

# Wei Zhou

## List of Publications by Year in descending order

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271  
papers

19,911  
citations

8755

75  
h-index

14208

128  
g-index

275  
all docs

275  
docs citations

275  
times ranked

19389  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered Mesoporous Black TiO <sub>2</sub> as Highly Efficient Hydrogen Evolution Photocatalyst. Journal of the American Chemical Society, 2014, 136, 9280-9283.	13.7	878
2	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. Advanced Science, 2017, 4, 1600371.	11.2	594
3	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	14.9	583
4	Surface tuning for oxide-based nanomaterials as efficient photocatalysts. Chemical Society Reviews, 2013, 42, 9509.	38.1	564
5	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. Science Advances, 2018, 4, eaao6657.	10.3	460
6	Recent advances in floating TiO <sub>2</sub> -based photocatalysts for environmental application. Applied Catalysis B: Environmental, 2018, 225, 452-467.	20.2	443
7	Well-Ordered Large-Pore Mesoporous Anatase TiO <sub>2</sub> with Remarkably High Thermal Stability and Improved Crystallinity: Preparation, Characterization, and Photocatalytic Performance. Advanced Functional Materials, 2011, 21, 1922-1930.	14.9	431
8	Facile solvothermal synthesis of hierarchical flower-like Bi <sub>2</sub> MoO <sub>6</sub> hollow spheres as high performance visible-light driven photocatalysts. Journal of Materials Chemistry, 2011, 21, 887-892.	6.7	427
9	Synthesis of Particulate Hierarchical Tandem Heterojunctions toward Optimized Photocatalytic Hydrogen Production. Advanced Materials, 2018, 30, e1804282.	21.0	411
10	P-doped tubular g-C <sub>3</sub> N <sub>4</sub> with surface carbon defects: Universal synthesis and enhanced visible-light photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2017, 218, 664-671.	20.2	396
11	Surface Modulation of Hierarchical MoS <sub>2</sub> Nanosheets by Ni Single Atoms for Enhanced Electrocatalytic Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1807086.	14.9	314
12	Fabrication of 3D flower-like black N-TiO <sub>2</sub> -x@MoS <sub>2</sub> for unprecedented-high visible-light-driven photocatalytic performance. Applied Catalysis B: Environmental, 2017, 201, 119-127.	20.2	310
13	Porous Graphitic Carbon Nanosheets Derived from Cornstalk Biomass for Advanced Supercapacitors. ChemSusChem, 2013, 6, 880-889.	6.8	257
14	3D hierarchical flower-like TiO <sub>2</sub> nanostructure: morphology control and its photocatalytic property. CrystEngComm, 2011, 13, 2994.	2.6	237
15	Black TiO <sub>2</sub> nanobelts/g-C <sub>3</sub> N <sub>4</sub> nanosheets Laminated Heterojunctions with Efficient Visible-Light-Driven Photocatalytic Performance. Scientific Reports, 2017, 7, 41978.	3.3	211
16	Facile strategy for controllable synthesis of stable mesoporous black TiO <sub>2</sub> hollow spheres with efficient solar-driven photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 7495-7502.	10.3	198
17	Superior Photocatalytic H <sub>2</sub> Production with Cocatalytic Co/Ni Species Anchored on Sulfide Semiconductor. Advanced Materials, 2017, 29, 1703258.	21.0	188
18	Defects-engineering of magnetic $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> ultrathin nanosheets/mesoporous black TiO <sub>2</sub> hollow sphere heterojunctions for efficient charge separation and the solar-driven photocatalytic mechanism of tetracycline degradation. Applied Catalysis B: Environmental, 2019, 240, 319-328.	20.2	188

