Yan Shen

List of Publications by Citations

189 papers	8,605 citations	52 h-index	83 g-index
196 ext. papers	9,777 ext. citations	8.2 avg, IF	6.28 L-index

#	Paper	IF	Citations
189	Hole selective NiO contact for efficient perovskite solar cells with carbon electrode. *Nano Letters*, **2015**, 15, 2402-8	11.5	357
188	Scanning electrochemical microscopy for direct imaging of reaction rates. *Angewandte Chemie - International Edition*, **2007**, 46, 1584-617	16.4	319
187	Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1501534	21.8	247
186	Efficient screen printed perovskite solar cells based on mesoscopic TiO2/Al2O3/NiO/carbon architecture. *Nano Energy*, **2015**, 17, 171-179	17.1	225
185	Engineering NiS/NiP Heterostructures for Efficient Electrocatalytic Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 4689-4696	9.5	206
184	A power pack based on organometallic perovskite solar cell and supercapacitor. *ACS Nano*, **2015**, 9, 1782-7	13.7	167
183	Carbon Quantum Dots/TiO Electron Transport Layer Boosts Efficiency of Planar Heterojunction Perovskite Solar Cells to 19. *Nano Letters*, **2017**, 17, 2328-2335	11.5	166
182	Efficient Planar Perovskite Solar Cells with Improved Fill Factor via Interface Engineering with Graphene. *Nano Letters*, **2018**, 18, 2442-2449	11.5	154
181	Electrochemical Design of Ultrathin Platinum-Coated Gold Nanoparticle Monolayer Films as a Novel Nanostructured Electrocatalyst for Oxygen Reduction. *Journal of Physical Chemistry B*, **2004**, 108, 8142-8147	3.4	151
180	Flexible Supercapacitors Based on Bacterial Cellulose Paper Electrodes. *Advanced Energy Materials*, **2014**, 4, 1301655	21.8	149
179	Freestanding bacterial cellulose–polypyrrole nanofibres paper electrodes for advanced energy storage devices. *Nano Energy*, **2014**, 9, 309-317	17.1	146
178	Electrochemistry and Electrogenerated Chemiluminescence of SiO2Nanoparticles/Tris(2,2′-bipyridyl)ruthenium(II) Multilayer Films on Indium Tin Oxide Electrodes. *Analytical Chemistry*, **2004**, 76, 184-191	7.8	143
177	Subtle Balance Between Length Scale of Phase Separation and Domain Purification in Small-Molecule Bulk-Heterojunction Blends under Solvent Vapor Treatment. *Advanced Materials*, **2015**, 27, 6296-302	24	141
176	Electronic modulation of transition metal phosphide doping as efficient and pH-universal electrocatalysts for hydrogen evolution reaction. *Chemical Science*, **2018**, 9, 1970-1975	9.4	131
175	14.7% efficient mesoscopic perovskite solar cells using single walled carbon nanotubes/carbon composite counter electrodes. *Nanoscale*, **2016**, 8, 6379-85	7.7	129
174	Photovoltaic behaviour of lead methylammonium triiodide perovskite solar cells down to 80 K. *Journal of Materials Chemistry A*, **2015**, 3, 11762-11767	13	118
173	Highly Efficient Perovskite Solar Cells with Gradient Bilayer Electron Transport Materials. *Nano Letters*, **2018**, 18, 3969-3977	11.5	107

172	Detection of hydrogen peroxide produced during electrochemical oxygen reduction using scanning electrochemical microscopy. *Analytical Chemistry*, **2008**, 80, 750-9	7.8	105
171	Enhancing Efficiency of Perovskite Solar Cells via Surface Passivation with Graphene Oxide Interlayer. *ACS Applied Materials & Interfaces*, **2017**, 9, 38967-38976	9.5	97
170	Fabrication of a Metalloporphyrin□Polyoxometalate Hybrid Film by a Layer-by-Layer Method and Its Catalysis for Hydrogen Evolution and Dioxygen Reduction. *Journal of Physical Chemistry B*, **2003**, 107, 9744-9748	3.4	97
169	New generation perovskite solar cells with solution-processed amino-substituted perylene diimide derivative as electron-transport layer. *Journal of Materials Chemistry A*, **2016**, 4, 8724-8733	13	96
168	17% efficient printable mesoscopic PIN metal oxide framework perovskite solar cells using cesium-containing triple cation perovskite. *Journal of Materials Chemistry A*, **2017**, 5, 22952-22958	13	95
