X-L Zhang

List of Publications by Year
in descending order

181 papers	13,282 citations	31902 53 h-index	24179 110 g-index
181 all docs	181 docs citations	181 times ranked	14986 citing authors

#	Article	IF	Citations
1	The incorporation of cocatalyst cobalt sulfide into graphitic carbon nitride: Boosted photocatalytic hydrogen evolution performance and mechanism exploration. Nano Materials Science, 2023, 5, 202-209.	3.9	11
2	Heterostructuring noble-metal-free 1T' phase MoS2 with g-C3N4 hollow nanocages to improve the photocatalytic H2 evolution activity. Green Energy and Environment, 2023, 8, 864-873.	4.7	22
3	Organic solar cells based on small molecule donor and polymer acceptor. Chinese Chemical Letters, 2022, 33, 123-132.	4.8	20
4	Theoretical study of K3Sb/graphene heterostructure for electrochemical nitrogen reduction reaction. Frontiers of Physics, 2022, 17, 1.	2.4	4
5	A cation exchange strategy to construct Rod-shell CdS/Cu2S nanostructures for broad spectrum photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2022, 608, 158-163.	5.0	37
6	Phosphorous-doped 1T-MoS2 decorated nitrogen-doped g-C3N4 nanosheets for enhanced photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2022, 605, 320-329.	5.0	81
7	Theoretical investigation of novel p-block metal-based electrocatalysts for nitrogen reduction reaction. Applied Surface Science, 2022, 572, 151441.	3.1	7
8	Wasteâ€yeast biomass as nitrogen/phosphorus sources and carbon template: Environmentâ€friendly synthesis of N,Pâ€Mo2C nanoparticles on porous carbon matrix for efficient hydrogen evolution. Chinese Chemical Letters, 2022, 33, 3231-3235.	4.8	22
9	The fabrication of graphitic carbon nitride hollow nanocages with semi-metal 1T' phase molybdenum disulfide as co-catalysts for excellent photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2022, 608, 1229-1237.	5.0	26
10	Recent progress in inorganic tin perovskite solar cells. Materials Today Energy, 2022, 23, 100891.	2.5	16
11	Flexible and waterproof nitrogen-doped carbon nanotube arrays on cotton-derived carbon fiber for electromagnetic wave absorption and electric-thermal conversion. Chemical Engineering Journal, 2022, 433, 133794.	6.6	52
12	Trace surface fluorination and tungsten-intercalation cooperated dual modification induced photo-activity enhancement of titanium dioxide. Journal of Industrial and Engineering Chemistry, 2022, 108, 195-202.	2.9	0
13	Atomically dispersed cobalt anchored on N-doped graphene aerogels for efficient electromagnetic wave absorption with an ultralow filler ratio. Applied Physics Reviews, 2022, 9, .	5.5	86
14	One-dimensional screw-like MoS2 with oxygen partially replacing sulfur as an electrocatalyst for the N2 reduction reaction. Chemical Engineering Journal, 2022, 433, 134504.	6.6	32
15	Interface engineering of metallic nickel nanoparticles/semiconductive nickel molybdate nanowires for efficiently electrocatalytic water splitting. Materials Today Nano, 2022, 18, 100176.	2.3	9
16	ZnO@Ti3C2 MXene interfacial Schottky junction for boosting spatial charge separation in photocatalytic degradation. Journal of Alloys and Compounds, 2022, 905, 164025.	2.8	51
17	Over 8% efficient CsSnI₃-based mesoporous perovskite solar cells enabled by two-step thermal annealing and surface cationic coordination dual treatment. Journal of Materials Chemistry A, 2022, 10, 3642-3649.	5.2	35
18	Underfocus Laser Induced Ni Nanoparticles Embedded Metallic MoN Microrods as Patterned Electrode for Efficient Overall Water Splitting. Advanced Science, 2022, 9, e2105869.	5.6	43

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19	Highly sensitive photomultiplication type polymer photodetectors by manipulating interfacial trapped electron density. Chemical Engineering Journal, 2022, 435, 134973.	6.6	55
20	Titanium carbide MXenes coupled with cadmium sulfide nanosheets as two-dimensional/two-dimensional heterostructures for photocatalytic hydrogen production. Journal of Colloid and Interface Science, 2022, 613, 644-651.	5.0	53
