

Yingge Zhang

List of Publications by Year in descending order

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papers

30,396
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4146

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11860-11864.	13.8	850
2	Anionic Group Self-Doping as a Promising Strategy: Band-Gap Engineering and Multi-Functional Applications of High-Performance CO_2 -Doped $\text{Bi}_2\text{O}_2\text{CO}_3$. <i>ACS Catalysis</i> , 2015, 5, 4094-4103.	11.2	690
3	Fabrication of Multiple Heterojunctions with Tunable Visible-Light-Active Photocatalytic Reactivity in BiOBr/BiOI Full-Range Composites Based on Microstructure Modulation and Band Structures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 482-492.	8.0	671
4	Precursor-reforming protocol to 3D mesoporous $\text{g-C}_3\text{N}_4$ established by ultrathin self-doped nanosheets for superior hydrogen evolution. <i>Nano Energy</i> , 2017, 38, 72-81.	16.0	596
5	The Role of Polarization in Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10061-10073.	13.8	590
6	In situ assembly of $\text{BiOI}/\text{Bi}_{12}\text{O}_{17}\text{Cl}_2$ p-n junction: charge induced unique front-lateral surfaces coupling heterostructure with high exposure of BiOI {001} active facets for robust and nonselective photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 75-86.	20.2	577
7	Three- π -One Oxygen Vacancies: Whole Visible-Spectrum Absorption, Efficient Charge Separation, and Surface Site Activation for Robust CO_2 Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3880-3884.	13.8	483
8	Piezocatalysis and Piezo-Photocatalysis: Catalysts Classification and Modification Strategy, Reaction Mechanism, and Practical Application. <i>Advanced Functional Materials</i> , 2020, 30, 2005158.	14.9	435
9	Macroscopic Spontaneous Polarization and Surface Oxygen Vacancies Collaboratively Boosting CO_2 Photoreduction on $\text{BiOI}/\text{Bi}_2\text{O}_3$ Single Crystals. <i>Advanced Materials</i> , 2020, 32, e1908350.	21.0	372
10	Thickness-Dependent Facet Junction Control of Layered $\text{BiOI}/\text{Bi}_2\text{O}_3$ Single Crystals for Highly Efficient CO_2 Photoreduction. <i>Advanced Functional Materials</i> , 2018, 28, 1804284.	14.9	358
11	$\text{Bi}_2\text{O}_3(\text{OH})(\text{NO}_3)$ as a desirable [Bi_2O_3] ²⁺ layered photocatalyst: strong intrinsic polarity, rational band structure and {001} active facets co-beneficial for robust photooxidation capability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24547-24556.	10.3	352
12	Inside-and-Out Semiconductor Engineering for CO_2 Photoreduction: From Recent Advances to New Trends. <i>Small Structures</i> , 2021, 2, 2000061.	12.0	346
13	Ce and F Comodification on the Crystal Structure and Enhanced Photocatalytic Activity of Bi_2WO_6 Photocatalyst under Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14379-14387.	3.1	345
14	Surface-Halogenation-Induced Atomic-Site Activation and Local Charge Separation for Superb CO_2 Photoreduction. <i>Advanced Materials</i> , 2019, 31, e1900546.	21.0	343
15	Two Novel Bi-Based Borate Photocatalysts: Crystal Structure, Electronic Structure, Photoelectrochemical Properties, and Photocatalytic Activity under Simulated Solar Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22986-22994.	3.1	334
16	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 465-474.	20.2	328
17	Mediator-free direct Z-scheme photocatalytic system: $\text{BiVO}_4/\text{g-C}_3\text{N}_4$ organic-inorganic hybrid photocatalyst with highly efficient visible-light-induced photocatalytic activity. <i>Dalton Transactions</i> , 2015, 44, 4297-4307.	3.3	326