167	A perovskite solar cell-TiO2@BiVO4 photoelectrochemical system for direct solar water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 21630-21636	13	91
166	Spiro-thiophene derivatives as hole-transport materials for perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 12139-12144	13	87
165	Simultaneous electrochemical determination of ascorbic acid, dopamine and uric acid with helical carbon nanotubes. *Electrochimica Acta*, **2013**, 91, 261-266	6.7	84
164	Efficient planar perovskite solar cells using halide Sr-substituted Pb perovskite. *Nano Energy*, **2017**, 36, 213-222	17.1	83
163	Artificial photosynthesis of ethanol using type-II g-C3N4/ZnTe heterojunction in photoelectrochemical CO2 reduction system. *Nano Energy*, **2019**, 60, 827-835	17.1	80
162	Nanocomposite Multilayer Film of Preyssler-Type Polyoxometalates with Fine Tunable Electrocatalytic Activities. *Journal of Physical Chemistry B*, **2004**, 108, 9780-9786	3.4	80
161	Recent progress in efficient hybrid lead halide perovskite solar cells. *Science and Technology of Advanced Materials*, **2015**, 16, 036004	7.1	72
160	Will organic□inorganic hybrid halide lead perovskites be eliminated from optoelectronic applications?. *Nanoscale Advances*, **2019**, 1, 1276-1289	5.1	71
159	Surface Plasmon Resonance Effect in Inverted Perovskite Solar Cells. *Advanced Science*, **2016**, 3, 1500312	13.6	70
158	Highly Efficient Perovskite Solar Cells via Nickel Passivation. *Advanced Functional Materials*, **2018**, 28, 1804286	15.6	70
157	Porous Li4Ti5O12□TiO2 nanosheet arrays for high-performance lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 10107-10113	13	68
156	Electrocatalytic Reduction of Oxygen at Multi-Walled Carbon Nanotubes and Cobalt Porphyrin Modified Glassy Carbon Electrode. *Electroanalysis*, **2004**, 16, 1444-1450	3	68
155	A New Method for Fitting Current-Voltage Curves of Planar Heterojunction Perovskite Solar Cells. *Nano-Micro Letters*, **2018**, 10, 5	19.5	66

154	Active catalysts based on cobalt oxide@cobalt/N-C nanocomposites for oxygen reduction reaction in alkaline solutions. *Nano Research*, **2014**, 7, 1054-1064	10	65
153	Direct electrochemistry of microperoxidase 11 using carbon nanotube modified electrodes. *Journal of Electroanalytical Chemistry*, **2005**, 578, 121-127	4.1	65
152	Zinc porphyrins with a pyridine-ring-anchoring group for dye-sensitized solar cells. *Chemistry - an Asian Journal*, **2013**, 8, 956-62	4.5	64
151	Photoelectrochemical kinetics of eosin y-sensitized zinc oxide films investigated by scanning electrochemical microscopy. *Chemistry - A European Journal*, **2006**, 12, 5832-9	4.8	62
150	Self-standing Bi2O3 nanoparticles/carbon nanofiber hybrid films as a binder-free anode for flexible sodium-ion batteries. *Materials Chemistry Frontiers*, **2017**, 1, 1615-1621	7.8	61
149	Efficient mesoscopic perovskite solar cells based on the CH3NH3PbI2Br light absorber. *Journal of Materials Chemistry A*, **2015**, 3, 9116-9122	13	61
148	Organic Sensitizers with Pyridine Ring Anchoring Group for p-Type Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16433-16440	3.8	61
147	Fabrication of cobalt porphyrin. Electrochemically reduced graphene oxide hybrid films for electrocatalytic hydrogen evolution in aqueous solution. *Langmuir*, **2014**, 30, 6990-8	4	61
146	Preparation of hybrid thin film modified carbon nanotubes on glassy carbon electrode and its electrocatalysis for oxygen reduction. *Chemical Communications*, **2004**, 34-5	5.8	60
145	Graphene oxide wrapped CH3NH3PbBr3 perovskite quantum dots hybrid for photoelectrochemical CO2 reduction in organic solvents. *Applied Surface Science*, **2019**, 465, 607-613	6.7	60
