

Yong Zhou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6931602/publications.pdf>

Version: 2024-02-01

301
papers

23,022
citations

13827

67
h-index

9311

143
g-index

309
all docs

309
docs citations

309
times ranked

23842
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal Dehydration for the "Green" Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. <i>Chemistry of Materials</i> , 2009, 21, 2950-2956.	3.2	1,430
2	Photocatalytic Conversion of CO ₂ into Renewable Hydrocarbon Fuels: State-of-the-Art Accomplishment, Challenges, and Prospects. <i>Advanced Materials</i> , 2014, 26, 4607-4626.	11.1	1,319
3	Ionic Liquids for the Convenient Synthesis of Functional Nanoparticles and Other Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4988-4992.	7.2	1,127
4	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 998-1013.	7.8	706
5	High-Yield Synthesis of Ultralong and Ultrathin Zn ₂ GeO ₄ Nanoribbons toward Improved Photocatalytic Reduction of CO ₂ into Renewable Hydrocarbon Fuel. <i>Journal of the American Chemical Society</i> , 2010, 132, 14385-14387.	6.6	606
6	Z-scheme Photocatalytic Systems for Promoting Photocatalytic Performance: Recent Progress and Future Challenges. <i>Advanced Science</i> , 2016, 3, 1500389.	5.6	600
7	Synthesis of Very Small TiO ₂ Nanocrystals in a Room-Temperature Ionic Liquid and Their Self-Assembly toward Mesoporous Spherical Aggregates. <i>Journal of the American Chemical Society</i> , 2003, 125, 14960-14961.	6.6	572
8	Room-Temperature Ionic Liquids as Template to Monolithic Mesoporous Silica with Wormlike Pores via a Sol-Gel Nanocasting Technique. <i>Nano Letters</i> , 2004, 4, 477-481.	4.5	496
9	A Novel Ultraviolet Irradiation Photoreduction Technique for the Preparation of Single-Crystal Ag Nanorods and Ag Dendrites. <i>Advanced Materials</i> , 1999, 11, 850-852.	11.1	402
10	In situ construction of hierarchical WO ₃ /g-C ₃ N ₄ composite hollow microspheres as a Z-scheme photocatalyst for the degradation of antibiotics. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 417-428.	10.8	379
11	Robust Hollow Spheres Consisting of Alternating Titania Nanosheets and Graphene Nanosheets with High Photocatalytic Activity for CO ₂ Conversion into Renewable Fuels. <i>Advanced Functional Materials</i> , 2012, 22, 1215-1221.	7.8	373
12	High-Yield Synthesis of Ultrathin and Uniform Bi ₂ WO ₆ Square Nanoplates Benefitting from Photocatalytic Reduction of CO ₂ into Renewable Hydrocarbon Fuel under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3594-3601.	4.0	359
13	An In Situ Simultaneous Reduction-Hydrolysis Technique for Fabrication of TiO ₂ -Graphene 2D Sandwich-Like Hybrid Nanosheets: Graphene-Promoted Selectivity of Photocatalytic-Driven Hydrogenation and Coupling of CO ₂ into Methane and Ethane. <i>Advanced Functional Materials</i> , 2013, 23, 1743-1749.	7.8	357
14	Versatile Graphene-Promoting Photocatalytic Performance of Semiconductors: Basic Principles, Synthesis, Solar Energy Conversion, and Environmental Applications. <i>Advanced Functional Materials</i> , 2013, 23, 4996-5008.	7.8	335
15	Ultrathin, Single-Crystal WO ₃ Nanosheets by Two-Dimensional Oriented Attachment toward Enhanced Photocatalytic Reduction of CO ₂ into Hydrocarbon Fuels under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3372-3377.	4.0	332
16	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H ₂ Evolution and CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7260-7268.	3.2	322
17	Microstructuring of Graphene Oxide Nanosheets Using Direct Laser Writing. <i>Advanced Materials</i> , 2010, 22, 67-71.	11.1	311
18	A Room-Temperature Reactive-Template Route to Mesoporous ZnGa ₂ O ₄ with Improved Photocatalytic Activity in Reduction of CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6400-6404.	7.2	307

#	ARTICLE	IF	CITATIONS
19	Multilayer Hybrid Films Consisting of Alternating Graphene and Titania Nanosheets with Ultrafast Electron Transfer and Photoconversion Properties. <i>Advanced Functional Materials</i> , 2009, 19, 3638-3643.	7.8	294
20	Hexahedron Prism-Anchored Octahedral CeO_2 : Crystal Facet-Based Homojunction Promoting Efficient Solar Fuel Synthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 9547-9550.	6.6	294
21	Formation of Uniform CuO Nanorods by Spontaneous Aggregation: A Selective Synthesis of CuO , Cu_2O , and Cu Nanoparticles by a Solid-Liquid Phase Arc Discharge Process. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14011-14016.	1.2	280
22	Preparation and characterization of Pt supported on graphene with enhanced electrocatalytic activity in fuel cell. <i>Journal of Power Sources</i> , 2011, 196, 1012-1018.	4.0	258
23	A Novel Ultraviolet Irradiation Technique for Shape-Controlled Synthesis of Gold Nanoparticles at Room Temperature. <i>Chemistry of Materials</i> , 1999, 11, 2310-2312.	3.2	255
24	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme $\text{WO}_3/\text{Au}/\text{In}_2\text{S}_3$ Nanowire Arrays. <i>Nano Letters</i> , 2016, 16, 5547-5552.	4.5	217
25	Preparation of Highly Ordered Monolithic Super-Microporous Lamellar Silica with a Room-Temperature Ionic Liquid as Template via the Nanocasting Technique. <i>Advanced Materials</i> , 2003, 15, 1452-1455.	11.1	215
26	Urchin-like hierarchical $\text{CoZnAl-LDH}/\text{RGO}/\text{g-C}_3\text{N}_4$ hybrid as a Z-scheme photocatalyst for efficient and selective CO_2 reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117771.	10.8	212
27	A Series of Highly Ordered, Super-Microporous, Lamellar Silicas Prepared by Nanocasting with Ionic Liquids. <i>Chemistry of Materials</i> , 2004, 16, 544-550.	3.2	206
28	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO_4 Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO_2 into CO . <i>Journal of the American Chemical Society</i> , 2019, 141, 4209-4213.	6.6	199
29	Enhanced Photocatalytic Performance through Magnetic Field Boosting Carrier Transport. <i>ACS Nano</i> , 2018, 12, 3351-3359.	7.3	190
30	Formation of Silver Nanowires by a Novel Solid-Liquid Phase Arc Discharge Method. <i>Chemistry of Materials</i> , 1999, 11, 545-546.	3.2	178
31	High-yield synthesis of millimetre-long, semiconducting carbon nitride nanotubes with intense photoluminescence emission and reproducible photoconductivity. <i>Nanoscale</i> , 2012, 4, 3687.	2.8	166
32	Recent Advances in Ionic Liquids for Synthesis of Inorganic Nanomaterials. <i>Current Nanoscience</i> , 2005, 1, 35-42.	0.7	158
33	Polyhedral 30-Faceted BiVO_4 Microcrystals Predominantly Enclosed by High-Index Planes Promoting Photocatalytic Water-Splitting Activity. <i>Advanced Materials</i> , 2018, 30, 1703119.	11.1	155
34	$\text{Au}@\text{TiO}_2$ yolk-shell hollow spheres for plasmon-induced photocatalytic reduction of CO_2 to solar fuel via a local electromagnetic field. <i>Nanoscale</i> , 2015, 7, 14232-14236.	2.8	153
35	Single-Crystalline, Ultrathin ZnGa_2O_4 Nanosheet Scaffolds To Promote Photocatalytic Activity in CO_2 Reduction into Methane. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2356-2361.	4.0	151
36	Zn_2GeO_4 crystal splitting toward sheaf-like, hyperbranched nanostructures and photocatalytic reduction of CO_2 into CH_4 under visible light after nitridation. <i>Journal of Materials Chemistry</i> , 2012, 22, 2033-2038.	6.7	145