18	Template-free precursor-surface-etching route to porous, thin $\text{g-C}_3\text{N}_4$ nanosheets for enhancing photocatalytic reduction and oxidation activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17452-17463.	10.3	324

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19	In situ co-pyrolysis fabrication of CeO ₂ /g-C ₃ N ₄ n type heterojunction for synchronously promoting photo-induced oxidation and reduction properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17120-17129.	10.3	319
20	Rational design on 3D hierarchical bismuth oxyiodides via in situ self-template phase transformation and phase-junction construction for optimizing photocatalysis against diverse contaminants. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 879-888.	20.2	289
21	A General and Facile Approach to Heterostructured Core/Shell BiVO ₄ /BiOI n Junction: Room-Temperature in Situ Assembly and Highly Boosted Visible-Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3262-3273.	6.7	285
22	Exceptional Cocatalyst-Free Photo-Enhanced Piezocatalytic Hydrogen Evolution of Carbon Nitride Nanosheets from Strong In-Plane Polarization. <i>Advanced Materials</i> , 2021, 33, e2101751.	21.0	272
23	Single-unit-cell layer established Bi ₂ WO ₆ 3D hierarchical architectures: Efficient adsorption, photocatalysis and dye-sensitized photoelectrochemical performance. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 526-537.	20.2	264
24	Oxygen Vacant Semiconductor Photocatalysts. <i>Advanced Functional Materials</i> , 2021, 31, 2100919.	14.9	242
25	Deep-Ultraviolet Nonlinear Optical Materials: Na ₂ Be ₄ B ₄ O ₁₁ and LiNa ₅ Be ₁₂ B ₁₂ O ₃₃ . <i>Journal of the American Chemical Society</i> , 2013, 135, 18319-18322.	13.7	234
26	Unprecedented Eighteen-Faceted BiOCl with a Ternary Facet Junction Boosting Cascade Charge Flow and Photo-redox. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9517-9521.	13.8	230
27	Local spatial charge separation and proton activation induced by surface hydroxylation promoting photocatalytic hydrogen evolution of polymeric carbon nitride. <i>Nano Energy</i> , 2018, 50, 383-392.	16.0	226
28	Coupling Piezocatalysis and Photocatalysis in Bi ₄ NbO ₈ X (X = Cl, Br) Polar Single Crystals. <i>Advanced Functional Materials</i> , 2020, 30, 1908168.	14.9	225
29	Nanostructured Metal Sulfides: Classification, Modification Strategy, and Solar-Driven CO ₂ Reduction Application. <i>Advanced Functional Materials</i> , 2021, 31, 2008008.	14.9	221
30	Photocatalysis Enhanced by External Fields. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16309-16328.	13.8	218
31	Intermediate-mediated strategy to horn-like hollow mesoporous ultrathin g-C ₃ N ₄ tube with spatial anisotropic charge separation for superior photocatalytic H ₂ evolution. <i>Nano Energy</i> , 2017, 41, 738-748.	16.0	215
32	Controllable synthesis of multi-responsive ferroelectric layered perovskite-like Bi ₄ Ti ₃ O ₁₂ : Photocatalysis and piezoelectric-catalysis and mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 550-562.	20.2	215
33	Atomic-Level Charge Separation Strategies in Semiconductor-Based Photocatalysts. <i>Advanced Materials</i> , 2021, 33, e2005256.	21.0	215
34	NIR-Visible UV Light-Responsive Actuator Films of Polymer-Dispersed Liquid Crystal/Graphene Oxide Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27494-27501.	8.0	211
35	Facet-charge-induced coupling dependent interfacial photocharge separation: A case of BiOI/g-C ₃ N ₄ p-n junction. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118697.	20.2	202