144	Significant enhancement of the photoelectrochemical activity of WO3 nanoflakes by carbon quantum dots decoration. *Carbon*, **2016**, 105, 387-393	10.4	58
143	D-A structured porphyrins for efficient dye-sensitized solar cells. *Journal of Materials Chemistry A* , **2013**, 1, 10008	13	58
142	Recent progress on stability issues of organic–inorganic hybrid lead perovskite-based solar cells. *RSC Advances*, **2016**, 6, 89356-89366	3.7	57
141	Full printable perovskite solar cells based on mesoscopic TiO2/Al2O3/NiO (carbon nanotubes) architecture. *Solar Energy*, **2017**, 144, 158-165	6.8	56
140	Graphene oxide modified hole transport layer for CH3NH3PbI3 planar heterojunction solar cells. *Solar Energy*, **2016**, 131, 176-182	6.8	56
139	Li4Ti5O12-TiO2 nanowire arrays constructed with stacked nanocrystals for high-rate lithium and sodium ion batteries. *Journal of Power Sources*, **2017**, 344, 223-232	8.9	55
138	Rutile-TiO2 decorated Li4Ti5O12 nanosheet arrays with 3D interconnected architecture as anodes for high performance hybrid supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 23570-23576	13	55
137	N/Si co-doped oriented single crystalline rutile TiO2 nanorods for photoelectrochemical water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 10020-10025	13	52

136	MoS 2 nanosheet decorated with trace loads of Pt as highly active electrocatalyst for hydrogen evolution reaction. *Electrochimica Acta*, **2016**, 219, 187-193	6.7	52
135	MAPbI(3-x)Br(x) mixed halide perovskites for fully printable mesoscopic solar cells with enhanced efficiency and less hysteresis. *Nanoscale*, **2016**, 8, 8839-46	7.7	51
134	Highly efficient light harvesting ruthenium sensitizers for dye-sensitized solar cells featuring triphenylamine donor antennas. *Journal of Materials Chemistry A*, **2014**, 2, 4945-4953	13	51
133	Copper hexacyanoferrate multilayer films on glassy carbon electrode modified with 4-aminobenzoic acid in aqueous solution. *Talanta*, **2006**, 68, 741-7	6.2	50
132	Hybridizing NiCo2O4 and Amorphous NixCoy Layered Double Hydroxides with Remarkably Improved Activity toward Efficient Overall Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4784-4791	8.3	49
131	Black phosphorus quantum dots in inorganic perovskite thin films for efficient photovoltaic application. *Science Advances*, **2020**, 6, eaay5661	14.3	49
130	20% Efficient Perovskite Solar Cells with 2D Electron Transporting Layer. *Advanced Functional Materials*, **2019**, 29, 1805168	15.6	49
129	Carbon coated Cu2O nanowires for photo-electrochemical water splitting with enhanced activity. *Applied Surface Science*, **2015**, 358, 404-411	6.7	48
128	Achieving ordered and stable binary metal perovskite via strain engineering. *Nano Energy*, **2018**, 48, 117-127	17.1	48
127	Lead methylammonium triiodide perovskite-based solar cells: an interfacial charge-transfer investigation. *ChemSusChem*, **2014**, 7, 3088-94	8.3	47
126	Elektrochemische Rastermikroskopie zur direkten Abbildung von Reaktionsgeschwindigkeiten. *Angewandte Chemie*, **2007**, 119, 1604-1640	3.6	47
125	Promises and challenges of alloy-type and conversion-type anode materials for sodium□on batteries. *Materials Today Energy*, **2019**, 11, 46-60	7	47
124	Efficient p-type dye-sensitized solar cells based on disulfide/thiolate electrolytes. *Nanoscale*, **2013**, 5, 7963-9	7.7	46
123	Dopant-free 3,3?-bithiophene derivatives as hole transport materials for perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 3661-3666	13	45
122	Layered Ruddlesden□opper Efficient Perovskite Solar Cells with Controlled Quantum and Dielectric Confinement Introduced via Doping. *Advanced Functional Materials*, **2019**, 29, 1903293	15.6	44
121	Efficient carbon dots/NiFe-layered double hydroxide/BiVO4 photoanodes for photoelectrochemical water splitting. *Applied Surface Science*, **2018**, 439, 1065-1071	6.7	44