#	ARTICLE	IF	CITATIONS
37	Controllable synthesis of nanocrystalline CdS with different morphologies and particle sizes by a novel solvothermal process. <i>Journal of Materials Chemistry</i> , 1999, 9, 1283-1287.	6.7	144
38	All-solid-state Z-scheme system arrays of Fe ₂ V ₄ O ₁₃ /RGO/CdS for visible light-driving photocatalytic CO ₂ reduction into renewable hydrocarbon fuel. <i>Chemical Communications</i> , 2015, 51, 800-803.	2.2	139
39	Photocatalytic reduction of CO ₂ over Ag/TiO ₂ nanocomposites prepared with a simple and rapid silver mirror method. <i>Nanoscale</i> , 2016, 8, 11870-11874.	2.8	139
40	Foam-like Co ₉ S ₈ /Ni ₃ S ₂ heterostructure nanowire arrays for efficient bifunctional overall water-splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 246-252.	10.8	138
41	Construction of unique two-dimensional MoS ₂ -TiO ₂ hybrid nanojunctions: MoS ₂ as a promising cost-effective cocatalyst toward improved photocatalytic reduction of CO ₂ to methanol. <i>Nanoscale</i> , 2017, 9, 9065-9070.	2.8	134
42	Lipid Nanotubes: A Unique Template To Create Diverse One-Dimensional Nanostructures. <i>Chemistry of Materials</i> , 2008, 20, 625-633.	3.2	129
43	Vacancy-defect modulated pathway of photoreduction of CO ₂ on single atomically thin AgInP ₂ S ₆ sheets into olefiant gas. <i>Nature Communications</i> , 2021, 12, 4747.	5.8	128
44	Synthesis of Novel Stable Nanometer-Sized Metal (M = Pd, Au, Pt) Colloids Protected by a π -Conjugated Polymer. <i>Langmuir</i> , 2002, 18, 277-283.	1.6	124
45	Preparation and rate capability of Li ₄ Ti ₅ O ₁₂ hollow-sphere anode material. <i>Journal of Power Sources</i> , 2007, 166, 514-518.	4.0	124
46	Multi-channelled hierarchical porous carbon incorporated Co ₃ O ₄ nanopillar arrays as 3D binder-free electrode for high performance supercapacitors. <i>Nano Energy</i> , 2016, 20, 94-107.	8.2	122
47	Beyond C ₃ N ₄ π -conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. <i>Chemical Society Reviews</i> , 2021, 50, 2147-2172.	18.7	118
48	Preparation of a novel core-shell nanostructured gold colloid-silk fibroin bioconjugate by the protein in situ redox technique at room temperature. <i>Chemical Communications</i> , 2001, , 2518-2519.	2.2	115
49	A novel tailored bimodal porous silica with well-defined inverse opal microstructure and super-microporous lamellar nanostructure Electronic supplementary information (ESI) available: Fig. S1. See http://www.rsc.org/suppdata/cc/b3/b307444g/ . <i>Chemical Communications</i> , 2003, , 2564.	2.2	115
50	Elegant Construction of ZnIn ₂ S ₄ /BiVO ₄ Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15092-15100.	4.0	115
51	One-step growth of CoNi ₂ S ₄ nanoribbons on carbon fibers as platinum-free counter electrodes for fiber-shaped dye-sensitized solar cells with high performance: Polymorph-dependent conversion efficiency. <i>Nano Energy</i> , 2015, 11, 697-703.	8.2	108
52	Preparation and Characterization of a Novel Cocystal Explosive. <i>Crystal Growth and Design</i> , 2011, 11, 1759-1765.	1.4	102
53	Making Patterns on Graphene. <i>Advanced Materials</i> , 2010, 22, 3615-3620.	11.1	100
54	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO ₂ : Design and dependent performance for solar energy conversion and environment applications. <i>Materials Today</i> , 2020, 33, 75-86.	8.3	97

#	ARTICLE	IF	CITATIONS
55	Highly Flexible Self-Powered Organolead Trihalide Perovskite Photodetectors with Gold Nanowire Networks as Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23868-23875.	4.0	95
56	Hexagonal Nanoplate-Textured Micro-Octahedron Zn ₂ SnO ₄ : Combined Effects toward Enhanced Efficiencies of Dye-Sensitized Solar Cell and Photoreduction of CO ₂ into Hydrocarbon Fuels. <i>Crystal Growth and Design</i> , 2012, 12, 1476-1481.	1.4	91
57	Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting CO ₂ into Solar Fuels. <i>Advanced Functional Materials</i> , 2013, 23, 1839-1845.	7.8	89
58	Enhanced photovoltaic performance of a dye-sensitized solar cell using graphene@TiO ₂ photoanode prepared by a novel in situ simultaneous reduction-hydrolysis technique. <i>Nanoscale</i> , 2013, 5, 3481.	2.8	89
59	Enriching Hot Electrons via NIR-Photon-Excited Plasmon in WS ₂ @Cu Hybrids for Full-Spectrum Solar Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018, 28, 1804055.	7.8	89
60	Multilayer Hybrid Films of Titania Semiconductor Nanosheet and Silver Metal Fabricated via Layer-by-Layer Self-Assembly and Subsequent UV Irradiation. <i>Chemistry of Materials</i> , 2006, 18, 1235-1239.	3.2	86
61	In ³⁺ -doped BiVO ₄ photoanodes with passivated surface states for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10456-10465.	5.2	83
62	Boosting O ₂ Reduction and H ₂ O Dehydrogenation Kinetics: Surface <i>N</i> -Hydroxymethylation of <i>g</i> -C ₃ N ₄ Photocatalysts for the Efficient Production of H ₂ O ₂ . <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	76
63	Bismuth Vacancy-Induced Efficient CO ₂ Photoreduction in BiOCl Directly from Natural Air: A Progressive Step toward Photosynthesis in Nature. <i>Nano Letters</i> , 2021, 21, 10260-10266.	4.5	74
64	An Ion-Exchange Phase Transformation to ZnGa ₂ O ₄ Nanocube Towards Efficient Solar Fuel Synthesis. <i>Advanced Functional Materials</i> , 2013, 23, 758-763.	7.8	72
65	Hollow spheres consisting of Ti _{0.91} O ₂ /CdS nanohybrids for CO ₂ photofixation. <i>Chemical Communications</i> , 2015, 51, 13354-13357.	2.2	71
66	Rational construction of a CdS/reduced graphene oxide/TiO ₂ core-shell nanostructure as an all-solid-state Z-scheme system for CO ₂ photoreduction into solar fuels. <i>RSC Advances</i> , 2015, 5, 88409-88413.	1.7	71
67	Nitrated graphene oxide and its catalytic activity in thermal decomposition of ammonium perchlorate. <i>Materials Research Bulletin</i> , 2014, 50, 73-78.	2.7	68
68	Instant Preparation of Self-Assembled Metal-Complexed Lipid Nanotubes That Act as Templates to Produce Metal-Oxide Nanotubes. <i>Advanced Materials</i> , 2007, 19, 242-246.	11.1	67
69	Facile Face-Down Annealing Triggered Remarkable Texture Development in CH ₃ NH ₃ PbI ₃ Films for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6104-6113.	4.0	67
70	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. <i>Nano Today</i> , 2019, 28, 100763.	6.2	67
71	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Z-Scheme System for Efficient CO ₂ Reduction into Solar Fuels. <i>ACS Applied Energy Materials</i> , 2020, 3, 6561-6572.	2.5	67
72	Rational and scalable fabrication of high-quality WO ₃ /CdS core/shell nanowire arrays for photoanodes toward enhanced charge separation and transport under visible light. <i>Nanoscale</i> , 2013, 5, 11933.	2.8	66