36	Synergistic Polarization Engineering on Bulk and Surface for Boosting CO ₂ Photoreduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18303-18308.	13.8	197

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37	Sulfur Embedded in a Mesoporous Carbon Nanotube Network as a Binder-Free Electrode for High-Performance Lithium-Sulfur Batteries. ACS Nano, 2016, 10, 1300-1308.	14.6	196
38	2D Graphitic Carbon Nitride for Energy Conversion and Storage. Advanced Functional Materials, 2021, 31, 2102540.	14.9	190
39	Synergy of ferroelectric polarization and oxygen vacancy to promote CO ₂ photoreduction. Nature Communications, 2021, 12, 4594.	12.8	180
40	Biomolecule-assisted self-assembly of CdS/MoS ₂ /graphene hollow spheres as high-efficiency photocatalysts for hydrogen evolution without noble metals. Applied Catalysis B: Environmental, 2016, 182, 504-512.	20.2	175
41	Rational nanostructure design of graphitic carbon nitride for photocatalytic applications. Journal of Materials Chemistry A, 2019, 7, 11584-11612.	10.3	174
42	Readily achieving concentration-tunable oxygen vacancies in Bi ₂ O ₂ CO ₃ : Triple-functional role for efficient visible-light photocatalytic redox performance. Applied Catalysis B: Environmental, 2018, 226, 441-450.	20.2	169
43	Influences of Gd Substitution on the Crystal Structure and Visible-Light-Driven Photocatalytic Performance of Bi ₂ WO ₆ . Journal of Physical Chemistry C, 2014, 118, 15640-15648.	3.1	166
44	In Situ Co-Crystallization for Fabrication of g-C ₃ N ₄ /Bi ₅ O ₇ I Heterojunction for Enhanced Visible-Light Photocatalysis. Journal of Physical Chemistry C, 2015, 119, 17156-17165.	3.1	165
45	Rapid and facile ratiometric detection of an anthrax biomarker by regulating energy transfer process in bio-metal-organic framework. Biosensors and Bioelectronics, 2016, 85, 287-293.	10.1	163
46	Z-Scheme g-C ₃ N ₄ /Bi ₄ NbO ₈ Cl Heterojunction for Enhanced Photocatalytic Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 16219-16227.	6.7	156
47	MOF-derived Ni-doped CoP@C grown on CNTs for high-performance supercapacitors. Chemical Engineering Journal, 2020, 385, 123454.	12.7	155
48	A core-satellite structured Z-scheme catalyst Cd _{0.5} Zn _{0.5} S/BiVO ₄ for highly efficient and stable photocatalytic water splitting. Journal of Materials Chemistry A, 2018, 6, 16932-16942.	10.3	154
49	Cooperation of oxygen vacancies and 2D ultrathin structure promoting CO ₂ photoreduction performance of Bi ₄ Ti ₃ O ₁₂ . Science Bulletin, 2020, 65, 934-943.	9.0	151
50	Ferroelectric polarization promoted bulk charge separation for highly efficient CO ₂ photoreduction of SrBi ₄ Ti ₄ O ₁₅ . Nano Energy, 2019, 56, 840-850.	16.0	144
51	Band structure engineering and efficient charge transport in oxygen substituted g-C ₃ N ₄ for superior photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 230, 115-124.	20.2	143
52	Mechanical and thermal properties of basalt fiber reinforced poly(butylene succinate) composites. Materials Chemistry and Physics, 2012, 133, 845-849.	4.0	142
53	Liquid-Phase Exfoliation into Monolayered BiOBr Nanosheets for Photocatalytic Oxidation and Reduction. ACS Sustainable Chemistry and Engineering, 2017, 5, 10499-10508.	6.7	140
54	A g-C ₃ N ₄ /Bi ₂ O ₂ CO ₃ composite with high visible-light-driven photocatalytic activity for rhodamine B degradation. Applied Surface Science, 2014, 322, 249-254.	6.1	136