120	Electrochemically reduced graphene oxide multilayer films as metal-free electrocatalysts for oxygen reduction. *Journal of Materials Chemistry A*, **2013**, 1, 1415-1420	13	43
119	Low-Temperature Stable □Phase Inorganic Perovskite Compounds via Crystal Cross-Linking. *Journal of Physical Chemistry Letters*, **2019**, 10, 200-205	6.4	43

118	A new strategy of preparing uniform graphitic carbon nitride films for photoelectrochemical application. *Carbon*, **2017**, 117, 343-350	10.4	42
117	Effect of temperature on the efficiency of organometallic perovskite solar cells. *Journal of Energy Chemistry*, **2015**, 24, 729-735	12	42
116	Efficient CsSnI3-based inorganic perovskite solar cells based on a mesoscopic metal oxide framework via incorporating a donor element. *Journal of Materials Chemistry A*, **2020**, 8, 4118-4124	13	41
115	Electrochemical and electrogenerated chemiluminescence of clay nanoparticles/Ru(bpy)(3)(2+) multilayer films on ITO electrodes. *Analyst, The*, **2004**, 129, 657-63	5	40
114	Amino-functionalized conjugated polymer electron transport layers enhance the UV-photostability of planar heterojunction perovskite solar cells. *Chemical Science*, **2017**, 8, 4587-4594	9.4	39
113	Fabrication of Metalloporphyrin-Polyoxometalyte Hybrid Film by Layer-by-Layer Method and Its Catalysis for Dioxygen Reduction. *Electroanalysis*, **2002**, 14, 1557-1563	3	39
112	Hierarchical TiO2 spheres assisted with graphene for a high performance lithium–sulfur battery. *Journal of Materials Chemistry A*, **2016**, 4, 16454-16461	13	38
111	A highly selective tin-copper bimetallic electrocatalyst for the electrochemical reduction of aqueous CO2 to formate. *Applied Catalysis B: Environmental*, **2019**, 259, 118040	21.8	38
110	TiO2 nanotubes modified with electrochemically reduced graphene oxide for photoelectrochemical water splitting. *Carbon*, **2014**, 80, 591-598	10.4	38
109	Nanocomposite films containing Au nanoparticles formed by electrochemical reduction of metal ions in the multilayer films as electrocatalyst for dioxygen reduction. *Analytica Chimica Acta*, **2005**, 535, 15-22	6.6	38
108	Surface modification of NiCo2Te4 nanoclusters: a highly efficient electrocatalyst for overall water-splitting in neutral solution. *Applied Catalysis B: Environmental*, **2019**, 254, 424-431	21.8	37
107	ZnO decorated TiO2 nanosheet composites for lithium ion battery. *Electrochimica Acta*, **2015**, 182, 529-536	6.6	37
106	Photoelectrochemical kinetics of Eosin Y-sensitized zinc oxide films investigated by scanning electrochemical microscopy under illumination with different LED. *Electrochimica Acta*, **2009**, 55, 458-464	6.7	37
105	In Situ Growth of Ru Nanoparticles on (Fe,Ni)(OH)2 to Boost Hydrogen Evolution Activity at High Current Density in Alkaline Media. *Small Methods*, **2020**, 4, 1900796	12.8	36
104	TiO 2 -B@VS 2 heterogeneous nanowire arrays as superior anodes for lithium-ion batteries. *Journal of Power Sources*, **2017**, 350, 87-93	8.9	35
103	Carbazole oligomers revisited: new additions at the carbazole 1- and 8-positions. *RSC Advances*, **2012**, 2, 10821	3.7	35
102	Preparation of Multilayer Films Containing Pt Nanoparticles on a Glassy Carbon Electrode and Application as an Electrocatalyst for Dioxygen Reduction. *Langmuir*, **2003**, 19, 5397-5401	4	35
101	Phosphorus-doped TiO2-B nanowire arrays boosting robust pseudocapacitive properties for lithium storage. *Journal of Power Sources*, **2018**, 396, 327-334	8.9	34

100	Multifunctional organic□horganic multilayer films of tris(2,2?-bipyridine)ruthenium and decatungstate. *Electrochemistry Communications*, **2003**, 5, 913-918	5.1	33
99	Hybrid of Fe@Fe3O4 core-shell nanoparticle and iron-nitrogen-doped carbon material as an efficient electrocatalyst for oxygen reduction reaction. *Electrochimica Acta*, **2015**, 174, 933-939	6.7	32