#	ARTICLE	IF	CITATIONS
73	Helical Arrays of CdS Nanoparticles Tracing on a Functionalized Chiral Template of Glycolipid Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 403-406.	3.2	65
74	Unique Zn-doped SnO ₂ nano-echinus with excellent electron transport and light harvesting properties as photoanode materials for high performance dye-sensitized solar cell. <i>CrystEngComm</i> , 2012, 14, 6462.	1.3	64
75	3D hierarchical architecture collaborating with 2D/2D interface interaction in NiAl-LDH/Ti ₃ C ₂ nanocomposite for efficient and selective photoconversion of CO ₂ . <i>Journal of Energy Chemistry</i> , 2021, 59, 9-18.	7.1	64
76	Monodispersed Nb ₂ O ₅ Microspheres: Facile Synthesis, Air/Water Interfacial Self-Assembly, Nb ₂ O ₅ -Based Composite Films, and Their Selective NO ₂ Sensing. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500167.	1.9	62
77	Preparation, Optical Spectroscopy, and Electrochemical Studies of Novel π -Conjugated Polymer-Protected Stable PbS Colloidal Nanoparticles in a Nonaqueous Solution. <i>Langmuir</i> , 2002, 18, 5287-5292.	1.6	61
78	Double-shelled plasmonic Ag-TiO ₂ hollow spheres toward visible light-active photocatalytic conversion of CO ₂ into solar fuel. <i>APL Materials</i> , 2015, 3, .	2.2	59
79	Domino Effect: Gold Electrocatalyzing Lithium Reduction to Accelerate Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5257-5261.	7.2	58
80	Fabrication of hierarchically assembled microspheres consisting of nanoporous ZnO nanosheets for high-efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 14341.	6.7	57
81	Anchoring of black phosphorus quantum dots onto WO ₃ nanowires to boost photocatalytic CO ₂ conversion into solar fuels. <i>Chemical Communications</i> , 2020, 56, 7777-7780.	2.2	57
82	Vertically building Zn ₂ SnO ₄ nanowire arrays on stainless steel mesh toward fabrication of large-area, flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 3490.	2.8	56
83	Construction of an all-solid-state artificial Z-scheme system consisting of Bi ₂ WO ₆ /Au/CdS nanostructure for photocatalytic CO ₂ reduction into renewable hydrocarbon fuel. <i>Nanotechnology</i> , 2017, 28, 274002.	1.3	56
84	Preparation of π -conjugated polymer-protected gold nanoparticles in stable colloidal form. <i>Chemical Communications</i> , 2001, , 613-614.	2.2	55
85	Synthesis of a mesoporous single crystal Ga ₂ O ₃ nanoplate with improved photoluminescence and high sensitivity in detecting CO. <i>Chemical Communications</i> , 2010, 46, 6388.	2.2	54
86	Gram-Scale Synthesis of Graphene Quantum Dots from Single Carbon Atoms Growth via Energetic Material Deflagration. <i>Chemistry of Materials</i> , 2015, 27, 4319-4327.	3.2	54
87	Electrodeposited amorphous cobalt phosphosulfide on Ni foams for highly efficient overall water splitting. <i>Journal of Power Sources</i> , 2019, 431, 182-188.	4.0	54
88	Improved Surface Charge Transfer in MoO ₃ /BiVO ₄ Heterojunction Film for Photoelectrochemical Water Oxidation. <i>Electrochimica Acta</i> , 2017, 257, 181-191.	2.6	53
89	Na ₂ V ₆ O ₁₆ ·xH ₂ O nanoribbons: large-scale synthesis and visible-light photocatalytic activity of CO ₂ into solar fuels. <i>Nanoscale</i> , 2014, 6, 1896-1900.	2.8	50
90	Prussian blue analogue-derived Ni and Co bimetallic oxide nanoplate arrays block-built from porous and hollow nanocubes for the efficient oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 11765-11773.	2.8	50

#	ARTICLE	IF	CITATIONS
91	One-step growth of 3D CoNi ₂ S ₄ nanorods and cross-linked NiCo ₂ S ₄ nanosheet arrays on carbon paper as anodes for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2016, 52, 5258-5261.	2.2	49
92	Passivation Strategy of Reducing Both Electron and Hole Trap States for Achieving High-Efficiency PbS Quantum-Dot Solar Cells with Power Conversion Efficiency over 12%. <i>ACS Energy Letters</i> , 2020, 5, 3224-3236.	8.8	49
93	Decorating CoSe ₂ hollow nanospheres on reduced graphene oxide as advanced sulfur host material for performance enhanced lithium-sulfur batteries. <i>Nano Research</i> , 2019, 12, 2743-2748.	5.8	48
94	Broad spectral response photodetector based on individual tin-doped CdS nanowire. <i>AIP Advances</i> , 2014, 4, .	0.6	47
95	Organic half-metal derived erythroid-like BiVO ₄ /hm-C ₄ N ₃ Z-Scheme photocatalyst: Reduction sites upgrading and rate-determining step modulation for overall CO ₂ and H ₂ O conversion. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120277.	10.8	47
96	A convenient ultraviolet irradiation technique for in situ synthesis of CdS nanocrystallites at room temperature. <i>Journal of Materials Chemistry</i> , 2000, 10, 607-608.	6.7	46
97	Synthesis of one-molecule-thick single-crystalline nanosheets of energetic material for high-sensitive force sensor. <i>Scientific Reports</i> , 2012, 2, 698.	1.6	46
98	Porous, single crystalline titanium nitride nanoplates grown on carbon fibers: excellent counter electrodes for low-cost, high performance, fiber-shaped dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 14321-14324.	2.2	45
99	Thermodynamic and Kinetic Influence of Oxygen Vacancies on the Solar Water Oxidation Reaction of Fe ₂ O ₃ Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11625-11634.	4.0	45
100	Surfactant-Assisted Preparation of Novel Layered Silver Bromide-Based Inorganic/Organic Nanosheets by Pulsed Laser Ablation in Aqueous Media. <i>Advanced Functional Materials</i> , 2007, 17, 3554-3561.	7.8	44
101	Al-ZnO/CdS Photoanode Modified with a Triple Functions Conformal TiO ₂ Film for Enhanced Photoelectrochemical Efficiency and Stability. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117738.	10.8	44
102	WO ₃ homojunction photoanode: Integrating the advantages of WO ₃ different facets for efficient water oxidation. <i>Journal of Energy Chemistry</i> , 2021, 56, 37-45.	7.1	44
103	Antimicrobial Nanotubes Consisting of Ag-Embedded Peptidic Lipid Bilayer Membranes as Delivery Vehicles. <i>Advanced Materials</i> , 2009, 21, 1742-1745.	11.1	41
104	Simple method for the fluorinated functionalization of graphene oxide. <i>RSC Advances</i> , 2013, 3, 3881.	1.7	41
105	Direct Growth of Fe ₂ V ₄ O ₁₃ Nanoribbons on a Stainless Steel Mesh for Visible-Light Photoreduction of CO ₂ into Renewable Hydrocarbon Fuel and Degradation of Gaseous Isopropyl Alcohol. <i>ChemPlusChem</i> , 2013, 78, 274-278.	1.3	41
106	Flux synthesis of regular Bi ₄ TaO ₈ Cl square nanoplates exhibiting dominant exposure surfaces of {001} crystal facets for photocatalytic reduction of CO ₂ to methane. <i>Nanoscale</i> , 2018, 10, 1905-1911.	2.8	41
107	In situ no-slot joint integration of half-metallic C(CN) ₃ cocatalyst into g-C ₃ N ₄ scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO ₂ into CO. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118470.	10.8	41
108	Magnetic Field-Assisted Photoelectrochemical Water Splitting: The Photoelectrodes Have Weaker Nonradiative Recombination of Carrier. <i>ACS Catalysis</i> , 2021, 11, 1242-1247.	5.5	41