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19	Recent progress in defective TiO <sub>2</sub> photocatalysts for energy and environmental applications. Renewable and Sustainable Energy Reviews, 2022, 156, 111980.	16.4	179
20	Facile preparation of porous NiTiO <sub>3</sub> nanorods with enhanced visible-light-driven photocatalytic performance. Journal of Materials Chemistry, 2012, 22, 16471.	6.7	176
21	Cubic quantum dot/hexagonal microsphere ZnIn <sub>2</sub> S <sub>4</sub> heterophase junctions for exceptional visible-light-driven photocatalytic H <sub>2</sub> evolution. Journal of Materials Chemistry A, 2017, 5, 8451-8460.	10.3	176
22	Surface oxygen vacancy defect-promoted electron-hole separation for porous defective ZnO hexagonal plates and enhanced solar-driven photocatalytic performance. Chemical Engineering Journal, 2020, 379, 122295.	12.7	170
23	Defect-mediated electron-hole separation in semiconductor photocatalysis. Inorganic Chemistry Frontiers, 2018, 5, 1240-1254.	6.0	166
24	Fabrication of 3D Mesoporous Black TiO <sub>2</sub> /MoS <sub>2</sub> /TiO <sub>2</sub> Nanosheets for Visible-Light-Driven Photocatalysis. ChemSusChem, 2016, 9, 1118-1124.	6.8	164
25	Experimental and DFT insights of the Zn-doping effects on the visible-light photocatalytic water splitting and dye decomposition over Zn-doped BiOBr photocatalysts. Applied Catalysis B: Environmental, 2019, 243, 502-512.	20.2	164
26	Hollow MoSe <sub>2</sub> @Bi <sub>2</sub> S <sub>3</sub> /CdS Core-Shell Nanostructure as Dual Z-Scheme Heterojunctions with Enhanced Full Spectrum Photocatalytic-Photothermal Performance. Applied Catalysis B: Environmental, 2021, 281, 119482.	20.2	160
27	Ti <sub>3+</sub> -TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> mesostructured nanosheets heterojunctions as efficient visible-light-driven photocatalysts. Journal of Catalysis, 2018, 357, 90-99.	6.2	157
28	Ti <sup>3+</sup> Self-Doped Blue TiO <sub>2</sub> (B) Single-Crystalline Nanorods for Efficient Solar-Driven Photocatalytic Performance. ACS Applied Materials & Interfaces, 2016, 8, 26851-26859.	8.0	151
29	Mesoporous black TiO <sub>2</sub> -x/Ag nanospheres coupled with g-C <sub>3</sub> N <sub>4</sub> nanosheets as 3D/2D ternary heterojunctions visible light photocatalysts. Journal of Hazardous Materials, 2018, 343, 181-190.	12.4	147
30	Defect-rich and electron-rich mesoporous Ti-MOFs based NH <sub>2</sub> -MIL-125(Ti)@ZnIn <sub>2</sub> S <sub>4</sub> /CdS hierarchical tandem heterojunctions with improved charge separation and enhanced solar-driven photocatalytic performance. Applied Catalysis B: Environmental, 2020, 262, 118202.	20.2	143
31	Rutile TiO <sub>2</sub> nano-branched arrays on FTO for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 7008.	2.8	138
32	In Situ Growth of TiO <sub>2</sub> in Interlayers of Expanded Graphite for the Fabrication of TiO <sub>2</sub> @Graphene with Enhanced Photocatalytic Activity. Chemistry - A European Journal, 2011, 17, 8379-8387.	3.3	135
33	<i>In Situ</i> Carbon-Coated Yolk-Shell V <sub>2</sub> O <sub>3</sub> Microspheres for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 1595-1601.	8.0	132
34	Ti <sub>3+</sub> self-doped mesoporous black TiO <sub>2</sub> /SiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> sheets heterojunctions as remarkable visible-light-driven photocatalysts. Applied Catalysis B: Environmental, 2018, 226, 499-508.	20.2	131
35	Facile synthesis of novel 3D nanoflower-like Cu <sub>2</sub> O/multilayer graphene composites for room temperature NO <sub>x</sub> gas sensor application. Nanoscale, 2014, 6, 7369.	5.6	130
36	Facile Synthesis of High-Crystallinity Graphitic Carbon/Fe <sub>3</sub> C Nanocomposites As Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 3663-3670.	8.0	127