21	Recent progress in all-small-molecule organic photovoltaics. Journal of Materials Chemistry A, 2022, 10, 6291-6329.	5.2	58
22	Defective 2D silicon phosphide monolayers for the nitrogen reduction reaction: a DFT study. Nanoscale, 2022, 14, 5782-5793.	2.8	10
23	A stable self-powered ultraviolet photodetector using CH₃NH₃PbCl₃ with weak-light detection capacity under working conditions. Journal of Materials Chemistry C, 2022, 10, 7147-7153.	2.7	8
24	Enabling efficient electrocatalytic conversion of N2 to NH3 by Ti3C2 MXene loaded with semi-metallic 1Tâ€²-MoS2 nanosheets. Applied Catalysis B: Environmental, 2022, 310, 121277.	10.8	54
25	Metal-organic framework interface engineering for highly efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2022, 619, 148-157.	5.0	16
26	Structure engineering of 1T/2H multiphase MoS2 via oxygen incorporation over 2D layered porous g-C3N4 for remarkably enhanced photocatalytic hydrogen evolution. Materials Today Nano, 2022, 18, 100204.	2.3	19
27	Boosted Efficiency Over 18.1% of Polymer Solar Cells by Employing Large Extinction Coefficients Material as the Third Component. Macromolecular Rapid Communications, 2022, 43, e2200345.	2.0	42
28	Layered optimization strategy enables over 17.8% efficiency of layer-by-layer organic photovoltaics. Chemical Engineering Journal, 2022, 442, 136368.	6.6	50
29	Synergistic Enhancement of Electrocatalytic Nitrogen Reduction over Few-Layer MoSe₂-Decorated Ti₃C₂T_x MXene. ACS Catalysis, 2022, 12, 6385-6393.	5.5	33
30	Heterostructuring 2D TiO2 nanosheets in situ grown on Ti3C2T MXene to improve the electrocatalytic nitrogen reduction. Chinese Journal of Catalysis, 2022, 43, 1937-1944.	6.9	25
31	Ionic liquid dopant for hole transporting layer towards efficient LiTFSI-free perovskite solar cells. Chemical Physics Letters, 2022, 801, 139713.	1.2	3
32	Ti3C2 MXene coupled with CdS nanoflowers as 2D/3D heterostructures for enhanced photocatalytic hydrogen production activity. International Journal of Hydrogen Energy, 2022, 47, 22045-22053.	3.8	37
33	S-scheme heterostructure based on ultrathin 2D CdS coated W18O49 nanosheets-assembled network for highly-efficient photocatalytic H2 evolution. Journal of Alloys and Compounds, 2022, 918, 165652.	2.8	17
34	Modulation of the Fluorination Site on Side-Chain Thiophene Improved Efficiency in All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 33234-33241.	4.0	12
35	Ruthenium nanoclusters anchored on cobalt phosphide hollow microspheres by green phosphating process for full water splitting in acidic electrolyte. Chinese Chemical Letters, 2021, 32, 511-515.	4.8	46
36	2D Materials as Electron Transport Layer for Lowâ€Temperature Solutionâ€Processed Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000566.	3.1	12

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37	The fabrication of 1D/2D CdS nanorod@Ti3C2 MXene composites for good photocatalytic activity of hydrogen generation and ammonia synthesis. Chemical Engineering Journal, 2021, 406, 127177.	6.6	187
38	Laser patterned and bifunctional Ni@N-doped carbon nanotubes as electrocatalyst and photothermal conversion layer for water splitting driven by thermoelectric device. Applied Catalysis B: Environmental, 2021, 283, 119647.	10.8	39
39	Au nanorods decorated TiO2 nanobelts with enhanced full solar spectrum photocatalytic antibacterial activity and the sterilization file cabinet application. Chinese Chemical Letters, 2021, 32, 1523-1526.	4.8	76
40	Non-thermal radiation heating synthesis of nanomaterials. Science Bulletin, 2021, 66, 386-406.	4.3	29
41	Is the strain responsible to instability of inorganic perovskites and their photovoltaic devices?. Materials Today Energy, 2021, 19, 100601.	2.5	17
42	Double transition metal atoms anchored on Graphdiyne as promising catalyst for electrochemical nitrogen reduction reaction. Journal of Materials Science and Technology, 2021, 77, 244-251.	5.6	63
