Yong Zhou

List of Publications by Year
in descending order

324 papers	24,182 citations	9968 70 h-index	7391 146 g-index
337 all docs	337 docs citations	337 times ranked	22381 citing authors

#	Article	IF	Citations
1	Hydrothermal Dehydration for the â€œGreenâ€•Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. Chemistry of Materials, 2009, 21, 2950-2956.	7.0	1,461
2	Photocatalytic Conversion of CO₂ into Renewable Hydrocarbon Fuels: Stateâ€ofâ€theâ€Art Accomplishment, Challenges, and Prospects. Advanced Materials, 2014, 26, 4607-4626.	24.1	1,387
3	Ionic Liquids for the Convenient Synthesis of Functional Nanoparticles and Other Inorganic Nanostructures. Angewandte Chemie - International Edition, 2004, 43, 4988-4992.	14.7	1,137
4	Stateâ€ofâ€theâ€Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. Advanced Functional Materials, 2015, 25, 998-1013.	16.4	733
5	Zâ€Scheme Photocatalytic Systems for Promoting Photocatalytic Performance: Recent Progress and Future Challenges. Advanced Science, 2016, 3, 1500389.	12.3	624
6	High-Yield Synthesis of Ultralong and Ultrathin Zn₂GeO₄ Nanoribbons toward Improved Photocatalytic Reduction of CO₂ into Renewable Hydrocarbon Fuel. Journal of the American Chemical Society, 2010, 132, 14385-14387.	14.6	615
7	Synthesis of Very Small TiO2Nanocrystals in a Room-Temperature Ionic Liquid and Their Self-Assembly toward Mesoporous Spherical Aggregates. Journal of the American Chemical Society, 2003, 125, 14960-14961.	14.6	583
8	Room-Temperature Ionic Liquids as Template to Monolithic Mesoporous Silica with Wormlike Pores via a Solâ^'Gel Nanocasting Technique. Nano Letters, 2004, 4, 477-481.	9.5	497
9	A Novel Ultraviolet Irradiation Photoreduction Technique for the Preparation of Single-Crystal Ag Nanorods and Ag Dendrites. Advanced Materials, 1999, 11, 850-852.	24.1	403
10	In situ construction of hierarchical WO3/g-C3N4 composite hollow microspheres as a Z-scheme photocatalyst for the degradation of antibiotics. Applied Catalysis B: Environmental, 2018, 220, 417-428.	20.7	396
11	Robust Hollow Spheres Consisting of Alternating Titania Nanosheets and Graphene Nanosheets with High Photocatalytic Activity for CO₂ Conversion into Renewable Fuels. Advanced Functional Materials, 2012, 22, 1215-1221.	16.4	376
12	An In Situ Simultaneous Reductionâ€Hydrolysis Technique for Fabrication of TiO₂â€Graphene 2D Sandwichâ€Like Hybrid Nanosheets: Grapheneâ€Promoted Selectivity of Photocatalyticâ€Driven Hydrogenation and Coupling of CO₂ into Methane and Ethane. Advanced Functional Materials, 2013, 23, 1743-1749.	16.4	366
13	High-Yield Synthesis of Ultrathin and Uniform Bi₂WO₆ Square Nanoplates Benefitting from Photocatalytic Reduction of CO₂ into Renewable Hydrocarbon Fuel under Visible Light. ACS Applied Materials & Interfaces, 2011, 3, 3594-3601.	8.3	364
14	Ultrathin, Single-Crystal WO₃ Nanosheets by Two-Dimensional Oriented Attachment toward Enhanced Photocatalystic Reduction of CO₂ into Hydrocarbon Fuels under Visible Light. ACS Applied Materials & Interfaces, 2012, 4, 3372-3377.	8.3	346
15	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H₂ Evolution and CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2017, 5, 7260-7268.	6.9	344
16	Versatile Grapheneâ€Promoting Photocatalytic Performance of Semiconductors: Basic Principles, Synthesis, Solar Energy Conversion, and Environmental Applications. Advanced Functional Materials, 2013, 23, 4996-5008.	16.4	343
17	Microstructuring of Graphene Oxide Nanosheets Using Direct Laser Writing. Advanced Materials, 2010, 22, 67-71.	24.1	321
18	A Roomâ€Temperature Reactiveâ€Template Route to Mesoporous ZnGa₂O₄ with Improved Photocatalytic Activity in Reduction of CO₂. Angewandte Chemie - International Edition, 2010, 49, 6400-6404.	14.7	310