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37	Mesoporous TiO <sub>2</sub> : Preparation, Doping, and as a Composite for Photocatalysis. ChemCatChem, 2013, 5, 885-894.	3.7	126
38	Mesoporous black TiO <sub>2</sub> /MoS <sub>2</sub> /Cu <sub>2</sub> S hierarchical tandem heterojunctions toward optimized photothermal-photocatalytic fuel production. Chemical Engineering Journal, 2022, 427, 131830.	12.7	126
39	Oxygen-Doped MoS <sub>2</sub> Nanospheres/CdS Quantum Dots/g-C <sub>3</sub> N <sub>4</sub> Nanosheets Super-Architectures for Prolonged Charge Lifetime and Enhanced Visible-Light-Driven Photocatalytic Performance. ACS Applied Materials & Interfaces, 2019, 11, 7104-7111.	8.0	122
40	Recent advances in Ti <sup>3+</sup> self-doped nanostructured TiO <sub>2</sub> visible light photocatalysts for environmental and energy applications. Chemical Engineering Journal, 2020, 382, 123011.	12.7	122
41	Photodegradation of organic contamination in wastewaters by bonding TiO <sub>2</sub> /single-walled carbon nanotube composites with enhanced photocatalytic activity. Chemosphere, 2010, 81, 555-561.	8.2	117
42	Improved charge separation and surface activation via boron-doped layered polyhedron SrTiO <sub>3</sub> for co-catalyst free photocatalytic CO <sub>2</sub> conversion. Applied Catalysis B: Environmental, 2017, 219, 10-17.	20.2	113
43	WS <sub>2</sub> quantum dots/MoS <sub>2</sub> @WO <sub>3-x</sub> core-shell hierarchical dual Z-scheme tandem heterojunctions with wide-spectrum response and enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2019, 257, 117913.	20.2	113
44	Hierarchical composites of TiO <sub>2</sub> nanowire arrays on reduced graphene oxide nanosheets with enhanced photocatalytic hydrogen evolution performance. Journal of Materials Chemistry A, 2014, 2, 4366-4374.	10.3	112
45	High thermostable ordered mesoporous SiO <sub>2</sub> @TiO <sub>2</sub> coated circulating-bed biofilm reactor for unpredictable photocatalytic and biocatalytic performance. Applied Catalysis B: Environmental, 2016, 180, 521-529.	20.2	108
46	Mesoporous TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> : Bifunctional Composites for Effective Elimination of Arsenite Contamination through Simultaneous Photocatalytic Oxidation and Adsorption. Journal of Physical Chemistry C, 2008, 112, 19584-19589.	3.1	107
47	Hierarchical CuS hollow nanospheres and their structure-enhanced visible light photocatalytic properties. CrystEngComm, 2013, 15, 5144.	2.6	106
48	Hollow semiconductor photocatalysts for solar energy conversion. , 2022, 1, 100021.		106
49	Mesoporous black Ti <sup>3+</sup> /N-TiO <sub>2</sub> spheres for efficient visible-light-driven photocatalytic performance. Chemical Engineering Journal, 2017, 325, 199-207.	12.7	105
50	Hierarchical flake-like Bi <sub>2</sub> MoO <sub>6</sub> /TiO <sub>2</sub> bilayer films for visible-light-induced self-cleaning applications. Journal of Materials Chemistry A, 2013, 1, 6961.	10.3	102
51	Composites of small Ag clusters confined in the channels of well-ordered mesoporous anatase TiO <sub>2</sub> and their excellent solar-light-driven photocatalytic performance. Nano Research, 2014, 7, 731-742.	10.4	102
52	Self-floating amphiphilic black TiO <sub>2</sub> foams with 3D macro-mesoporous architectures as efficient solar-driven photocatalysts. Applied Catalysis B: Environmental, 2017, 206, 336-343.	20.2	102
53	Enhanced photocatalytic activity of S-doped TiO <sub>2</sub> @ZrO <sub>2</sub> nanoparticles under visible-light irradiation. Journal of Hazardous Materials, 2009, 166, 939-944.	12.4	101
54	Tetra-heteroatom self-doped carbon nanosheets derived from silkworm excrement for high-performance supercapacitors. Journal of Power Sources, 2018, 379, 74-83.	7.8	101