43	Oxygen-induced defect-healing and photo-brightening of halide perovskite semiconductors: science and application. Journal of Materials Chemistry A, 2021, 9, 4379-4414.	5.2	15
44	Fe atoms anchored on defective nitrogen doped hollow carbon spheres as efficient electrocatalysts for oxygen reduction reaction. Nano Research, 2021, 14, 1069-1077.	5.8	71
45	14.46% Efficiency small molecule organic photovoltaics enabled by the well trade-off between phase separation and photon harvesting. Journal of Energy Chemistry, 2021, 57, 610-617.	7.1	81
46	Highly sensitive all-polymer photodetectors with ultraviolet-visible to near-infrared photo-detection and their application as an optical switch. Journal of Materials Chemistry C, 2021, 9, 5349-5355.	2.7	45
47	p-Block element-doped silicon nanowires for nitrogen reduction reaction: a DFT study. Nanoscale, 2021, 13, 14935-14944.	2.8	12
48	Oxygen vacancies for promoting the electrochemical nitrogen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 6694-6709.	5.2	71
49	Semitransparent organic solar cells exhibiting 13.02% efficiency and 20.2% average visible transmittance. Journal of Materials Chemistry A, 2021, 9, 6797-6804.	5.2	106
50	Laser-assisted synthesis of cobalt@N-doped carbon nanotubes decorated channels and pillars of wafer-sized silicon as highly efficient three-dimensional solar evaporator. Chinese Chemical Letters, 2021, 32, 3090-3094.	4.8	21
51	Minimizing energy loss in two-dimensional tin halide perovskite solar cellsâ€”A perspective. APL Materials, 2021, 9, .	2.2	13
52	The metallic 1T-WS2 as cocatalysts for promoting photocatalytic N2 fixation performance of Bi5O7Br nanosheets. Chinese Chemical Letters, 2021, 32, 3501-3504.	4.8	32
53	Simple-Structured Blue Thermally Activated Delayed Fluorescence Emitter for Solution-Processed Organic Light-Emitting Diodes with External Quantum Efficiency of over 20%. ACS Applied Materials & Interfaces, 2021, 13, 12305-12312.	4.0	27
54	Confined Synthesis: From Layered Titanate to Highly Efficient and Durable Mesoporous Cu/TiO₂ Hydrogen Evolution Photocatalysts. ACS Applied Energy Materials, 2021, 4, 4050-4058.	2.5	8

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55	Recent progress of organic photovoltaics for indoor energy harvesting. Nano Energy, 2021, 82, 105770.	8.2	128
56	Understanding the Effect of Sequential Deposition Processing for High-Efficient Organic Photovoltaics to Harvest Sunlight and Artificial Light. ACS Applied Materials & Interfaces, 2021, 13, 20405-20416.	4.0	19
57	Interface engineering for high-efficiency perovskite solar cells. Journal of Applied Physics, 2021, 129, .	1.1	38
58	Fully Inorganic CsSnI₃ Mesoporous Perovskite Solar Cells with High Efficiency and Stability via Coadditive Engineering. Solar Rrl, 2021, 5, 2100069.	3.1	29
59	Computational Investigation of MgH₂/NbOx for Hydrogen Storage. Journal of Physical Chemistry C, 2021, 125, 8862-8868.	1.5	9
60	Ink Engineering for Blade Coating FA-Dominated Perovskites in Ambient Air for Efficient Solar Cells and Modules. ACS Applied Materials & Interfaces, 2021, 13, 18724-18732.	4.0	20
61	Solvent Annealing Enables 15.39% Efficiency Allâ€Smallâ€Molecule Solar Cells through Improved Molecule Interconnection and Reduced Nonâ€Radiative Loss. Advanced Energy Materials, 2021, 11, 2100800.	10.2	86
62	High-efficiency separation and transfer of photo-induced charge carrier in graphene/TiO2 via heterostructure in magnetic field. Journal of Alloys and Compounds, 2021, 862, 158283.	2.8	15
63	Crumple Durable Ultraflexible Organic Solar Cells with an Excellent Powerâ€perâ€Weight Performance. Advanced Functional Materials, 2021, 31, 2102694.	7.8	78
64	Lead halideâ€“templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. Science, 2021, 372, 1327-1332.	6.0	351
65	Over 16% Efficiency of Thickâ€Film Organic Photovoltaics with Symmetric and Asymmetric Nonâ€Fullerene Materials as Alloyed Acceptor. Solar Rrl, 2021, 5, 2100365.	3.1	13