#	ARTICLE	IF	CITATIONS
109	Fluorescent Nanotubes Consisting of CdS-Embedded Bilayer Membranes of a Peptide Lipid. <i>Advanced Materials</i> , 2007, 19, 1055-1058.	11.1	40
110	Necklace-like Chains of Hybrid Nanospheres Consisting of Pd Nanocrystals and Peptidic Lipids. <i>Journal of the American Chemical Society</i> , 2009, 131, 2456-2457.	6.6	40
111	Preparation of an Fe ₂ Ni MOF on nickel foam as an efficient and stable electrocatalyst for the oxygen evolution reaction. <i>RSC Advances</i> , 2019, 9, 33558-33562.	1.7	40
112	State-of-the-Art Progress in Diverse Black Phosphorus-Based Structures: Basic Properties, Synthesis, Stability, Photo- and Electrocatalysis-Driven Energy Conversion. <i>Advanced Functional Materials</i> , 2021, 31, 2005197.	7.8	40
113	Controllable growth of dendritic ZnO nanowire arrays on a stainless steel mesh towards the fabrication of large area, flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 5454.	2.8	39
114	Synthesis of highly crystalline In ₂ Ge ₂ O ₇ (En) hybrid sub-nanowires with ultraviolet photoluminescence emissions and their selective photocatalytic reduction of CO ₂ into renewable fuel. <i>RSC Advances</i> , 2012, 2, 3247.	1.7	39
115	Stainless steel mesh-supported three-dimensional hierarchical SnO ₂ /Zn ₂ SnO ₄ composite for the applications in solar cell, gas sensor, and photocatalysis. <i>Applied Surface Science</i> , 2020, 502, 144113.	3.1	39
116	Fiber dye-sensitized solar cells consisting of TiO ₂ nanowires arrays on Ti thread as photoanodes through a low-cost, scalable route. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11790.	5.2	38
117	Porous ZnO nanosheet arrays constructed on weaved metal wire for flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 5102.	2.8	38
118	Ultralong metaheulandite Ca ₆ O ₁₆ ·3H ₂ O nanoribbons as novel host materials for lithium storage: Towards high-rate and excellent long-term cyclability. <i>Nano Energy</i> , 2016, 22, 38-47.	8.2	38
119	Bi ₂ Mo ₆ Nanostrip Networks for Enhanced Visible-Light Photocatalytic Reduction of CO ₂ to CH ₄ . <i>ChemPhysChem</i> , 2017, 18, 3240-3244.	1.0	38
120	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust Fe ₂ O ₃ Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10141-10146.	4.0	38
121	Lead Selenide Colloidal Quantum Dot Solar Cells Achieving High Open-Circuit Voltage with One-Step Deposition Strategy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3598-3603.	2.1	38
122	Hollow InVO ₄ Nanocuboid Assemblies toward Promoting Photocatalytic N ₂ Conversion Performance. <i>Advanced Materials</i> , 2021, 33, e2006780.	11.1	38
123	Lipid Nanotubes: Formation, Templating Nanostructures and Drug Nanocarriers. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2008, 33, 183-196.	6.8	37
124	Metallic molybdenum sulfide nanodots as platinum-alternative co-catalysts for photocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2019, 374, 237-245.	3.1	37
125	Boosting the hydrogen evolution performance of a ternary Mo _x Co _{1-x} P nanowire array by tuning the Mo/Co ratio. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14842-14848.	5.2	36
126	Facile room-temperature surface modification of unprecedented FeB co-catalysts on Fe ₂ O ₃ nanorod photoanodes for high photoelectrochemical performance. <i>Journal of Catalysis</i> , 2017, 352, 113-119.	3.1	35

#	ARTICLE	IF	CITATIONS
127	Synthesis of single-crystalline, porous TaON microspheres toward visible-light photocatalytic conversion of CO ₂ into liquid hydrocarbon fuels. RSC Advances, 2016, 6, 90792-90796.	1.7	34
128	Synthesis of bionic-macro/microporous MgO-modified TiO ₂ for enhanced CO ₂ photoreduction into hydrocarbon fuels. Chinese Journal of Catalysis, 2016, 37, 863-868.	6.9	34
129	Enhanced photoelectrochemical water oxidation on WO ₃ nanoflake films by coupling with amorphous TiO ₂ . Electrochimica Acta, 2018, 283, 871-881.	2.6	34
130	Nanowire-based hierarchical tin oxide/zinc stannate hollow microspheres: Enhanced solar energy utilization efficiency for dye-sensitized solar cells and photocatalytic degradation of dyes. Journal of Power Sources, 2015, 274, 575-581.	4.0	33
131	Zn _x /Cd _{1-x} S tunable band structure-directing photocatalytic activity and selectivity of visible-light reduction of CO ₂ into liquid solar fuels. Nanotechnology, 2018, 29, 064003.	1.3	33
132	Enhanced Photoelectrochemical Water Oxidation Performance on BiVO ₄ by Coupling of CoMoO ₄ as a Hole-Transfer and Conversion Cocatalyst. ACS Applied Materials & Interfaces, 2018, 10, 42207-42216.	4.0	33
133	Star-shaped multi-arm polymeric ionic liquid based on tetraalkylammonium cation as high performance gel electrolyte for lithium metal batteries. Electrochimica Acta, 2019, 301, 284-293.	2.6	33
134	Three-dimensional Bi ₂ MoO ₆ /TiO ₂ array heterojunction photoanode modified with cobalt phosphate cocatalyst for high-efficient photoelectrochemical water oxidation. Catalysis Today, 2019, 335, 262-268.	2.2	33
135	Electrocatalytic fixation of N ₂ into NO ₃ ⁻ : electron transfer between oxygen vacancies and loaded Au in Nb ₂ O ₅ nanobelts to promote ambient nitrogen oxidation. Journal of Materials Chemistry A, 2021, 9, 17442-17450.	5.2	33
136	Strained heterointerfaces in sandwich-like NiFe layered double hydroxides/Co _{1-x} S for highly efficient and superior long-term durable oxygen evolution reaction. Journal of Catalysis, 2020, 389, 132-139.	3.1	32
137	Objective Findings on the K-Doped <i>g</i> -C ₃ N ₄ Photocatalysts: The Presence and Influence of Organic Byproducts on K-Doped <i>g</i> -C ₃ N ₄ Photocatalysis. Langmuir, 2021, 37, 4859-4868.	1.6	32
138	Preparation and studies of Ag-TiO ₂ hybrid nanoparticles of core-shell structure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 67, 95-98.	1.7	31
139	Generalized synthesis of a family of multishelled metal oxide hollow microspheres. Journal of Materials Chemistry A, 2013, 1, 3575.	5.2	31
140	Four-armed branching and thermally integrated imidazolium-based polymerized ionic liquid as an all-solid-state polymer electrolyte for lithium metal battery. Electrochimica Acta, 2019, 324, 134827.	2.6	31
141	Exquisite design of porous carbon microtubule-scaffolding hierarchical In ₂ O ₃ -ZnIn ₂ S ₄ heterostructures toward efficient photocatalytic conversion of CO ₂ into CO. Nanoscale, 2020, 12, 14676-14681.	2.8	31
142	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. Advanced Science, 2022, 9, e2103744.	5.6	31
143	Synthesis of Bi ₆ Mo ₂ O ₁₅ sub-microwires via a molten salt method and enhancing the photocatalytic reduction of CO ₂ into solar fuel through tuning the surface oxide vacancies by simple post-heating treatment. CrystEngComm, 2013, 15, 9855.	1.3	30
144	Boosting solar water oxidation activity and stability of BiVO ₄ photoanode through the Co-catalytic effect of CuCoO ₂ . Electrochimica Acta, 2019, 304, 301-311.	2.6	30