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55	In situ crystallization for fabrication of a core-satellite structured BiOBr-CdS heterostructure with excellent visible-light-responsive photoreactivity. <i>Nanoscale</i> , 2015, 7, 11702-11711.	5.6	134
56	Highly ordered nanoporous TiO ₂ and its photocatalytic properties. <i>Electrochemistry Communications</i> , 2007, 9, 2854-2858.	4.7	133
57	Surface sites engineering on semiconductors to boost photocatalytic CO ₂ reduction. <i>Nano Energy</i> , 2020, 75, 104959.	16.0	132
58	A nanoscaled lanthanide metal-organic framework as a colorimetric fluorescence sensor for dipicolinic acid based on modulating energy transfer. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7294-7301.	5.5	131
59	Plasma surface modification of poly vinyl chloride for improvement of antibacterial properties. <i>Biomaterials</i> , 2006, 27, 44-51.	11.4	130
60	Ultrasensitive Specific Stimulant Assay Based on Molecularly Imprinted Photonic Hydrogels. <i>Advanced Functional Materials</i> , 2008, 18, 575-583.	14.9	126
61	Solution growth of NiO nanosheets supported on Ni foam as high-performance electrodes for supercapacitors. <i>Nanoscale Research Letters</i> , 2014, 9, 424.	5.7	117
62	Multifunctional Bi ₂ O ₂ (OH)(NO ₃) Nanosheets with {001} Active Exposing Facets: Efficient Photocatalysis, Dye-Sensitization, and Piezoelectric-Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1848-1862.	6.7	117
63	Role of transition metal oxides in g-C ₃ N ₄ -based heterojunctions for photocatalysis and supercapacitors. <i>Journal of Energy Chemistry</i> , 2022, 64, 214-235.	12.9	117
64	Simultaneously promoting charge separation and photoabsorption of BiOX (X = Cl, Br) for efficient visible-light photocatalysis and photosensitization by compositing low-cost biochar. <i>Applied Surface Science</i> , 2016, 386, 285-295.	6.1	116
65	Synchronously Achieving Plasmonic Bi Metal Deposition and I ⁺ Doping by Utilizing BiOIO ₃ as the Self-Sacrificing Template for High-Performance Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27925-27933.	8.0	113
66	Bi ₄ NbO ₈ Cl {001} nanosheets coupled with g-C ₃ N ₄ as 2D/2D heterojunction for photocatalytic degradation and CO ₂ reduction. <i>Journal of Hazardous Materials</i> , 2020, 381, 121159.	12.4	111
67	Fabrication and enhanced dielectric properties of graphene-polyvinylidene fluoride functional hybrid films with a polyaniline interlayer. <i>Journal of Materials Chemistry A</i> , 2013, 1, 884-890.	10.3	110
68	Remanent-polarization-induced enhancement of photoluminescence in Pr ³⁺ -doped lead-free ferroelectric (Bi _{0.5} Na _{0.5})TiO ₃ ceramic. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	109
69	An RCH-MOF as a naked eye colorimetric fluorescent sensor for picric acid recognition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4661-4669.	5.5	109
70	Decorating g-C ₃ N ₄ Nanosheets with Ti ₃ C ₂ MXene Nanoparticles for Efficient Oxygen Reduction Reaction. <i>Langmuir</i> , 2019, 35, 2909-2916.	3.5	109
71	Achieving significantly enhanced dielectric performance of reduced graphene oxide/polymer composite by covalent modification of graphene oxide surface. <i>Carbon</i> , 2015, 94, 590-598.	10.3	108
72	A one-step hydrothermal preparation strategy for layered BiO ₄ /Bi ₂ WO ₆ heterojunctions with enhanced visible light photocatalytic activities. <i>RSC Advances</i> , 2014, 4, 5561.	3.6	105

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73	Biocompatibility and bioactivity of plasma-treated biodegradable poly(butylene succinate). <i>Acta Biomaterialia</i> , 2009, 5, 279-287.	8.3	104
74	Novel glass ceramic foams materials based on red mud. <i>Ceramics International</i> , 2014, 40, 6677-6683.	4.8	103