66	N-doped carbon nanotube arrays on reduced graphene oxide as multifunctional materials for energy devices and absorption of electromagnetic wave. Carbon, 2021, 177, 216-225.	5.4	88
67	Efficient and Stable Large-Area Perovskite Solar Cells with Inorganic Perovskite/Carbon Quantum Dot-Graded Heterojunction. Research, 2021, 2021, 9845067.	2.8	9
68	Facile preparation of metallic 1T phase molybdenum selenide as cocatalyst coupled with graphitic carbon nitride for enhanced photocatalytic H2 production. Journal of Colloid and Interface Science, 2021, 598, 172-180.	5.0	68
69	Ti₃C₂T_x/PEDOT:PSS Composite Interface Enables over 17% Efficiency Non-fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 45789-45797.	4.0	19
70	Partially contacted NixSy@N, S-codoped carbon yolk-shelled structures for efficient microwave absorption. Carbon, 2021, 182, 276-286.	5.4	47
71	Co doped MoS2 as cocatalyst considerably improved photocatalytic hydrogen evolution of g-C3N4 in an alkalescent environment. Chemical Engineering Journal, 2021, 421, 130016.	6.6	127
72	Confined synthesis of 2D ultrathin ZnO/Co3O4 nanomeshes heterostructure for superior triethylamine detection at low temperature. Sensors and Actuators B: Chemical, 2021, 346, 130486.	4.0	55

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73	The effect of defects in tin-based perovskites and their photovoltaic devices. Materials Today Physics, 2021, 21, 100513.	2.9	17
74	Hierarchically three-dimensional structure assembled with yolk-shelled spheres-supported nitrogen-doped carbon nanotubes for electromagnetic wave absorption. Carbon, 2021, 185, 177-185.	5.4	31
75	A novel semi-metallic 1Tâ€²-MoReS3 co-catalyst. Chemical Engineering Journal, 2021, 425, 130525.	6.6	16
76	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. Nano Today, 2021, 41, 101289.	6.2	47
77	Multifunctional electrocatalyst of NiCo-NiCoP nanoparticles embedded into P-doped carbon nanotubes for Energy-Saving hydrogen production and upgraded conversion of formaldehyde. Chemical Engineering Journal, 2021, 426, 129214.	6.6	25
78	Nitrogen-functionalized carbon nanotube-supported bimetallic PtNi nanoparticles for hydrogen generation from hydrous hydrazine. Chemical Communications, 2021, 57, 8324-8327.	2.2	15
79	Conductive CuCoâ€Based Bimetal Organic Framework for Efficient Hydrogen Evolution. Advanced Materials, 2021, 33, e2106781.	11.1	116
80	Controlling Quantum-Well Width Distribution and Crystal Orientation in Two-Dimensional Tin Halide Perovskites via a Strong Interlayer Electrostatic Interaction. ACS Applied Materials & Interfaces, 2021, 13, 49907-49915.	4.0	13
81	Enhanced photomultiplication of organic photodetectors via phosphorescent material incorporation. Journal of Materials Chemistry C, 2021, 9, 16918-16924.	2.7	2
82	Rational Design of Graphene-Supported Single-Atom Catalysts for Electroreduction of Nitrogen. Inorganic Chemistry, 2021, 60, 18314-18324.	1.9	24
83	Mechanistic Insights into Direct Methane Oxidation to Methanol on Single-Atom Transition-Metal-Modified Graphyne. ACS Applied Nano Materials, 2021, 4, 12006-12016.	2.4	17
84	Over 16.7% efficiency of ternary organic photovoltaics by employing extra PC71BM as morphology regulator. Science China Chemistry, 2020, 63, 83-91.	4.2	160
85	Photomultiplication Type Broad Response Organic Photodetectors with One Absorber Layer and One Multiplication Layer. Journal of Physical Chemistry Letters, 2020, 11, 366-373.	2.1	121
86	Photomultiplication type organic photodetectors based on electron tunneling injection. Nanoscale, 2020, 12, 1091-1099.	2.8	99
87	Efficient ternary organic photovoltaics with two polymer donors by minimizing energy loss. Journal of Materials Chemistry A, 2020, 8, 1265-1272.	5.2	84
88	Empowering hydrogen storage performance of MgH2 by nanoengineering and nanocatalysis. Materials Today Nano, 2020, 9, 100064.	2.3	153