#	ARTICLE	IF	CITATIONS
145	Engineering Self- <i>Reconstruction</i> via Flexible Components in Layered Double Hydroxides for Superior <i>Evolving</i> Performance. <i>Small</i> , 2021, 17, e2101671.	5.2	30
146	<i>In situ</i> construction of a 2D/2D heterostructured ZnIn ₂ S ₄ /Bi ₂ MoO ₆ Z-scheme system for boosting the photoreduction activity of Cr(<i>vi</i>). <i>Catalysis Science and Technology</i> , 2021, 11, 3885-3893.	2.1	30
147	Recent Progress in Biomolecule-Templated Nanomaterials. <i>Current Nanoscience</i> , 2006, 2, 123-134.	0.7	29
148	Construction of Visible-Light-Responsive SrTiO ₃ with Enhanced CO ₂ Adsorption Ability: Highly Efficient Photocatalysts for Artificial Photosynthesis. <i>Catalysis Letters</i> , 2015, 145, 640-646.	1.4	29
149	Unconventional gas-based bottom-up, meter-area-scale fabrication of hydrogen-bond free g-CN nanorod arrays and coupling layers with TiO ₂ toward high-efficiency photoelectrochemical performance. <i>Nanoscale</i> , 2018, 10, 3342-3349.	2.8	29
150	Highly symmetrical, 24-faceted, concave BiVO ₄ polyhedron bounded by multiple high-index facets for prominent photocatalytic O ₂ evolution under visible light. <i>Chemical Communications</i> , 2019, 55, 4777-4780.	2.2	29
151	Compacted stainless steel mesh-supported Co ₃ O ₄ porous nanobelts for HCHO catalytic oxidation and Co ₃ O ₄ @Co ₃ S ₄ via in situ sulfurization as platinum-free counter electrode for flexible dye-sensitized solar cells. <i>Applied Surface Science</i> , 2021, 536, 147815.	3.1	29
152	Egg-white-mediated crystallization of calcium carbonate. <i>Journal of Crystal Growth</i> , 2012, 361, 217-224.	0.7	28
153	One step fabrication of Mn ₃ O ₄ /carbonated bacterial cellulose with excellent catalytic performance upon ammonium perchlorate decomposition. <i>Materials Research Bulletin</i> , 2014, 60, 802-807.	2.7	28
154	In situ direct growth of single crystalline metal (Co, Ni) selenium nanosheets on metal fibers as counter electrodes toward low-cost, high-performance fiber-shaped dye-sensitized solar cells. <i>Nanoscale</i> , 2016, 8, 2304-2308.	2.8	28
155	Ferrous sulfide-assisted hollow carbon spheres as sulfur host for advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2017, 326, 1040-1047.	6.6	28
156	Single Pd <i>S</i> Sites <i>In Situ</i> Coordinated on CdS Surface as Efficient Hydrogen Autotransfer Shuttles for Highly Selective Visible-Light-Driven <i>N</i> Coupling. <i>ACS Catalysis</i> , 2022, 12, 4481-4490.	5.5	28
157	Multi-layered MoS ₂ phototransistors as high performance photovoltaic cells and self-powered photodetectors. <i>RSC Advances</i> , 2015, 5, 45239-45248.	1.7	27
158	Electrophoretic deposition of graphene-TiO ₂ hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. <i>Materials and Design</i> , 2016, 105, 352-358.	3.3	27
159	Series of ZnSn(OH) ₆ Polyhedra: Enhanced CO ₂ Dissociation Activation and Crystal Facet-Based Homojunction Boosting Solar Fuel Synthesis. <i>Inorganic Chemistry</i> , 2017, 56, 5704-5709.	1.9	27
160	Ultrathin LiFePO ₄ nanosheets self-assembled with reduced graphene oxide applied in high rate lithium ion batteries for energy storage. <i>Applied Energy</i> , 2017, 195, 1079-1085.	5.1	27
161	Unique homo <i>hetero</i> junction synergistic system consisting of stacked BiOCl nanoplate/Zn-Cr layered double hydroxide nanosheets promoting photocatalytic conversion of CO ₂ into solar fuels. <i>Chemical Communications</i> , 2018, 54, 5126-5129.	2.2	27
162	Pyridinic-nitrogen highly doped nanotubular carbon arrays grown on a carbon cloth for high-performance and flexible supercapacitors. <i>Nanoscale</i> , 2018, 10, 3981-3989.	2.8	27

#	ARTICLE	IF	CITATIONS
163	Bimetallic oxyhydroxide <i>in situ</i> derived from an Fe ₂ Co-MOF for efficient electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13271-13278.	5.2	27
164	Insight into the Kinetic Influence of Oxygen Vacancies on the WO ₃ Photoanodes for Solar Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6159-6165.	2.1	25
165	Synthesis of \pm -Fe ultrafine particles in a saturated salt solution/isopropanol/PVP microemulsion and their structural characterization. <i>Materials Research Bulletin</i> , 2000, 35, 53-58.	2.7	24
166	Hen eggwhite-mediated stack crystallization of calcium carbonate. <i>Journal of Crystal Growth</i> , 2010, 312, 831-836.	0.7	24
167	Thermally Stable All-Perovskite Tandem Solar Cells Fully Using Metal Oxide Charge Transport Layers and Tunnel Junction. <i>Solar Rrl</i> , 2021, 5, 2100814.	3.1	24
168	Aligned Nanocables: Controlled Sheathing of CuO Nanowires by a Self-Assembled Tubular Glycolipid. <i>Advanced Materials</i> , 2007, 19, 4194-4197.	11.1	23
169	Versatile nanobead-scaffolded N-SnO ₂ mesoporous microspheres: one-step synthesis and superb performance in dye-sensitized solar cell, gas sensor, and photocatalytic degradation of dye. <i>Journal of Materials Chemistry A</i> , 2013, 1, 524-531.	5.2	23
170	Engineering Interfaces to Steer Hole Dynamics of BiVO ₄ Photoanodes for Solar Water Oxidation. <i>Solar Rrl</i> , 2019, 3, 1900115.	3.1	23
171	Refined Z-scheme charge transfer in facet-selective BiVO ₄ /Au/CdS heterostructure for solar overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 8531-8538.	3.8	23
172	Nanostructured SnO ₂ photoanode-based dye-sensitized solar cells. <i>Science Bulletin</i> , 2014, 59, 2122-2134.	1.7	22
173	Boosted Water Oxidation Activity and Kinetics on BiVO ₄ Photoanodes with Multihigh-Index Crystal Facets. <i>Inorganic Chemistry</i> , 2018, 57, 15280-15288.	1.9	22
174	Self-assembly optimization of cadmium/molybdenum sulfide hybrids by cation coordination competition toward extraordinarily efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18396-18402.	5.2	22
175	Photoelectrochemical driving and clean synthesis of energetic salts of 5,5-azotetrazolate at room temperature. <i>Green Chemistry</i> , 2018, 20, 3722-3726.	4.6	22
176	A novel <i>in situ</i> simultaneous polymerization-hydrolysis technique for fabrication of polyacrylamide-semiconductor MS (M = Cd, Zn, Pb) nanocomposites. <i>Chemical Communications</i> , 1999, , 1229-1230.	2.2	21
177	Modulating memristive performance of hexagonal WO ₃ nanowire by water-oxidized hydrogen ion implantation. <i>Scientific Reports</i> , 2016, 6, 32712.	1.6	21
178	Cu ₃ Mo ₂ O ₉ /BiVO ₄ Heterojunction Films with Integrated Thermodynamic and Kinetic Advantages for Solar Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14082-14090.	3.2	21
179	Solution-Chemical Route to Generalized Synthesis of Metal Germanate Nanowires with Room-Temperature, Light-Driven Hydrogenation Activity of CO ₂ into Renewable Hydrocarbon Fuels. <i>Inorganic Chemistry</i> , 2014, 53, 359-364.	1.9	20
180	TiO ₂ nanosheet-anchoring Au nanoplates: high-energy facet and wide spectra surface plasmon-promoting photocatalytic efficiency and selectivity for CO ₂ reduction. <i>RSC Advances</i> , 2016, 6, 81510-81516.	1.7	20