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55	Hollow flower-like polyhedral $\text{Fe}_2\text{O}_3/\text{Defective MoS}_2/\text{Ag}$ Z-scheme heterojunctions with enhanced photocatalytic-Fenton performance via surface plasmon resonance and photothermal effects. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118978.	20.2	101
56	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.	3.3	100
57	Synthesis of Defect-Rich Titanium Terephthalate with the Assistance of Acetic Acid for Room-Temperature Oxidative Desulfurization of Fuel Oil. <i>ACS Catalysis</i> , 2020, 10, 2384-2394.	11.2	100
58	Thin carbon layer coated $\text{Ti}_3\text{-TiO}_2$ nanocrystallites for visible-light driven photocatalysis. <i>Nanoscale</i> , 2015, 7, 5035-5045.	5.6	97
59	Growth of small sized $\text{CeO}_2$ particles in the interlayers of expanded graphite for high-performance room temperature $\text{NO}_x$ gas sensors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12742.	10.3	96
60	$\text{Ti}_3$ Self-Doped Black $\text{TiO}_2$ Nanotubes with Mesoporous Nanosheet Architecture as Efficient Solar-Driven Hydrogen Evolution Photocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6894-6901.	6.7	95
61	Alumina decorated $\text{TiO}_2$ nanotubes with ordered mesoporous walls as high sensitivity $\text{NO}_x$ gas sensors at room temperature. <i>Nanoscale</i> , 2013, 5, 8569.	5.6	94
62	In situ synthesis of a $\text{NiS}/\text{Ni}_3\text{S}_2$ nanorod composite array on Ni foil as a FTO-free counter electrode for dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 1623-1626.	5.6	94
63	Plasmon Ag nanoparticle/ $\text{Bi}_2\text{S}_3$ ultrathin nanobelt/oxygen-doped flower-like $\text{MoS}_2$ nanosphere ternary heterojunctions for promoting charge separation and enhancing solar-driven photothermal and photocatalytic performances. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 118947.	20.2	94
64	Facile Synthesis of Hierarchical Porous $\text{TiO}_2$ Ceramics with Enhanced Photocatalytic Performance for Micropolluted Pesticide Degradation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16653-16660.	8.0	93
65	Synergistic effect of surface plasmon resonance, $\text{Ti}^{3+}$ and oxygen vacancy defects on $\text{Ag}/\text{MoS}_2/\text{TiO}_2$ -x ternary heterojunctions with enhancing photothermal catalysis for low-temperature wastewater degradation. <i>Journal of Hazardous Materials</i> , 2019, 364, 117-124.	12.4	93
66	Magnetic $\text{Fe}_2\text{O}_3/\text{mesoporous black TiO}_2$ hollow sphere heterojunctions with wide-spectrum response and magnetic separation. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 235-242.	20.2	92
67	Facile Fabrication of Hierarchical $\text{TiO}_2$ Nanobelt/ $\text{ZnO}$ Nanorod Heterogeneous Nanostructure: An Efficient Photoanode for Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8314-8320.	8.0	91
68	Facet-dependent $\text{NiS}_2$ polyhedrons on counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 12863-12866.	4.1	90
69	Controlled synthesis of thorny anatase $\text{TiO}_2$ tubes for construction of $\text{Ag}^{\delta+}/\text{AgBr}/\text{TiO}_2$ composites as highly efficient simulated solar-light photocatalyst. <i>Journal of Materials Chemistry</i> , 2012, 22, 2081-2088.	6.7	84
70	Ultrathin mesoporous g-C $_3\text{N}_4/\text{NH}_2\text{-MIL-101(Fe)}$ octahedron heterojunctions as efficient photo-Fenton-like system for enhanced photo-thermal effect and promoted visible-light-driven photocatalytic performance. <i>Applied Surface Science</i> , 2021, 537, 147890.	6.1	84
71	Facile Synthesis of $\text{Co}_9\text{S}_8$ Hollow Spheres as a High-Performance Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1863-1871.	6.7	82
72	$\text{TiO}_2$ -B narrow nanobelt/ $\text{TiO}_2$ nanoparticle composite photoelectrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2009, 54, 7350-7356.	5.2	81

