodes and Pyrazine-Based Photosensitizers. <i>ACS Omega</i> , 2023, 8, 14699-14709.	1.6	1
11643	Improvement of dye-sensitized solar cells' performance via co-sensitization of new azo thiazole organic dyes with ruthenium (II) based N-719 dye. <i>Journal of Saudi Chemical Society</i> , 2023, 27, 101643.	2.4	6
11644	Quantum Chemical Elucidation on the Optoelectronic Properties of $\text{N}_2$ -(4-Aminophenyl)Pyridine-2,5-Diamine Based Dyes for Solar Cells Utilization. <i>Chemistry Africa</i> , 0, , .	1.2	0
11645	Enhancement of charge separation and hole utilization in a $\text{Ni}_2\text{P}_2\text{O}_7$ - $\text{Nd-BiVO}_4$ photoanode for efficient photoelectrochemical water oxidation. <i>Journal of Colloid and Interface Science</i> , 2023, 644, 124-133.	5.0	5
11646	Interface-Engineered Ni-Coated CdTe Heterojunction Photocathode for Enhanced Photoelectrochemical Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 21057-21065.	4.0	6
11648	Temperature-Controlled Transformation of $\text{WO}_3$ Nanowires into Active Facets-Exposed Hexagonal Prisms toward Efficient Visible-Light-Driven Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 20885-20896.	4.0	0
11653	Microspheres "Colors from the Beaker. , 2008, , 431-518.		0
11654	Selected Applications of Nanomaterials. , 2014, , 369-419.		0
11656	Plasmonic-Based $\text{TiO}_2$ and $\text{TiO}_2$ Nanoparticles for Photocatalytic $\text{CO}_2$ to Methanol Conversion in Energy Applications: Current Status and Future Prospects. <i>Topics in Catalysis</i> , 2024, 67, 232-245.	1.3	6
11661	Organic materials as charge hosts for pseudocapacitive energy storage. <i>Sustainable Energy and Fuels</i> , 2023, 7, 2802-2818.	2.5	1

#	ARTICLE	IF	CITATIONS
11667	Relative examination on performances of bare titania and SnO <sub>2</sub> stacked titania as photoanodes. AIP Conference Proceedings, 2023, , .	0.3	0
11669	Perovskite in catalysis and electrocatalysis. , 2023, , 577-594.		1
11670	Aptamer-based analysis of food additives. , 2023, , 173-212.		0
11672	TiO <sub>2</sub> Nanostructures by Sol-Gel Processing. , 0, , .		0
11676	Using ambient pressure X-ray photoelectron spectroscopy to characterize electrode/electrolyte interfaces in situ and operando. , 2024, , 266-282.		0
11680	S-scheme photocatalyst. Interface Science and Technology, 2023, , 53-102.	1.6	1
11704	Nanostructured Thin Films by Hydrothermal Method. , 2023, , 305-345.		0
11708	Investigation on Various Polymer Electrolytes for Development of Dye Sensitized Solar Cell. , 2023, , 158-173.		0
11709	Ionic Liquid-Based Electrolyte for Application in Photoelectrochemical cells: A Future Insight. , 2023, , 326-353.		0
11724	Photocatalytic Seawater Splitting for hydrogen fuel production: Impact of Seawater Components and Accelerating Reagents on the Overall Performance. Sustainable Energy and Fuels, 0, , .	2.5	2
11726	Quality inspection of Titanium-dioxide blocking layers for efficient Dye sensitized solar cells photoanode. , 2023, , .		0
11750	Sustainable Sanitation Technology: Transformation of Sanitation Waste into Useful Element. , 2023, , 197-213.		0
11756	Advances in photochemical deposition for controllable synthesis of heterogeneous catalysts. Nanoscale, 2023, 15, 13909-13931.	2.8	2
11771	Application of Nanostructured Metal Oxides and Its Hybrids for Inactivation of Bacteria and Viruses. Advances in Material Research and Technology, 2023, , 53-80.	0.3	0
11796	Ultrafast charge transfer in metal-free H <sub>2</sub> O <sub>2</sub> photoproduction by anhydride modified g-C <sub>3</sub> N <sub>4</sub> . Chemical Communications, 0, , .	2.2	0
11804	Electrochemical hydrogen production: sustainable hydrogen economy. Green Chemistry, 2023, 25, 9543-9573.	4.6	3
11810	Bio-Based Polyurethane Polymer Electrolyte for Dye Solar Cells Application. ACS Symposium Series, 0, , 37-62.	0.5	1
11813	Synthesis and hybridization of CuInS <sub>2</sub> nanocrystals for emerging applications. Chemical Society Reviews, 2023, 52, 8374-8409.	18.7	2



#	ARTICLE	IF	CITATIONS
11814	Dye Sensitized Cells: The Powerhouse for Indoor/Ambient Light Harvesting. , 2023, , .		0
11833	Recent Progress on Phenothiazine Tethered Sensitizers for Dye-Sensitized Solar Cells. , 2023, , .		0
11838	Dimensional Engineering of 2D/3D Perovskite Halides for Efficient and Stable Solar Cells. Indian Institute of Metals Series, 2024, , 431-456.	0.2	0
11865	Designing Idealised Devices for Bias-Free Solar Water Splitting. Sustainable Energy and Fuels, 0, , .	2.5	0
11895	Seaweed Photosynthetic Pigments as Eco-Friendly Sensitizer for Dye-Sensitized Solar Cell. , 2024, , .		0
11898	Nanoceramics in advanced materials industry for renewable energy and storage. , 2024, , 293-319.		0
11899	Photochemistry: from basic principles to photocatalysis. , 2024, , 1-24.		0