75	Homogeneous {001}-BiOBr/Bi Heterojunctions: Facile Controllable Synthesis and Morphology-Dependent Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4003-4012.	6.7	103
76	Photomechanical Motion of Liquid-Crystalline Fibers Bending Away from a Light Source. <i>Macromolecules</i> , 2017, 50, 8317-8324.	4.8	100
77	Ferroelectric spontaneous polarization steering charge carriers migration for promoting photocatalysis and molecular oxygen activation. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 113-122.	9.4	100
78	Highly Efficient Bi ₂ O ₂ CO ₃ Single-Crystal Lamellas with Dominantly Exposed {001} Facets. <i>Crystal Growth and Design</i> , 2015, 15, 534-537.	3.0	99
79	Layered bismuth-based photocatalysts. <i>Coordination Chemistry Reviews</i> , 2022, 463, 214515.	18.8	99
80	Photocatalytic Oxygen Evolution from Water Splitting. <i>Advanced Science</i> , 2021, 8, 2002458.	11.2	98
81	Fabrication and dielectric properties of oriented polyvinylidene fluoride nanocomposites incorporated with graphene nanosheets. <i>Materials Chemistry and Physics</i> , 2012, 134, 867-874.	4.0	96
82	Photomechanical response of polymer-dispersed liquid crystals/graphene oxide nanocomposites. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8501-8506.	5.5	96
83	Polypyrrole decorated BiOI nanosheets: Efficient photocatalytic activity for treating diverse contaminants and the critical role of bifunctional polypyrrole. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 719-727.	9.4	95
84	A highly sensitive hybridized soft piezophotocatalyst driven by gentle mechanical disturbances in water. <i>Nano Energy</i> , 2018, 53, 513-523.	16.0	95
85	Easily and Synchronously Ameliorating Charge Separation and Band Energy Level in Porous g-C ₃ N ₄ for Boosting Photooxidation and Photoreduction Ability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10381-10389.	3.1	91
86	Reactive sites rich porous tubular yolk-shell g-C ₃ N ₄ via precursor recrystallization mediated microstructure engineering for photoreduction. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 196-205.	20.2	91
87	Label-free immunosensor based on Pd nanoplates for amperometric immunoassay of alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , 2014, 53, 305-309.	10.1	90
88	Bismuth oxychloride homogeneous phasejunction BiOCl/Bi ₁₂ O ₁₇ Cl ₂ with unselectively efficient photocatalytic activity and mechanism insight. <i>Applied Surface Science</i> , 2017, 420, 303-312.	6.1	90
89	Non-noble metal Bi deposition by utilizing Bi ₂ WO ₆ as the self-sacrificing template for enhancing visible light photocatalytic activity. <i>Applied Surface Science</i> , 2017, 391, 491-498.	6.1	90
90	A 3D porous FeP/rGO modulated separator as a dual-function polysulfide barrier for high-performance lithium sulfur batteries. <i>Nanoscale Horizons</i> , 2020, 5, 530-540.	8.0	90

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91	Novel Method for the Fabrication of Flexible Film with Oriented Arrays of Graphene in Poly(vinylidene Tj ETQq1 10567-10573.	0.784314 3.1	rgBT /Ove 89
92	Facet, Junction and Electric Field Engineering of Bismuthâ€Based Materials for Photocatalysis. ChemCatChem, 2018, 10, 4477-4496.	3.7	89
93	Preparation of ultra-low dielectric constant silica/polyimide nanofiber membranes by electrospinning. Composites Part A: Applied Science and Manufacturing, 2016, 84, 292-298.	7.6	88
94	Achieving Enhanced UV and Visible Light Photocatalytic Activity for Ternary Ag/AgBr/BiOIO₃: Decomposition for Diverse Industrial Contaminants with Distinct Mechanisms and Complete Mineralization Ability. ACS Sustainable Chemistry and Engineering, 2017, 5, 7777-7791.	6.7	88