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73	Porous Cobalt Titanate Nanorod: A New Candidate for Visible Light-Driven Photocatalytic Water Oxidation. <i>ChemCatChem</i> , 2014, 6, 265-270.	3.7	81
74	Fine-Tuning Surface Properties of Perovskites via Nanocompositing with Inert Oxide toward Developing Superior Catalysts for Advanced Oxidation. <i>Advanced Functional Materials</i> , 2018, 28, 1804654.	14.9	80
75	Reduced graphene oxide decorated with carbon nanopolyhedrons as an efficient and lightweight microwave absorber. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 174-183.	9.4	80
76	Plasmon Ag-Promoted Solar-Thermal Conversion on Floating Carbon Cloth for Seawater Desalination and Sewage Disposal. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7066-7073.	8.0	80
77	Surface plasmon resonance-enhanced solar-driven photocatalytic performance from Ag nanoparticle-decorated self-floating porous black TiO <sub>2</sub> foams. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 111-117.	20.2	78
78	Assembly of TiO <sub>2</sub> ultrathin nanosheets with surface lattice distortion for solar-light-driven photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 317-323.	20.2	77
79	Hollow Octahedral Cu <sub>2</sub> S/CdS/Bi <sub>2</sub> S <sub>3</sub> p-n Type Tandem Heterojunctions for Efficient Photothermal Effect and Robust Visible-Light-Driven Photocatalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40328-40338.	8.0	77
80	From graphite to porous graphene-like nanosheets for high rate lithium-ion batteries. <i>Nano Research</i> , 2015, 8, 2998-3010.	10.4	76
81	Enhanced photogenerated carrier separation in CdS quantum dot sensitized ZnFe <sub>2</sub> O <sub>4</sub> /ZnIn <sub>2</sub> S <sub>4</sub> nanosheet stereoscopic films for exceptional visible light photocatalytic H <sub>2</sub> evolution performance. <i>Nanoscale</i> , 2017, 9, 5912-5921.	5.6	76
82	Hollow Nanoboxes Cu <sub>2</sub> S@ZnIn <sub>2</sub> S <sub>4</sub> Core-Shell Scheme Heterojunction with Broad Spectrum Response and Enhanced Photothermal-Photocatalytic Performance. <i>Small</i> , 2022, 18, .	10.0	76
83	Periodically Ordered Nanoporous Perovskite Photoelectrode for Efficient Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2018, 12, 6335-6342.	14.6	74
84	Precisely photothermal controlled releasing of antibacterial agent from Bi <sub>2</sub> S <sub>3</sub> hollow microspheres triggered by NIR light for water sterilization. <i>Chemical Engineering Journal</i> , 2020, 381, 122630.	12.7	74
85	Black N/TiO <sub>2</sub> Nanoplates with a Flower-Like Hierarchical Architecture for Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2016, 9, 2841-2848.	6.8	73
86	Assembly of $\beta$ -Cyclodextrins Acting as Molecular Bricks onto Multiwall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 951-957.	3.1	72
87	Ni <sub>3</sub> S <sub>2</sub> Nanosheets in Situ Epitaxially Grown on Nanorods as High Active and Stable Homo Junction Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2474-2481.	6.7	72
88	High-Efficient, Stable Electrocatalytic Hydrogen Evolution in Acid Media by Amorphous Fe <sub>3</sub> P Coating Fe <sub>2</sub> N Supported on Reduced Graphene Oxide. <i>Small</i> , 2018, 14, e1801717.	10.0	72
89	Controlled synthesis of mesoporous anatase TiO <sub>2</sub> microspheres as a scattering layer to enhance the photoelectrical conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9853.	10.3	70
90	Meso-g-C <sub>3</sub> N <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheets laminated homo junctions as efficient visible-light-driven photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25969-25979.	7.1	70