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19	Hexahedron Prism-Anchored Octahedronal CeO₂: Crystal Facet-Based Homojunction Promoting Efficient Solar Fuel Synthesis. Journal of the American Chemical Society, 2015, 137, 9547-9550.	14.6	299
20	Multilayer Hybrid Films Consisting of Alternating Graphene and Titania Nanosheets with Ultrafast Electron Transfer and Photoconversion Properties. Advanced Functional Materials, 2009, 19, 3638-3643.	16.4	296
21	Formation of Uniform CuO Nanorods by Spontaneous Aggregation:Â Selective Synthesis of CuO, Cu2O, and Cu Nanoparticles by a Solidâ"Liquid Phase Arc Discharge Process. Journal of Physical Chemistry B, 2005, 109, 14011-14016.	2.7	285
22	Preparation and characterization of Pt supported on graphene with enhanced electrocatalytic activity in fuel cell. Journal of Power Sources, 2011, 196, 1012-1018.	8.0	263
23	A Novel Ultraviolet Irradiation Technique for Shape-Controlled Synthesis of Gold Nanoparticles at Room Temperature. Chemistry of Materials, 1999, 11, 2310-2312.	7.0	255
24	Urchin-like hierarchical CoZnAl-LDH/RGO/g-C3N4 hybrid as a Z-scheme photocatalyst for efficient and selective CO2 reduction. Applied Catalysis B: Environmental, 2019, 255, 117771.	20.7	227
25	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO₃/Au/In₂S₃ Nanowire Arrays. Nano Letters, 2016, 16, 5547-5552.	9.5	223
26	Preparation of Highly Ordered Monolithic Super-Microporous Lamellar Silica with a Room-Temperature Ionic Liquid as Template via the Nanocasting Technique. Advanced Materials, 2003, 15, 1452-1455.	24.1	215
27	Enhanced Photocatalytic Performance through Magnetic Field Boosting Carrier Transport. ACS Nano, 2018, 12, 3351-3359.	15.2	215
28	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO₄ Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO₂ into CO. Journal of the American Chemical Society, 2019, 141, 4209-4213.	14.6	211
29	A Series of Highly Ordered, Super-Microporous, Lamellar Silicas Prepared by Nanocasting with Ionic Liquids. Chemistry of Materials, 2004, 16, 544-550.	7.0	207
30	Formation of Silver Nanowires by a Novel Solidâ"Liquid Phase Arc Discharge Method. Chemistry of Materials, 1999, 11, 545-546.	7.0	180
31	High-yield synthesis of millimetre-long, semiconducting carbon nitride nanotubes with intense photoluminescence emission and reproducible photoconductivity. Nanoscale, 2012, 4, 3687.	5.8	171
32	Polyhedral 30â€Faceted BiVO₄ Microcrystals Predominantly Enclosed by Highâ€Index Planes Promoting Photocatalytic Waterâ€Splitting Activity. Advanced Materials, 2018, 30, 1703119.	24.1	167
33	Vacancy-defect modulated pathway of photoreduction of CO2 on single atomically thin AgInP2S6 sheets into olefiant gas. Nature Communications, 2021, 12, 4747.	13.2	162
34	Recent Advances in Ionic Liquids for Synthesis of Inorganic Nanomaterials. Current Nanoscience, 2005, 1, 35-42.	1.3	160
35	Au@TiO₂yolkâ€"shell hollow spheres for plasmon-induced photocatalytic reduction of CO₂to solar fuel via a local electromagnetic field. Nanoscale, 2015, 7, 14232-14236.	5.8	155
36	Single-Crystalline, Ultrathin ZnGa₂O₄ Nanosheet Scaffolds To Promote Photocatalytic Activity in CO₂ Reduction into Methane. ACS Applied Materials & Interfaces, 2014, 6, 2356-2361.	8.3	152