95	In Situ Composition-Transforming Fabrication of BiOI/BiOIO₃ Heterostructure: Semiconductor pâ€™n Junction and Dominantly Exposed Reactive Facets. Crystal Growth and Design, 2016, 16, 221-228.	3.0	87
96	Effects of carbon ash on rheological properties of water-based drilling fluids. Journal of Petroleum Science and Engineering, 2012, 100, 1-8.	4.2	85
97	Treatment of heavy oil wastewater by a conventional activated sludge process coupled with an immobilized biological filter. International Biodeterioration and Biodegradation, 2013, 84, 65-71.	3.9	84
98	Sn-SnO2 hybrid nanoclusters embedded in carbon nanotubes with enhanced electrochemical performance for advanced lithium ion batteries. Journal of Power Sources, 2019, 415, 126-135.	7.8	84
99	Bimetallic NiCo2S4 Nanoneedles Anchored on Mesocarbon Microbeads as Advanced Electrodes for Asymmetric Supercapacitors. Nano-Micro Letters, 2019, 11, 35.	27.0	83
100	N-doped-carbon coated Ni2P-Ni sheets anchored on graphene with superior energy storage behavior. Nano Research, 2019, 12, 607-618.	10.4	83
101	Photocatalysisâ€™Assisted Co₃O₄/gâ€™C₃N₄ pâ€™n Junction Allâ€™Solidâ€™State Supercapacitors: A Bridge between Energy Storage and Photocatalysis. Advanced Science, 2020, 7, 2001939.	11.2	83
102	Novel Bi-based iodate photocatalysts with high photocatalytic activity. Inorganic Chemistry Communication, 2014, 40, 215-219.	3.9	82
103	Nature-Derived Approach to Oxygen and Chlorine Dual-Vacancies for Efficient Photocatalysis and Photoelectrochemistry. ACS Sustainable Chemistry and Engineering, 2018, 6, 2395-2406.	6.7	80
104	Highly porous oxygen-doped NiCoP immobilized in reduced graphene oxide for supercapacitive energy storage. Composites Part B: Engineering, 2020, 182, 107611.	12.0	80
105	Novel BiIO₄/BiVO₄ composite photocatalyst with highly improved visible-light-induced photocatalytic performance for rhodamine B degradation and photocurrent generation. RSC Advances, 2015, 5, 1161-1167.	3.6	79
106	Combining Ruthenium(II) Complexes with Metalâ€™Organic Frameworks to Realize Effective Two-Photon Absorption for Singlet Oxygen Generation. ACS Applied Materials & Interfaces, 2016, 8, 21465-21471.	8.0	78
107	Room temperature synthesis of rutile nanorods and their applications on cloth. Nanotechnology, 2006, 17, 1927-1931.	2.6	76
108	Mixed-calcination synthesis of CdWO4/g-C3N4 heterojunction with enhanced visible-light-driven photocatalytic activity. Applied Surface Science, 2015, 358, 343-349.	6.1	74

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109	Ultrasensitive electrochemical immunosensor for quantitative detection of SCCA using Co ₃ O ₄ @CeO ₂ -Au@Pt nanocomposite as enzyme-mimetic labels. <i>Biosensors and Bioelectronics</i> , 2017, 92, 33-39.	10.1	74
110	Coupling ferroelectric polarization and anisotropic charge migration for enhanced CO ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119709.	20.2	74
111	One pot hydrothermal synthesis of a novel Bi ₂ O ₃ /Bi ₂ MoO ₆ heterojunction photocatalyst with enhanced visible-light-driven photocatalytic activity for rhodamine B degradation and photocurrent generation. <i>Journal of Alloys and Compounds</i> , 2015, 619, 807-811.	5.5	73
112	Achieving tunable photocatalytic activity enhancement by elaborately engineering composition-adjustable polynary heterojunctions photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 62-73.	20.2	73