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91	B and N isolate-doped graphitic carbon nanosheets from nitrogen-containing ion-exchanged resins for enhanced oxygen reduction. <i>Scientific Reports</i> , 2014, 4, 5184.	3.3	68
92	Hierarchical SnS <sub>2</sub> /CuInS <sub>2</sub> Nanosheet Heterostructure Films Decorated with C <sub>60</sub> for Remarkable Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9093-9101.	8.0	68
93	A floating macro/mesoporous crystalline anatase TiO <sub>2</sub> ceramic with enhanced photocatalytic performance for recalcitrant wastewater degradation. <i>Dalton Transactions</i> , 2014, 43, 790-798.	3.3	67
94	In-situ S-doped porous anatase TiO <sub>2</sub> nanopillars for high-efficient visible-light photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1535-1541.	7.1	65
95	Engineering oxygen vacancy on rutile TiO <sub>2</sub> for efficient electron-hole separation and high solar-driven photocatalytic hydrogen evolution. <i>Science China Materials</i> , 2018, 61, 822-830.	6.3	65
96	Controllable synthesis of graphitic carbon nanostructures from ion-exchange resin-iron complex via solid-state pyrolysis process. <i>Chemical Communications</i> , 2008, , 5411.	4.1	64
97	NaYF <sub>4</sub> :Er <sup>3+</sup> /Yb <sup>3+</sup> “graphene composites: preparation, upconversion luminescence, and application in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 20381.	6.7	63
98	A novel phase-mixed MgTiO <sub>3</sub> “MgTi <sub>2</sub> O <sub>5</sub> heterogeneous nanorod for high efficiency photocatalytic hydrogen production. <i>Chemical Communications</i> , 2013, 49, 8510.	4.1	62
99	In-situ C-N-S-tridoped single crystal black TiO <sub>2</sub> nanosheets with exposed {001} facets as efficient visible-light-driven photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 572-579.	20.2	61
100	Wide spectral response photothermal catalysis-fenton coupling systems with 3D hierarchical Fe <sub>3</sub> O <sub>4</sub> /Ag/Bi <sub>2</sub> MoO <sub>6</sub> ternary hetero-superstructural magnetic microspheres for efficient high-toxic organic pollutants removal. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 24-33.	9.4	61
101	BiVO <sub>4</sub> @ZnIn <sub>2</sub> S <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> MXene quantum dots assembly all-solid-state direct Z-Scheme photocatalysts for efficient visible-light-driven overall water splitting. <i>Applied Materials Today</i> , 2020, 20, 100719.	4.3	61
102	Gear-shaped mesoporous NH <sub>2</sub> -MIL-53(Al)/CdS P-N heterojunctions as efficient visible-light-driven photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120106.	20.2	60
103	A Floating Porous Crystalline TiO <sub>2</sub> Ceramic with Enhanced Photocatalytic Performance for Wastewater Decontamination. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2411-2417.	2.0	59
104	Highly crystalline graphene/carbon black composite counter electrodes with controllable content: Synthesis, characterization and application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 96, 155-163.	5.2	59
105	Ni <sup>2+</sup> and Ti <sup>3+</sup> co-doped porous black anatase TiO <sub>2</sub> with unprecedented-high visible-light-driven photocatalytic degradation performance. <i>RSC Advances</i> , 2015, 5, 107150-107157.	3.6	59
106	Nitrogen removal and biofilm structure affected by COD/NH <sub>4</sub> <sup>+</sup> “N in a biofilter with porous sludge-ceramsite. <i>Separation and Purification Technology</i> , 2012, 94, 9-15.	7.9	58
107	Hierarchical Composite of Ag/AgBr Nanoparticles Supported on Bi <sub>2</sub> MoO <sub>6</sub> Hollow Spheres for Enhanced Visible“Light Photocatalytic Performance. <i>ChemPlusChem</i> , 2013, 78, 117-123.	2.8	58
108	Synergistic effect of Mo <sub>2</sub> N and Pt for promoted selective hydrogenation of cinnamaldehyde over Pt“Mo <sub>2</sub> N/SBA-15. <i>Catalysis Science and Technology</i> , 2016, 6, 2403-2412.	4.1	58