89	Two compatible polymer donors contribute synergistically for ternary organic solar cells with 17.53% efficiency. Energy and Environmental Science, 2020, 13, 5039-5047.	15.6	189
90	Recent Progress on Broadband Organic Photodetectors and their Applications. Laser and Photonics Reviews, 2020, 14, 2000262.	4.4	178

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91	Active facet regulation of highly aligned molybdenum carbide porous octahedrons via crystal engineering for hydrogen evolution reaction. Nano Energy, 2020, 77, 105056.	8.2	41
92	Trace-Level Fluorination of Mesoporous TiO₂ Improves Photocatalytic and Pb(II) Adsorbent Performances. Inorganic Chemistry, 2020, 59, 17631-17637.	1.9	9
93	In-situ growth of graphene on carbon nanofiber from lignin. Carbon, 2020, 169, 446-454.	5.4	30
94	A Critical Review on Efficient Thickâ€Film Organic Solar Cells. Solar Rrl, 2020, 4, 2000364.	3.1	80
95	High-Efficiency Thermal-Annealing-Free Organic Solar Cells Based on an Asymmetric Acceptor with Improved Thermal and Air Stability. ACS Applied Materials & Interfaces, 2020, 12, 57271-57280.	4.0	44
96	Controlled growth and ion intercalation mechanism of monocrystalline niobium pentoxide nanotubes for advanced rechargeable aluminum-ion batteries. Nanoscale, 2020, 12, 12531-12540.	2.8	17
97	Stable and efficient full-printable solar cells using inorganic metal oxide framework and inorganic perovskites. Applied Materials Today, 2020, 20, 100644.	2.3	10
98	Research progress of nanocellulose for electrochemical energy storage: A review. Journal of Energy Chemistry, 2020, 51, 342-361.	7.1	67
99	Structure engineering of hierarchical layered perovskite interface for efficient and stable wide bandgap photovoltaics. Nano Energy, 2020, 75, 104917.	8.2	44
100	Elemental red phosphorus-based materials for photocatalytic water purification and hydrogen production. Nanoscale, 2020, 12, 13297-13310.	2.8	86
101	Broadband organic photodetectors exhibiting photomultiplication with a narrow bandgap non-fullerene acceptor as an electron trap. Journal of Materials Chemistry C, 2020, 8, 9854-9860.	2.7	7
102	Controllable growth and flexible optoelectronic devices of regularly-assembled Bi2S3 semiconductor nanowire bifurcated junctions and crosslinked networks. Nano Research, 2020, 13, 2226-2232.	5.8	16
103	Theoretical Investigation of Single and Double Transition Metals Anchored on Graphyne Monolayer for Nitrogen Reduction Reaction. Journal of Physical Chemistry C, 2020, 124, 15295-15301.	1.5	79
104	AgBi3I10 rudorffite for photovoltaic application. Solar Energy, 2020, 206, 436-442.	2.9	21
105	Nitrogen and Sulfur Vacancies in Carbon Shell to Tune Charge Distribution of Co₆Ni₃S₈ Core and Boost Sodium Storage. Advanced Energy Materials, 2020, 10, 1904147.	10.2	80
106	Controlling layered Ruddlesdenâ€“Popper perovskites via solvent additives. Nanoscale, 2020, 12, 7330-7338.	2.8	9
107	Over 15.7% Efficiency of Ternary Organic Solar Cells by Employing Two Compatible Acceptors with Similar LUMO Levels. Small, 2020, 16, e2000441.	5.2	59
108	Achieving 17.4% Efficiency of Ternary Organic Photovoltaics with Two Wellâ€Compatible Nonfullerene Acceptors for Minimizing Energy Loss. Advanced Energy Materials, 2020, 10, 2001404.	10.2	164

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109	Phosphorusâ€Doped Iron Nitride Nanoparticles Encapsulated by Nitrogenâ€Doped Carbon Nanosheets on Iron Foam In Situ Derived from Saccharomycetes Cerevisiae for Electrocatalytic Overall Water Splitting. Small, 2020, 16, e2001980.	5.2	34
110	A Universal Process: Self-Templated and Orientated Fabrication of XMoO₄ (X: Ni, Co, or Fe) Nanosheets on MoO₂ Nanoplates as Electrocatalysts for Efficient Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 33785-33794.	4.0	23
111	Stabilizing lithium metal anode by molecular beam epitaxy grown uniform and ultrathin bismuth film. Nano Energy, 2020, 76, 105068.	8.2	46
112	Highly efficient quaternary organic photovoltaics by optimizing photogenerated exciton distribution and active layer morphology. Nano Energy, 2020, 70, 104496.	8.2	82