113	Self-assembly of mesoporous ZnCo ₂ O ₄ nanomaterials: density functional theory calculation and flexible all-solid-state energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 568-577.	10.3	73
114	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. <i>Angewandte Chemie</i> , 2017, 129, 12022-12026.	2.0	73
115	Pyroelectric catalysis. <i>Nano Energy</i> , 2020, 78, 105371.	16.0	73
116	Ti ₃ C ₂ MXene nanoparticles modified metal oxide composites for enhanced photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2704-2710.	7.1	72
117	Self-sacrifice transformation for fabrication of type-I and type-II heterojunctions in hierarchical Bi ₂ O ₃ /g-C ₃ N ₄ for efficient visible-light photocatalysis. <i>Applied Surface Science</i> , 2019, 470, 1101-1110.	6.1	72
118	Chemically Bonded Fe ₂ O ₃ /Bi ₄ MO ₈ Cl Plate Schemed Junction with Strong Internal Electric Field for Selective Photooxidation of Aromatic Alcohols. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	72
119	BiPO ₄ /reduced graphene oxide composites photocatalyst with high photocatalytic activity. <i>Applied Surface Science</i> , 2014, 319, 272-277.	6.1	71
120	Recent Development of Alginate-Based Materials and Their Versatile Functions in Biomedicine, Flexible Electronics, and Environmental Uses. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1302-1337.	5.2	71
121	Preparation and characterization of Cu ₂ O@ZnO immobilized on diatomite for photocatalytic treatment of red water produced from manufacturing of TNT. <i>Chemical Engineering Journal</i> , 2011, 171, 61-68.	12.7	69
122	Fabrication of Heterogeneous-Phase Solid-Solution Promoting Band Structure and Charge Separation for Enhancing Photocatalytic CO ₂ Reduction: A Case of Zn _{1-x} Ca _x In ₂ S ₄ . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27773-27783.	8.0	68
123	Tunable 3D hierarchical graphene@BiO ₂ nanoarchitectures: their in situ preparation, and highly improved photocatalytic performance and photoelectrochemical properties under visible light irradiation. <i>RSC Advances</i> , 2014, 4, 49386-49394.	3.6	67
124	Boosting Zn-ion adsorption in cross-linked N/P co-incorporated porous carbon nanosheets for the zinc-ion hybrid capacitor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16565-16574.	10.3	67
125	Cable-like double-carbon layers for fast ion and electron transport: An example of CNT@NCT@MnO ₂ 3D nanostructure for high-performance supercapacitors. <i>Carbon</i> , 2019, 143, 335-342.	10.3	66
126	Highly porous honeycomb manganese oxide@carbon fibers core-shell nanocables for flexible supercapacitors. <i>Nano Energy</i> , 2015, 13, 47-57.	16.0	65

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127	Facile <i>in situ</i> Self-Sacrifice Approach to Ternary Hierarchical Architecture Ag/AgX (X = Cl, Br), Tj ETQq1 1 0.784314 rgBT /Overlo Mechanism. ACS Sustainable Chemistry and Engineering, 2016, 4, 3305-3315.	6.7	65
128	Z-scheme g-C ₃ N ₄ /Bi ₂ O ₃ [BO ₂ (OH)] heterojunction for enhanced photocatalytic CO ₂ reduction. Journal of Colloid and Interface Science, 2020, 568, 139-147.	9.4	65
129	Engineering piezoelectricity and strain sensitivity in CdS to promote piezocatalytic hydrogen evolution. Chinese Journal of Catalysis, 2022, 43, 1277-1285.	14.0	65
130	NiCo ₂ O ₄ nanostructure materials: morphology control and electrochemical energy storage. Dalton Transactions, 2014, 43, 15887-15897.	3.3	63
131	Diatomite-immobilized BiOI hybrid photocatalyst: Facile deposition synthesis and enhanced photocatalytic activity. Applied Surface Science, 2015, 353, 1179-1185.	6.1	63
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