98	Pyrene-conjugated porphyrins for efficient mesoscopic solar cells: the role of the spacer. *Journal of Materials Chemistry A*, **2014**, 2, 17495-17501	13	32
97	Nanostructured Nickel Cobaltite Antispinel as Bifunctional Electrocatalyst for Overall Water Splitting. *Journal of Physical Chemistry C*, **2017**, 121, 25888-25897	3.8	30
96	A catalyst based on copper-cadmium bimetal for electrochemical reduction of CO2 to CO with high faradaic efficiency. *Electrochimica Acta*, **2018**, 271, 544-550	6.7	30
95	Ultra-thin bacterial cellulose/poly(ethylenedioxythiophene) nanofibers paper electrodes for all-solid-state flexible supercapacitors. *Electrochimica Acta*, **2018**, 271, 624-631	6.7	30
94	Potassium-doped zinc oxide as photocathode material in dye-sensitized solar cells. *ChemSusChem*, **2013**, 6, 622-9	8.3	30
93	Enhancing photoelectrochemical water oxidation efficiency via self-catalyzed oxygen evolution: A case study on TiO2. *Nano Energy*, **2018**, 44, 411-418	17.1	30
92	Photoelectrochemical Water Splitting System--A Study of Interfacial Charge Transfer with Scanning Electrochemical Microscopy. *ACS Applied Materials & Interfaces*, **2016**, 8, 1606-14	9.5	29
91	Electrodeposited noble metal particles in polyelectrolyte multilayer matrix as electrocatalyst for oxygen reduction studied using SECM. *Physical Chemistry Chemical Physics*, **2008**, 10, 3635-44	3.6	28
90	RGO modified Ni doped FeOOH for enhanced electrochemical and photoelectrochemical water oxidation. *Applied Surface Science*, **2018**, 436, 974-980	6.7	28
89	Atomic-Scale Tailoring of Organic Cation of Layered Ruddlesden-Popper Perovskite Compounds. *Journal of Physical Chemistry Letters*, **2019**, 10, 1813-1819	6.4	27
88	BiOI□TiO2 Nanocomposites for Photoelectrochemical Water Splitting. *Advanced Materials Interfaces*, **2016**, 3, 1500273	4.6	27
87	Co9S8 hollow spheres for enhanced electrochemical detection of hydrogen peroxide. *Talanta*, **2015**, 141, 73-9	6.2	26
86	Pt Catalyst Supported within TiO2 Mesoporous Films for Oxygen Reduction Reaction. *Electrochimica Acta*, **2014**, 130, 97-103	6.7	26
85	Simple preparation method of Pd nanoparticles on an Au electrode and its catalysis for dioxygen reduction. *New Journal of Chemistry*, **2003**, 27, 938	3.6	26
84	Advances in design engineering and merits of electron transporting layers in perovskite solar cells. *Materials Horizons*, **2020**, 7, 2276-2291	14.4	26
83	D□A Porphyrin Sensitizers with □Extended Conjugation for Mesoscopic Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 14739-14748	3.8	25

82	Disulfide/Thiolate Based Redox Shuttle for Dye-Sensitized Solar Cells: An Impedance Spectroscopy Study. *Journal of Physical Chemistry C*, **2012**, 116, 25233-25241	3.8	25
81	Direct formation of I3- ions in organic cation solution for efficient perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2018**, 185, 111-116	6.4	25
80	The Role of Synthesis Parameters on Crystallization and Grain Size in Hybrid Halide Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2017**, 121, 17053-17061	3.8	24
79	Synthesis, characterization and fabrication on a glassy carbon electrode of a tetra-iron substituted sandwich-type pentadecatungstodiarsenate heteropolyanion. *New Journal of Chemistry*, **2003**, 27, 756-764	3.6	24
78	Three-dimensional TiO2 nanowire@NiMoO4 ultrathin nanosheet core-shell arrays for lithium ion batteries. *Applied Surface Science*, **2018**, 435, 641-648	6.7	24
77	Graphene oxide-protected three dimensional Se as a binder-free cathode for Li-Se battery. *Electrochimica Acta*, **2016**, 190, 258-263	6.7	23
76	Preparation of a phosphopolyoxomolybdate P2Mo18O626−doped polypyrrole modified electrode and its catalytic properties. *Journal of Electroanalytical Chemistry*, **2004**, 566, 63-71	4.1	23