#	ARTICLE	IF	CITATIONS
181	PbI ₂ heterogeneous-cap-induced crystallization for an efficient CH ₃ NH ₃ PbI ₃ layer in perovskite solar cells. <i>Chemical Communications</i> , 2017, 53, 5032-5035.	2.2	20
182	Theoretical and experimental studies on three water-stable, isostructural, paddlewheel based semiconducting metal-organic frameworks. <i>Dalton Transactions</i> , 2017, 46, 8204-8218.	1.6	20
183	MoO ₃ /BiVO ₄ heterojunction film with oxygen vacancies for efficient and stable photoelectrochemical water oxidation. <i>Journal of Materials Science</i> , 2019, 54, 671-682.	1.7	20
184	Reduced-graphene-oxide-loaded MoS ₂ @Ni ₃ S ₂ nanorod arrays on Ni foam as an efficient and stable electrocatalyst for the hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2019, 99, 22-26.	2.3	20
185	Achieving Direct Z-Scheme Charge Transfer through Constructing 2D/2D Fe ₂ O ₃ /CdS Heterostructure for Efficient Photocatalytic CO ₂ Conversion. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23142-23152.	1.5	20
186	State-of-the-art advancements of transition metal oxides as photoelectrode materials for solar water splitting. <i>Rare Metals</i> , 2022, 41, 2370-2386.	3.6	20
187	Boosting photocatalytic CO ₂ reduction via Schottky junction with ZnCr layered double hydroxide nanoflakes aggregated on 2D Ti ₃ C ₂ T _x cocatalyst. <i>Nanoscale</i> , 2022, 14, 7538-7546.	2.8	20
188	Preparation of Shell-Core Cu ₂ O@Cu Nanocomposite Particles and Cu Nanoparticles in a New Microemulsion System. <i>Journal of Colloid and Interface Science</i> , 1999, 220, 468-470.	5.0	19
189	A promising hybrid scaffold material: Bacterial cellulose in-situ assembling biomimetic lamellar CaCO ₃ . <i>Materials Letters</i> , 2013, 102-103, 91-93.	1.3	19
190	Integration of Fe _x S electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of Fe ₂ O ₃ photoanodes. <i>Chemical Communications</i> , 2018, 54, 13817-13820.	2.2	19
191	The interparticle distance limit for multiple exciton dissociation in PbS quantum dot solid films. <i>Nanoscale Horizons</i> , 2019, 4, 445-451.	4.1	19
192	Orientational Alignment of Oxygen Vacancies: Electric-Field-Inducing Conductive Channels in TiO ₂ Film to Boost Photocatalytic Conversion of CO ₂ into CO. <i>Nano Letters</i> , 2021, 21, 5060-5067.	4.5	19
193	Insight into the Improvement Mechanism of Copper Oxide/BiVO ₄ Heterojunction Photoanodes for Solar Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2019, 166, H513-H520.	1.3	18
194	Direct Z scheme-fashioned photoanode systems consisting of Fe ₂ O ₃ nanorod arrays and underlying thin Sb ₂ Se ₃ layers toward enhanced photoelectrochemical water splitting performance. <i>Nanoscale</i> , 2019, 11, 109-114.	2.8	18
195	A Novel in Situ Simultaneous Copolymerization~Decomposition Technique for Fabrication of Poly(acrylamide-co-styrene)-Semiconductor CdE (E = S, Se) Nanorod Nanocomposites. <i>Chemistry of Materials</i> , 1999, 11, 3411-3413.	3.2	17
196	Preparation and dielectric properties of SiC nanowires self-sacrificially templated by carbonated bacterial cellulose. <i>Materials Research Bulletin</i> , 2013, 48, 687-690.	2.7	17
197	Microstructure modulation of the CH ₃ NH ₃ PbI ₃ layer in perovskite solar cells by 2-propanol pre-wetting and annealing in a spray-assisted solution process. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11372-11380.	5.2	17
198	Robust, double-shelled ZnGa ₂ O ₄ hollow spheres for photocatalytic reduction of CO ₂ to methane. <i>Dalton Transactions</i> , 2017, 46, 10564-10568.	1.6	17

#	ARTICLE	IF	CITATIONS
199	Two-photon excited photoluminescence of single perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019, 151, 154201.	1.2	17
200	Dicationic tetraalkylammonium-based polymeric ionic liquid with star and four-arm topologies as advanced solid-state electrolyte for lithium metal battery. <i>Reactive and Functional Polymers</i> , 2019, 145, 104375.	2.0	17
201	BiVO ₄ tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective N ₂ coupling reaction of 5-amino-1 <i>H</i> -tetrazole. <i>Chemical Communications</i> , 2019, 55, 5635-5638.	2.2	17
202	Nitrogen-Doped Carbon Nanolayer Coated Hematite Nanorods for Efficient Photoelectrocatalytic Water Oxidation. <i>Applied Catalysis B: Environmental</i> , 2020, 275, 119113.	10.8	17
203	Polarized emission from single perovskite FAPbBr ₃ nanocrystals. <i>Journal of Luminescence</i> , 2020, 221, 117032.	1.5	17
204	Synthesis and characterization of NiP@TiO ₂ ultrafine composite particles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 77, 135-137.	1.7	16
205	Nanosheet-assembling Hierarchical Zinc Stannate Microspheres for Enhanced Efficiency of Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015, 152, 25-30.	2.6	16
206	Construction of Al-ZnO/CdS photoanodes modified with distinctive alumina passivation layer for improvement of photoelectrochemical efficiency and stability. <i>Nanoscale</i> , 2018, 10, 19621-19627.	2.8	16
207	Selective doping of titanium into double layered hematite nanorod arrays for improved photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019, 486, 312-322.	3.1	16
208	Synthesis and Optimization of Ti/Li/Al Ternary Layered Double Hydroxides for Efficient Photocatalytic Reduction of CO ₂ to CH ₄ . <i>Scientific Reports</i> , 2019, 9, 5659.	1.6	16
209	Formation of 3D interconnectively macro/mesoporous TiO ₂ sponges through gelation of lotus root starch toward CO ₂ photoreduction into hydrocarbon fuels. <i>RSC Advances</i> , 2014, 4, 43172-43177.	1.7	15
210	High-performance photodetectors based on bandgap engineered novel layer GaSe _{0.5} Te _{0.5} nanoflakes. <i>RSC Advances</i> , 2016, 6, 60862-60868.	1.7	15
211	Porous nanosheet-based hierarchical zinc oxide aggregations grown on compacted stainless steel meshes: Enhanced flexible dye-sensitized solar cells and photocatalytic activity. <i>Materials Research Bulletin</i> , 2016, 80, 191-199.	2.7	15
212	Simple fabrication of Z-scheme MgIn ₂ S ₄ /Bi ₂ WO ₆ hierarchical heterostructures for enhancing photocatalytic reduction of Cr(VI). <i>Catalysis Science and Technology</i> , 2021, 11, 6271-6280.	2.1	15
213	In situ cyclodextrin-based homogeneous incorporation of metal (M = Pd, Pt, Ru) nanoparticles into silica with bimodal pore structure. Electronic supplementary information (ESI) available: SEM images and isotherm N ₂ sorption of the cyclodextrin-based homogeneous incorporation of Pd nanoparticles into silica with bimodal pore structure. See http://www.rsc.org/suppdata/cc/b2/b210590j/ . <i>Chemical Communications</i> , 2003, 262-263.	2.2	14
214	Non-basic solution eco-routes to nano-scale NiO with different shapes: Synthesis and application. <i>Materials Chemistry and Physics</i> , 2011, 126, 494-499.	2.0	14
215	Enhanced Hot-Carrier Luminescence in Multilayer Reduced Graphene Oxide Nanospheres. <i>Scientific Reports</i> , 2013, 3, 2315.	1.6	14
216	Surface-state-mediated interfacial charge dynamics between carbon dots and ZnO toward highly promoting photocatalytic activity. <i>Journal of Chemical Physics</i> , 2020, 153, 044708.	1.2	14