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109	Mesoporous black N-TiO <sub>2</sub> hollow spheres as efficient visible-light-driven photocatalysts. <i>Journal of Catalysis</i> , 2017, 356, 246-254.	6.2	58
110	Enhanced Photocatalytic Hydrogen Evolution over Hierarchical Composites of ZnIn <sub>2</sub> S <sub>4</sub> Nanosheets Grown on MoS <sub>2</sub> Slices. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1291-1297.	3.3	57
111	Multi-modal mesoporous TiO <sub>2</sub> /ZrO <sub>2</sub> composites with high photocatalytic activity and hydrophilicity. <i>Nanotechnology</i> , 2008, 19, 035610.	2.6	56
112	Novel heterogeneous CdS nanoparticles/NiTiO <sub>3</sub> nanorods with enhanced visible-light-driven photocatalytic activity. <i>RSC Advances</i> , 2013, 3, 18305.	3.6	56
113	In situ controlled growth of well-dispersed gold nanoparticles in TiO <sub>2</sub> nanotube arrays as recyclable substrates for surface-enhanced Raman scattering. <i>Dalton Transactions</i> , 2012, 41, 1020-1026.	3.3	54
114	O, S-Dual-Vacancy Defects Mediated Efficient Charge Separation in ZnIn <sub>2</sub> S <sub>4</sub> /Black TiO <sub>2</sub> Heterojunction Hollow Spheres for Boosting Photocatalytic Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37545-37552.	8.0	52
115	The enhanced co-catalyst free photocatalytic hydrogen evolution and stability based on indenofluorene-containing donor-acceptor conjugated polymer dots/g-C <sub>3</sub> N <sub>4</sub> nanosheets heterojunction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118067.	20.2	51
116	One pot synthesis of Ag nanoparticle modified ZnO microspheres in ethylene glycol medium and their enhanced photocatalytic performance. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2720-2725.	2.9	50
117	Hierarchical FeTiO <sub>3</sub> /TiO <sub>2</sub> hollow spheres for efficient simulated sunlight-driven water oxidation. <i>Nanoscale</i> , 2015, 7, 15924-15934.	5.6	50
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119	Nano-zero-valent iron and MnOx selective deposition on BiVO <sub>4</sub> decahedron superstructures for promoted spatial charge separation and exceptional catalytic activity in visible-light-driven photocatalysis-Fenton coupling system. <i>Journal of Hazardous Materials</i> , 2019, 377, 330-340.	12.4	48
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123	808 nm light triggered black TiO <sub>2</sub> nanoparticles for killing of bladder cancer cells. <i>Materials Science and Engineering C</i> , 2017, 81, 252-260.	7.3	46
124	Surface-defect-rich mesoporous NH <sub>2</sub> -MIL-125 (Ti)@Bi <sub>2</sub> MoO <sub>6</sub> core-shell heterojunction with improved charge separation and enhanced visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 324-334.	9.4	44
125	Hollow cubic Cu <sub>2-x</sub> S/Fe-POMs/AgVO <sub>3</sub> dual Z-scheme heterojunctions with wide-spectrum response and enhanced photothermal and photocatalytic-fenton performance. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120628.	20.2	44
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130	Surface Plasmon Resonance-Enhanced Visible-NIR-Driven Photocatalytic and Photothermal Catalytic Performance by Ag/Mesoporous Black TiO <sub>2</sub> Nanotube Heterojunctions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 177-186.	3.3	39
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132	Room temperature solution synthesis of hierarchical bow-like Cu <sub>2</sub> O with high visible light driven photocatalytic activity. <i>RSC Advances</i> , 2012, 2, 2875.	3.6	38
133	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.	10.4	38
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