75	Stabilization of Inorganic CsPb0.5Sn0.5I2Br Perovskite Compounds by Antioxidant Tea Polyphenol. *Solar Rrl*, **2020**, 4, 1900457	7.1	23
74	Phosphor coated NiO-based planar inverted organometallic halide perovskite solar cells with enhanced efficiency and stability. *Applied Physics Letters*, **2016**, 109, 171103	3.4	22
73	Core-Shell Structured NiCo2O4@FeOOH Nanowire Arrays as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. *ChemCatChem*, **2018**, 10, 4119-4125	5.2	22
72	Near field enhanced photocurrent generation in p-type dye-sensitized solar cells. *Scientific Reports*, **2014**, 4, 3961	4.9	21
71	Interconnected SnO2 Nanocrystals Electron Transport Layer for Highly Efficient Flexible Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 1900229	7.1	21
70	Investigation of dye regeneration kinetics in sensitized solar cells by scanning electrochemical microscopy. *ChemPhysChem*, **2014**, 15, 1182-9	3.2	20
69	Effective Magnetic Field Regulation of the Radical Pair Spin States in Electrocatalytic CO Reduction. *Journal of Physical Chemistry Letters*, **2020**, 11, 48-53	6.4	20
68	Hierarchical CuBi2O4 microspheres as lithium-ion battery anodes with superior high-temperature electrochemical performance. *RSC Advances*, **2017**, 7, 13250-13256	3.7	19
67	Temperature Dependent Characteristics of Perovskite Solar Cells. *ChemistrySelect*, **2017**, 2, 4469-4477	1.8	19
66	Hierarchical WO 3 nanoflakes architecture with enhanced photoelectrochemical activity. *Electrochimica Acta*, **2017**, 225, 473-481	6.7	19
65	Electrochemically Deposited CoS Films as Counter Electrodes for Efficient Quantum Dot-Sensitized Solar Cells. *Journal of the Electrochemical Society*, **2013**, 160, H624-H629	3.9	19

64	Cation-Assisted Restraint of a Wide Quantum Well and Interfacial Charge Accumulation in Two-Dimensional Perovskites. *ACS Energy Letters*, **2018**, 3, 1815-1823	20.1	19
63	High-rate and stable iron phosphide nanorods anode for sodium-ion battery. *Electrochimica Acta*, **2019**, 314, 142-150	6.7	18
62	Large active layer thickness toleration of high-efficiency small molecule solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 22274-22279	13	18
61	Hydrogen peroxide biosensor based on microperoxidase-11 immobilized on flexible MWCNTs-BC nanocomposite film. *Talanta*, **2015**, 131, 243-8	6.2	18
60	MoO3 nanobelts for high-performance asymmetric supercapacitor. *Journal of Materials Science*, **2019**, 54, 13685-13693	4.3	18
59	Investigation of regeneration kinetics in quantum-dots-sensitized solar cells with scanning electrochemical microscopy. *ACS Applied Materials & Interfaces*, **2014**, 6, 20913-8	9.5	18
58	Regulating the electronic configuration of ruthenium nanoparticles via coupling cobalt phosphide for hydrogen evolution in alkaline media. *Materials Today Physics*, **2020**, 12, 100182	8	17
57	Investigation on regeneration kinetics at perovskite/oxide interface with scanning electrochemical microscopy. *Journal of Materials Chemistry A*, **2015**, 3, 9216-9222	13	17
56	Mn3O4/Carbon Nanotube Nanocomposites as Electrocatalysts for the Oxygen Reduction Reaction in Alkaline Solution. *ChemElectroChem*, **2014**, 1, 1531-1536	4.3	16
55	Electrochemical behavior and assembly of tetranuclear Dawson-derived sandwich compound [Cd4(H2O)2(As2W15O56)2]16□on 4-aminobenzoic acid modified glassy carbon electrode. *Analytica Chimica Acta*, **2005**, 534, 343-351	6.6	16
54	Novel donor-acceptor-donor structured small molecular hole transporting materials for planar perovskite solar cells. *Journal of Energy Chemistry*, **2019**, 32, 85-92	12	15
53	Stability Issue of Perovskite Solar Cells under Real-World Operating Conditions. *Energy Technology*, **2020**, 8, 1900744	3.5	15
52	Bouquet-Like NiCo2O4@CoNi2S4 Arrays for High-Performance Pseudocapacitors. *ChemElectroChem*, **2017**, 4, 607-612	4.3	14