#	ARTICLE	IF	CITATIONS
217	Pyridine-Diketopyrrolopyrrole-Based Novel Metal-Free Visible-Light Organophotoredox Catalyst for Atom-Transfer Radical Polymerization. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1068-1075.	1.1	14
218	3D Hydrangea-like $\text{InVO}_4/\text{Ti}_3\text{C}_2\text{T}_x$ Hierarchical Heterosystem Collaborating with 2D/2D Interface Interaction for Enhanced Photocatalytic CO_2 Reduction. <i>ChemNanoMat</i> , 2021, 7, 815-823.	1.5	14
219	<i>In situ</i> preparation of Bi_2S_3 nanoribbon-anchored BiVO_4 nanoscroll heterostructures for the catalysis of $\text{Cr}(\text{vi})$ photoreduction. <i>Catalysis Science and Technology</i> , 2020, 10, 3843-3847.	2.1	14
220	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO_2 Nanorod Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10815-10822.	2.1	14
221	One-Dimensional Confinement of CdS Nanodots and Subsequent Formation of CdS Nanowires by Using a Glycolipid Nanotube as a Ship-in-Bottle Scaffold. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18412-18416.	1.5	13
222	Near-infrared reflectance and thermal performance of $\text{Na}_2\text{V}_6\text{O}_{16} \cdot x\text{H}_2\text{O}$ nanoribbon as a novel cool brown pigment. <i>Dyes and Pigments</i> , 2015, 123, 242-247.	2.0	13
223	Fabrication of Oxygen-Doped Double-Shelled GaN Hollow Spheres toward Efficient Photoreduction of CO_2 . <i>Particle and Particle Systems Characterization</i> , 2016, 33, 583-588.	1.2	13
224	Self-templated preparation of hollow mesoporous TiN microspheres as sulfur host materials for advanced lithium-sulfur batteries. <i>Journal of Materials Science</i> , 2018, 53, 10363-10371.	1.7	13
225	Mimetic biomineralization matrix using bacterial cellulose hydrogel and egg white to prepare various morphologies of CaCO_3 . <i>CrystEngComm</i> , 2018, 20, 4536-4540.	1.3	13
226	Hollow $\text{BiVO}_4/\text{Bi}_2\text{S}_3$ cruciate heterostructures with enhanced visible-light photoactivity. <i>Catalysis Science and Technology</i> , 2019, 9, 182-187.	2.1	13
227	Room Temperature Surface Modification of Ultrathin FeOOH Cocatalysts on Fe_3O_4 Photoanodes for High Photoelectrochemical Water Splitting. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-7.	1.5	13
228	Direct Z-scheme hierarchical heterostructures of oxygen-doped $\text{g-C}_3\text{N}_4/\text{In}_2\text{S}_3$ with efficient photocatalytic $\text{Cr}(\text{vi})$ reduction activity. <i>Catalysis Science and Technology</i> , 2021, 11, 7963-7972.	2.1	13
229	A Convenient Ultraviolet Irradiation Technique for Fabrication of Silver-polymer Nanocomposites. <i>Chemistry Letters</i> , 1999, 28, 677-678.	0.7	12
230	Fabrication and characterization of ordered macroporous semiconductors CdS by colloidal crystal template. <i>Materials Research Bulletin</i> , 2003, 38, 723-729.	2.7	12
231	The maximum limiting performance improved counter electrode based on a porous fluorine doped tin oxide conductive framework for dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 4951.	2.8	12
232	Controlled crystallization of lamellar calcium carbonate crystals induced by solution of sticky rice polysaccharide (from <i>Oryza sativa</i>). <i>CrystEngComm</i> , 2014, 16, 11042-11049.	1.3	12
233	Influence of copper (II) on biomineralization of CaCO_3 and preparation of micron pearl-like biomimetic CaCO_3 . <i>Ceramics International</i> , 2019, 45, 14354-14359.	2.3	12
234	Magnetic field improved photoelectrochemical synthesis of 5,5'-azotetrazolate energetic salts and hydrogen in a hematite photoanode-based cell. <i>Electrochimica Acta</i> , 2020, 330, 135217.	2.6	12

#	ARTICLE	IF	CITATIONS
235	Domino Effect: Gold Electrocatalyzing Lithium Reduction to Accelerate Nitrogen Fixation. <i>Angewandte Chemie</i> , 2021, 133, 5317-5321.	1.6	12
236	Dimensional matched ultrathin BiVO ₄ /Ti ₃ C ₂ T _x heterosystem for efficient photocatalytic conversion of CO ₂ to methanol. <i>Materials Letters</i> , 2022, 306, 130937.	1.3	12
237	Indirect optical transitions in hybrid spheres with alternating layers of titania and graphene oxide nanosheets. <i>Optics Express</i> , 2012, 20, 28801.	1.7	11
238	Ultrathin nanosheet-anchored hexahedral prismatic Bi ₂ MoO ₆ arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO ₂ reduction and N ₂ fixation. <i>Catalysis Science and Technology</i> , 2019, 9, 7045-7050.	2.1	11
239	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020, 4, 2000094.	3.1	11
240	Convenient Synthesis of 5,5-azotetrazolate Energetic Salts through Electrochemical Oxidative-Coupling of 5-amino-1 <i>H</i> -tetrazole Under Mild Conditions. <i>Journal of the Electrochemical Society</i> , 2020, 167, 065503.	1.3	11
241	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO ₂ Reduction to CO. <i>Catalysts</i> , 2021, 11, 1115.	1.6	11
242	Synthesis of Fe ₃ O ₄ powder by a novel arc discharge method. <i>Materials Research Bulletin</i> , 2000, 35, 755-759.	2.7	10
243	Facile fabrication of three-dimensional mesoporous Si/SiC composites via one-step magnesiothermic reduction at relative low temperature. <i>Materials Research Bulletin</i> , 2013, 48, 4139-4145.	2.7	10
244	Electrical characterization of H ₂ S adsorption on hexagonal WO ₃ nanowire at room temperature. <i>Journal of Applied Physics</i> , 2014, 116, 164310.	1.1	10
245	PVA-templated Assembly of Pd Nanorod and Pd Fractal Pattern. <i>Journal of Nanoparticle Research</i> , 1999, 1, 479-483.	0.8	9
246	Preparation of nanocrystalline silver by the method of liquid-solid arc discharge combined with hydrothermal treatment. <i>Materials Research Bulletin</i> , 1999, 34, 1683-1688.	2.7	9
247	Synthesis of Nanowires and Coral-Shaped Nanostructures of Ag by an Ultraviolet Photo-Reduction Technique at Room Temperature. <i>Chemistry Letters</i> , 2001, 30, 1192-1193.	0.7	9
248	Patenting Activity in Synthesis of Lipid Nanotubes and Peptide Nanotubes. <i>Recent Patents on Nanotechnology</i> , 2007, 1, 21-28.	0.7	9
249	Two-Step Synthesis of Lamellar Vanadate via a Facile Hydrothermal Route and Enhancing the Photocatalytic Reduction of CO ₂ into Solar Fuel through Tuning of the Oxygen Vacancies by in Situ Vacuum Illumination Treatment. <i>ACS Applied Energy Materials</i> , 2018, 1, 6857-6864.	2.5	9
250	Lipid Nanotubes as Scaffold Toward Construction of One-Dimensional Nanostructures. <i>Science of Advanced Materials</i> , 2010, 2, 359-364.	0.1	9
251	Preparation of metal or alloy sulfide nanoparticles by electrochemical deposition. <i>Materials Research Bulletin</i> , 2000, 35, 1463-1468.	2.7	8
252	Controllable electrophoresis deposition of Ti ₂ mesoporous spheres onto Ti threads as photoanodes for fiber-shaped dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 65005-65009.	1.7	8

#	ARTICLE	IF	CITATIONS
253	Biomimetic interfacial assembly of CaCO ₃ microspheres using egg-white foam and their interaction with Sr ²⁺ . <i>Ceramics International</i> , 2017, 43, 12870-12875.	2.3	8
254	Typical strategies to facilitate charge transfer for enhanced oxygen evolution reaction: Case studies on hematite. <i>Journal of Semiconductors</i> , 2020, 41, 091709.	2.0	8
255	Unpaired Electron-Induced Wide-Range Light Absorption within Zn (or Cu) MOFs Containing Electron-Withdrawing Ligands: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5314-5322.	1.1	8
256	A Novel Ultraviolet Irradiation Photoreduction Technique for the Preparation of Single-Crystal Ag Nanorods and Ag Dendrites. , 1999, 11, 850.		8
257	Molybdenum Sulfide Quantum Dots Decorated on TiO ₂ for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2022, 5, 702-709.	2.4	8
258	A Novel in situ Ultraviolet Irradiation Polymerization-Photolysis Technique for Fabrication of Polyacrylamide-MS (M = Cd, Pb, Zn) Nanocomposites at Room Temperature. <i>Chemistry Letters</i> , 2000, 29, 1308-1309.	0.7	7
259	Fabrication and Electrochemical Characterization of Molecularly Alternating Self-Assembled Films and Capsules of Titania Nanosheets and Gold Nanoparticles. <i>Current Nanoscience</i> , 2007, 3, 155-160.	0.7	7
260	Photoconversion: Photocatalytic Conversion of CO ₂ into Renewable Hydrocarbon Fuels: State-of-the-Art Accomplishment, Challenges, and Prospects (Adv. Mater. 27/2014). <i>Advanced Materials</i> , 2014, 26, 4598-4598.	11.1	7
261	Photoelectrochemical Driving and Simultaneous Synthesis of 3-pyridinecarboxylic Acid and Hydrogen in WO ₃ Photoanode-Based Cell. <i>Journal of the Electrochemical Society</i> , 2019, 166, H662-H668.	1.3	7
262	±-Fe ₂ O ₃ /Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , 2021, 11, 5859-5867.	2.1	7
263	Dual-functional water splitting: Electro-fenton-like pollutants degradation from anode reaction and hydrogen fuel production from cathode reaction. <i>Electrochimica Acta</i> , 2021, 394, 139122.	2.6	7
264	Pushing the Limits of Energy Performance in Micron-Sized Thermite: Core-Shell Assembled Liquid Metal-Modified Al@Fe ₂ O ₃ Thermites. <i>ACS Applied Energy Materials</i> , 2021, 4, 11777-11786.	2.5	7
265	Electron pump strengthened facet engineering: Organic half-metallic C(CN) ₃ enclosed (100) facet exposed WO ₃ for efficient and selective photocatalytic nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121660.	10.8	7
266	Severe corrosion of copper in a highly alkaline egg white solution due to a biuret corrosion reaction. <i>Corrosion Science</i> , 2015, 94, 270-274.	3.0	6
267	A Compact and Smooth CH ₃ NH ₃ PbI ₃ Film: Investigation of Solvent Sorts and Concentrations of CH ₃ NH ₃ I towards Highly Efficient Perovskite Solar Cells. <i>Nanomaterials</i> , 2018, 8, 897.	1.9	6
268	Biomimetic assembly of multilevel hydroxyapatite using bacterial cellulose hydrogel as a reactor. <i>CrystEngComm</i> , 2019, 21, 4859-4863.	1.3	6
269	Egg white-assisted preparation of inorganic functional materials: A sustainable, eco-friendly, low-cost and multifunctional method. <i>Ceramics International</i> , 2019, 45, 23869-23889.	2.3	6
270	Hole dynamic acceleration over CdSO nanoparticles for high-efficiency solar hydrogen production with urea photolysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25650-25656.	5.2	6