113	Alloy-like ternary polymer solar cells with over 17.2% efficiency. Science Bulletin, 2020, 65, 538-545.	4.3	252
114	Over 14.5% efficiency and 71.6% fill factor of ternary organic solar cells with 300 nm thick active layers. Energy and Environmental Science, 2020, 13, 958-967.	15.6	198
115	Hierarchically hollow structured NiCo₂S₄@NiS for high-performance flexible hybrid supercapacitors. Nanoscale, 2020, 12, 4686-4694.	2.8	80
116	ZIF-67 derived hollow Ni-Co-Se nano-polyhedrons for flexible hybrid supercapacitors with remarkable electrochemical performances. Chinese Chemical Letters, 2020, 31, 2007-2012.	4.8	66
117	Nickel-cobalt double oxides with rich oxygen vacancies by B-doping for asymmetric supercapacitors with high energy densities. Applied Surface Science, 2020, 512, 145621.	3.1	31
118	Ultraviolet to near-infrared broadband organic photodetectors with photomultiplication. Organic Electronics, 2020, 83, 105739.	1.4	29
119	Two-step sequential blade-coating of high quality perovskite layers for efficient solar cells and modules. Journal of Materials Chemistry A, 2020, 8, 8447-8454.	5.2	57
120	How to fabricate efficient perovskite solar mini-modules in lab. Journal of Power Sources, 2020, 466, 228321.	4.0	21
121	Sn/Pb binary metal inorganic perovskite: a true material worthy of trust for efficient and stable photovoltaic application. Science Bulletin, 2020, 65, 1330-1333.	4.3	11
122	Single-Iron Supported on Defective Graphene as Efficient Catalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2020, 124, 13283-13290.	1.5	28
123	Advances in design engineering and merits of electron transporting layers in perovskite solar cells. Materials Horizons, 2020, 7, 2276-2291.	6.4	66
124	J71-based ternary organic photovoltaics exhibiting 13.65% efficiency. Sustainable Energy and Fuels, 2020, 4, 3979-3984.	2.5	10
125	NaYF₄:Yb,Er,Nd@NaYF₄:Nd Upconversion Nanocrystals Capped with Mn:TiO₂ for 808 nm NIR-Triggered Photocatalytic Applications. Journal of Physical Chemistry C, 2019, 123, 22959-22970.	1.5	45
126	Towards Improvement of Photovoltaic Performance of Aqueous Dye-sensitized Solar Cells by Tungsten-doped Mesoporous Nanobeads TiO2 Working Electrode. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 17-22.	0.4	6

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127	Benzotriazole-Based p-Type Polymers with Thieno[3,2-b]thiophene Ï€-Bridges and Fluorine Substituents To Realize High V_{OC}. ACS Applied Polymer Materials, 2019, 1, 906-913.	2.0	26
128	Oxygenâ€Vacancy Abundant Ultrafine Co₃O₄/Graphene Composites for Highâ€Rate Supercapacitor Electrodes. Advanced Science, 2018, 5, 1700659.	5.6	392
129	Enhanced performances of dye-sensitized solar cells based on Au-TiO 2 and Ag-TiO 2 plasmonic hybrid nanocomposites. Applied Surface Science, 2018, 430, 415-423.	3.1	84
130	Enhanced Photoelectrochemical Performances in Flexible Mesoscopic Solar Cells: An Effective Lightâ€Scattering Material. ChemPhotoChem, 2018, 2, 986-993.	1.5	5
131	Prompting Charge Injection in Aqueous Mesoscopic Photoelectrochemical Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
132	Effective Light Scattering Building Block for Enhanced Photoelectrochemical Performances of Flexible Solar Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
133	Prompting Mass Transfer in Solid-State Solar Cells Using Submicron Spherical Mesoporous Titanium Oxide Aggregates. ECS Meeting Abstracts, 2018, , .	0.0	0
134	Stable Hydrogen Generation from Copper/Titanium Oxide Heterogeneous Photocatalyst: A Confined Material Preparation Approach. ECS Meeting Abstracts, 2018, , .	0.0	0
135	High efficiency solid-state dye-sensitized solar cells using a cobalt(<scp>ii</scp>/<scp>iii</scp>) redox mediator. Journal of Materials Chemistry C, 2017, 5, 4875-4883.	2.7	14
136	Fabrication and photovoltaic performance of niobium doped TiO2 hierarchical microspheres with exposed {001} facets and high specific surface area. Applied Surface Science, 2017, 410, 241-248.	3.1	39