51	Ultrafast synthesis of Te nanorods as cathode materials for lithium-tellurium batteries. *Journal of Power Sources*, **2017**, 371, 48-54	8.9	14
50	Sea coral-like NiCo2O4@(Ni, Co)OOH heterojunctions for enhancing overall water-splitting. *Catalysis Science and Technology*, **2018**, 8, 4151-4158	5.5	14
49	A cyclopenta[1,2-b:5,4-b□dithiophene-porphyrin conjugate for mesoscopic solar cells: a D-□D-A approach. *Physical Chemistry Chemical Physics*, **2014**, 16, 24755-62	3.6	14
48	Preparation of hybrid films containing gold nanoparticles and cobalt porphyrin with flexible electrochemical properties. *Thin Solid Films*, **2013**, 545, 327-331	2.2	14
47	Phosphate modified N/Si co-doped rutile TiO 2 nanorods for photoelectrochemical water oxidation. *Applied Surface Science*, **2017**, 391, 288-294	6.7	13

46	F4TCNQ-doped DEPT-SC as hole transporting material for stable perovskite solar cells. *Organic Electronics*, **2016**, 35, 171-175	3.5	13
45	Alkyl-thiophene Functionalized D-π-A Porphyrins for Mesoscopic Solar Cells. *Electrochimica Acta*, **2015**, 179, 187-196	6.7	12
44	Visualized acid–base discoloration and optoelectronic investigations of azines and azomethines having double 4-[N,N-di(4-methoxyphenyl)amino]phenyl terminals. *Journal of Materials Chemistry C*, **2015**, 3, 7748-7755	7.1	12
43	Diketopyrrolopyrrole based D-π-A-π-D type small organic molecules as hole transporting materials for perovskite solar cells. *Journal of Energy Chemistry*, **2018**, 27, 1175-1182	12	12
42	Effect of Hole Transport Layer in Planar Inverted Perovskite Solar Cells. *Chemistry Letters*, **2016**, 45, 89-91	1.7	12
41	Investigation of the regeneration kinetics of organic dyes with pyridine ring anchoring groups by scanning electrochemical microscopy. *RSC Advances*, **2014**, 4, 51374-51380	3.7	10
40	Highly Efficient Hydrogen Production Using a Reformed Electrolysis System Driven by a Single Perovskite Solar Cell. *ChemSusChem*, **2019**, 12, 434-440	8.3	9
39	AgBi3I10 rudorffite for photovoltaic application. *Solar Energy*, **2020**, 206, 436-442	6.8	8
38	Generating Huge Magnetocurrent by Using Spin-Dependent Dehydrogenation Based on Electrochemical System. *Journal of Physical Chemistry C*, **2017**, 121, 28420-28424	3.8	8
37	INVESTIGATION OF DYE-REGENERATION KINETICS AT DYE-SENSITIZED p-TYPE CuCrO2 FILM/ELECTROLYTES INTERFACE WITH SCANNING ELECTROCHEMICAL MICROSCOPY. *Nano*, **2014**, 09, 1440008	1.1	8
36	Interface engineering for high-efficiency perovskite solar cells. *Journal of Applied Physics*, **2021**, 129, 130904	2.5	8
35	Fully Inorganic CsSnI3 Mesoporous Perovskite Solar Cells with High Efficiency and Stability via Coadditive Engineering. *Solar Rrl*, **2021**, 5, 2100069	7.1	8
34	Ultrafine Pt nanoparticle decoration with CoP as highly active electrocatalyst for alcohol oxidation. *RSC Advances*, **2016**, 6, 100437-100442	3.7	8
33	Stable and efficient full-printable solar cells using inorganic metal oxide framework and inorganic perovskites. *Applied Materials Today*, **2020**, 20, 100644	6.6	7
32	Large Magneto-Current Effect in the Electrochemical Detection of Oxalate in Aqueous Solution. *Journal of Physical Chemistry C*, **2018**, 122, 19880-19885	3.8	7
31	Graphene supported platinum nanoparticles as catalyst for oxygen reduction reaction. *Chemical Research in Chinese Universities*, **2015**, 31, 1007-1011	2.2	7
30	Effect of the molecular weight of poly(3-hexylthiophene) on the performance of solid-state dye-sensitized solar cells. *RSC Advances*, **2013**, 3, 14037	3.7	7
29	Nanostructured NiSeS on Porous-Carbon Skeletons as Highly Efficient Electrocatalyst for Hydrogen Evolution in Acidic Medium. *Inorganic Chemistry*, **2020**, 59, 6018-6025	5.1	7

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