#	ARTICLE	IF	CITATIONS
271	Few-Layer PbI ₂ Nanoparticle: A 2D Semiconductor with Lateral Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7863-7869.	2.1	6
272	Effects of Co Doping on the Growth and Photocatalytic Properties of ZnO Particles. <i>Molecules</i> , 2022, 27, 833.	1.7	6
273	Resorcinol-formaldehyde resin nanoparticles as surface charge transfer and separation sites for the improvement of BiVO ₄ film photoanodes™ performance in solar water oxidation. <i>Applied Surface Science</i> , 2022, 601, 154236.	3.1	6
274	Morphology control and optical properties of organic nanostructures based on thermotropic liquid crystalline benzoylated bacterial cellulose. <i>Carbohydrate Polymers</i> , 2010, 80, 551-554.	5.1	5
275	Egg-white Templating of Hierarchically Macroporous Architectures of SiO ₂ , TiO ₂ and C/SiCN Nanocables, and Photocatalytic Properties. <i>Current Nanoscience</i> , 2011, 7, 1004-1008.	0.7	5
276	Instant, template-free and fluorine-free synthesis of TiO ₂ nanotube arrays with a room-temperature solid-liquid arc discharge technique. <i>CrystEngComm</i> , 2012, 14, 7583.	1.3	5
277	In situ growth of zinc oxide nanoribbons within the interstices of a zinc stannate nanoplates network on compacted woven metal wires and their enhanced solar energy application. <i>Electrochimica Acta</i> , 2018, 262, 124-134.	2.6	5
278	Improving the photovoltaic effect by resistive switching. <i>Applied Physics Letters</i> , 2018, 113, 133901.	1.5	5
279	Dendrite growth of energetic material RDX. <i>Journal of Crystal Growth</i> , 2012, 351, 56-61.	0.7	4
280	Synthesis of hierarchical ordered porous functional materials using willow wickers as templates for recyclable photo-catalytic applications. <i>Journal of Porous Materials</i> , 2016, 23, 225-230.	1.3	4
281	Recycled photocatalyst and available photodetector based on ternary Bi ₆ Mo ₂ O ₁₅ sub-microcrystals. <i>Results in Physics</i> , 2019, 13, 102117.	2.0	4
282	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boosts Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020, 4, 2070062.	3.1	4
283	Construction of unique heterojunction photoanodes through <i>in situ</i> quasi-epitaxial growth of FeVO ₄ on Fe ₂ O ₃ nanorod arrays for enhanced photoelectrochemical performance. <i>Catalysis Science and Technology</i> , 2022, 12, 4372-4379.	2.1	4
284	A Simple In Situ Hydrogen Bond Interaction to Homogeneous Dispersion of Gold Nanoparticles in SiO ₂ Matrix Using Dendrimer as Template. <i>Chemistry Letters</i> , 2002, 31, 1170-1171.	0.7	3
285	Accurate Understanding the Catalytic Role of MnO ₂ in the Oxidative-Coupling of 2-naphthols into 1,1'-bi-2-naphthols. <i>Catalysis Letters</i> , 2021, 151, 901-908.	1.4	3
286	The Fabrication of CuInSe ₂ /Polyacrylamide Nanocomposites by a Convenient Simultaneous Polymerization-Decomposition Technique. <i>Chemistry Letters</i> , 2001, 30, 136-137.	0.7	2
287	Monodispersed Particles: Monodispersed Nb ₂ O ₅ Microspheres: Facile Synthesis, Air/Water Interfacial Self-Assembly, Nb ₂ O ₅ -Based Composite Films, and Their Selective NO ₂ Sensing (<i>Adv. Mater. Interfaces</i> 11/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	1.9	2
288	Room-Temperature Preparation of Cobalt-Based Electrocatalysts through Simple Solution Treatment for Selectively High-Efficiency Hydrogen Evolution Reaction in Alkaline or Acidic Medium. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-9.	1.5	2

#	ARTICLE	IF	CITATIONS
289	Photocatalytic oxidative-coupling of 5-amino-1H-tetrazole for the synthesis of 5,5-azotetrazolate energetic salts at mild conditions. <i>Catalysis Communications</i> , 2020, 136, 105923.	1.6	2
290	Large-scale Synthesis of Aligned MoO ₃ Nanobelt Arrays on Silicon Substrates for Nanoenergetics-on-a-chip. <i>Current Nanoscience</i> , 2014, 10, 566-572.	0.7	2
291	Research Progress in Photocatalytic Conversion of CO ₂ to Hydrocarbons. <i>Chinese Journal of Catalysis</i> , 2014, 32, 1565-1572.	6.9	2
292	Controllable synthesis of Co-Al layered double hydroxides with different anionic intercalation layers for the efficient removal of methyl orange. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 3004-3017.	1.2	2
293	Influence of charge transport layer on the crystallinity and charge extraction of pure tin-based halide perovskite film. <i>Journal of Energy Chemistry</i> , 2022, 69, 612-615.	7.1	2
294	Development of an alkaline electro-Fenton process based on the synthesis of H ₂ O ₂ in bicarbonate electrolytes. <i>Catalysis Science and Technology</i> , 2022, 12, 3436-3439.	2.1	2
295	Single-Photon Emission from Single Microplate MAPbI ₃ Nanocrystals with Ultranarrow Photoluminescence Linewidths and Exciton Fine Structures. <i>Advanced Optical Materials</i> , 0, , 2200606.	3.6	2
296	Ionic Liquids for the Convenient Synthesis of Functional Nanoparticles and Other Inorganic Nanostructures. <i>ChemInform</i> , 2004, 35, no.	0.1	1
297	Nanoparticle-based hierarchical zinc oxide chains for enhanced efficiency of dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 103030-103035.	1.7	0
298	Self-assembled 3D-hierarchical structure Cu ₂ ZnSnS ₄ photocathodes by tuning anion ratios in precursor solution. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 105102.	1.3	0
299	Non-isodiametric growth and confinement effect in the mineralisation of witherite. <i>Mineralogical Magazine</i> , 2020, 84, 524-532.	0.6	0
300	Fabrication and Characterization of Monolithic 3D Amorphous Silicon Inverse-opal Photonic Materials with Magnesiumthermic Reduction at a Lower Temperature. <i>Current Nanoscience</i> , 2016, 12, 482-486.	0.7	0
301	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO ₃ /Au/InS Nanowire Arrays. <i>Nano Letters</i> , 2016, , .	4.5	0