137	Pinecone biomass-derived hard carbon anodes for high-performance sodium-ion batteries. RSC Advances, 2017, 7, 41504-41511.	1.7	117
138	Open porous BiVO4 nanomaterials: Electronspinning fabrication and enhanced visible light photocatalytic activity. Materials Research Bulletin, 2016, 74, 258-264.	2.7	26
139	Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. Science, 2015, 347, 519-522.	6.0	4,156
140	An effective template-free synthesis strategy for hierarchical titanium oxide hybrids: tailoring the solvent environment. RSC Advances, 2015, 5, 41059-41065.	1.7	8
141	Hierarchical nanostructures of nickel-doped zinc oxide: Morphology controlled synthesis and enhanced visible-light photocatalytic activity. Journal of Alloys and Compounds, 2015, 618, 318-325.	2.8	44
142	Tailoring the conduction band of titanium oxide by doping tungsten for efficient electron injection in a sensitized photoanode. Nanoscale, 2014, 6, 3875-3880.	2.8	28
143	TiO₂-supported copper nanoparticles prepared via ion exchange for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2014, 2, 6432-6438.	5.2	92
144	Prompting electron transport in mesoporous semiconductor electrode by simple film compression. International Journal of Nanotechnology, 2014, 11, 1006.	0.1	0

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145	An over 10% enhancement of dye-sensitized solar cell efficiency by tuning nanoparticle packing. RSC Advances, 2013, 3, 17003.	1.7	10
146	A novel carbonâ€“PEDOT composite counter electrode for monolithic dye-sensitized solar cells. Journal Physics D: Applied Physics, 2013, 46, 024007.	1.3	13
147	Crystalline TiO₂ Nanorod Aggregates: Templateâ€Free Fabrication and Efficient Light Harvesting in Dyeâ€Sensitized Solar Cell Applications. Particle and Particle Systems Characterization, 2013, 30, 754-758.	1.2	10
148	CuZn Dendritic Alloys: Their Template-Free Electrochemical Preparation and Morphology-Dependent Wettability. Journal of Nanoscience and Nanotechnology, 2013, 13, 4247-4251.	0.9	0
149	Sensitization of nickel oxide: improved carrier lifetime and charge collection by tuning nanoscale crystallinity. Chemical Communications, 2012, 48, 9885.	2.2	60
150	Charge transport in photocathodes based on the sensitization of NiO nanorods. Journal of Materials Chemistry, 2012, 22, 7005.	6.7	42
151	An alternative flexible electrode for dye-sensitized solar cells. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	10
152	Preparation and application of magnetic cobalt/SiO2 core/shell nanospheres. Materials Letters, 2012, 66, 285-288.	1.3	3
153	Surface modifications of CdS/CdSe co-sensitized TiO2 photoelectrodes for solid-state quantum-dot-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 17534.	6.7	62
154	Enhanced open-circuit voltage of p-type DSC with highly crystalline NiO nanoparticles. Chemical Communications, 2011, 47, 4808.	2.2	104
155	Tunable electrochemical preparation of cobalt micro/nanostructures and their morphology-dependent wettability property. Electrochimica Acta, 2011, 58, 699-706.	2.6	45
156	Preparation of three-dimensional leaflike cobalt microcrystals and decoration of their surface with silver nanoparticles. Journal of Nanoparticle Research, 2011, 13, 3843-3852.	0.8	4
157	Effect of Mesoporous TiO2 Bead Diameter in Working Electrodes on the Efficiency of Dye-Sensitized Solar Cells. ChemSusChem, 2011, 4, 1498-1503.	3.6	40
158	Dualâ€Function Scattering Layer of Submicrometerâ€Sized Mesoporous TiO₂ Beads for Highâ€Efficiency Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 1301-1305.	7.8	385
159	Dyeâ€Sensitized Backâ€Contact Solar Cells. Advanced Materials, 2010, 22, 4270-4274.	11.1	34
160	Morphological Transformation of Co(OH)₂ Microspheres from Solid to Flowerlike Hollow Coreâ€“Shell Structures. Chemistry - A European Journal, 2009, 15, 1886-1892.	1.7	44
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