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37	Foamâ€“like Co9S8/Ni3S2 heterostructure nanowire arrays for efficient bifunctional overall waterâ€“splitting. Applied Catalysis B: Environmental, 2019, 253, 246-252.	20.7	152
38	Controllable synthesis of nanocrystalline CdS with different morphologies and particle sizes by a novel solvothermal process. Journal of Materials Chemistry, 1999, 9, 1283-1287.	6.7	149
39	Zn₂GeO₄crystal splitting toward sheaf-like, hyperbranched nanostructures and photocatalytic reduction of CO₂into CH₄under visible light after nitridation. Journal of Materials Chemistry, 2012, 22, 2033-2038.	6.7	145
40	Photocatalytic reduction of CO₂over Ag/TiO₂nanocomposites prepared with a simple and rapid silver mirror method. Nanoscale, 2016, 8, 11870-11874.	5.8	142
41	All-solid-state Z-scheme system arrays of Fe₂V₄O₁₃/RGO/CdS for visible light-driving photocatalytic CO₂ reduction into renewable hydrocarbon fuel. Chemical Communications, 2015, 51, 800-803.	4.2	140
42	Construction of unique two-dimensional MoS₂â€“TiO₂ hybrid nanojunctions: MoS₂ as a promising cost-effective cocatalyst toward improved photocatalytic reduction of CO₂ to methanol. Nanoscale, 2017, 9, 9065-9070.	5.8	138
43	Beyond C₃N₄ Ï€-conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. Chemical Society Reviews, 2021, 50, 2147-2172.	40.3	134
44	Lipid Nanotubes: A Unique Template To Create Diverse One-Dimensional Nanostructures. Chemistry of Materials, 2008, 20, 625-633.	7.0	131
45	Multi-channeled hierarchical porous carbon incorporated Co 3 O 4 nanopillar arrays as 3D binder-free electrode for high performance supercapacitors. Nano Energy, 2016, 20, 94-107.	16.5	126
46	Room-temperature photosynthesis of propane from CO2 with Cu single atoms on vacancy-rich TiO2. Nature Communications, 2023, 14, .	13.2	125
47	Synthesis of Novel Stable Nanometer-Sized Metal (M = Pd, Au, Pt) Colloids Protected by a Ï€-Conjugated Polymer. Langmuir, 2002, 18, 277-283.	3.7	124
48	Preparation and rate capability of Li4Ti5O12 hollow-sphere anode material. Journal of Power Sources, 2007, 166, 514-518.	8.0	124
49	Elegant Construction of ZnIn₂S₄/BiVO₄ Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2021, 13, 15092-15100.	8.3	124
50	Preparation of a novel core-shell nanostructured gold colloid-silk fibroin bioconjugate by the protein in situ redox technique at room temperature. Chemical Communications, 2001, , 2518-2519.	4.2	115
51	A novel tailored bimodal porous silica with well-defined inverse opal microstructure and super-microporous lamellar nanostructureElectronic supplementary information (ESI) available: Fig. S1. See http://www.rsc.org/suppdata/cc/b3/b307444g/. Chemical Communications, 2003, , 2564.	4.2	115
52	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO2: Design and dependent performance for solar energy conversion and environment applications. Materials Today, 2020, 33, 75-86.	18.1	114
53	One-step growth of CoNi2S4 nanoribbons on carbon fibers as platinum-free counter electrodes for fiber-shaped dye-sensitized solar cells with high performance: Polymorph-dependent conversion efficiency. Nano Energy, 2015, 11, 697-703.	16.5	109
54	A Roomâ€Temperature Reactiveâ€Template Route to Mesoporous ZnGa₂O₄ with Improved Photocatalytic Activity in Reduction of CO₂. Angewandte Chemie, 2010, 122, 6544-6548.	2.1	106

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55	Preparation and Characterization of a Novel Cocrystal Explosive. Crystal Growth and Design, 2011, 11, 1759-1765.	3.2	105
56	Making Patterns on Graphene. Advanced Materials, 2010, 22, 3615-3620.	24.1	101
57	Highly Flexible Self-Powered Organolead Trihalide Perovskite Photodetectors with Gold Nanowire Networks as Transparent Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 23868-23875.	8.3	100
58	Bismuth Vacancy-Induced Efficient CO₂ Photoreduction in BiOCl Directly from Natural Air: A Progressive Step toward Photosynthesis in Nature. Nano Letters, 2021, 21, 10260-10266.	9.5	99
59	Enriching Hot Electrons via NIRâ€Photonâ€Excited Plasmon in WS₂@Cu Hybrids for Fullâ€Spectrum Solar Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1804055.	16.4	98
60	Boosting O₂ Reduction and H₂O Dehydrogenation Kinetics: Surface Nâ€Hydroxymethylation of gâ€C₃N₄ Photocatalysts for the Efficient Production of H₂O₂. Advanced Functional Materials, 2022, 32, .	16.4	97
61	Hexagonal Nanoplate-Textured Micro-Octahedron Zn₂SnO₄: Combined Effects toward Enhanced Efficiencies of Dye-Sensitized Solar Cell and Photoreduction of CO₂ into Hydrocarbon Fuels. Crystal Growth and Design, 2012, 12, 1476-1481.	3.2	92
62	Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting CO₂ into Solar Fuels. Advanced Functional Materials, 2013, 23, 1839-1845.	16.4	91
63	Enhanced photovoltaic performance of a dye-sensitized solar cell using grapheneâ€“TiO2 photoanode prepared by a novel in situ simultaneous reduction-hydrolysis technique. Nanoscale, 2013, 5, 3481.	5.8	89
64	Multilayer Hybrid Films of Titania Semiconductor Nanosheet and Silver Metal Fabricated via Layer-by-Layer Self-Assembly and Subsequent UV Irradiation. Chemistry of Materials, 2006, 18, 1235-1239.	7.0	87
65	In³⁺-doped BiVO₄ photoanodes with passivated surface states for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2018, 6, 10456-10465.	10.5	87
66	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. Nano Today, 2019, 28, 100763.	12.3	81
67	Magnetic Field-Assisted Photoelectrochemical Water Splitting: The Photoelectrodes Have Weaker Nonradiative Recombination of Carrier. ACS Catalysis, 2021, 11, 1242-1247.	11.7	76
68	An Ionâ€Exchange Phase Transformation to ZnGa₂O₄ Nanocube Towards Efficient Solar Fuel Synthesis. Advanced Functional Materials, 2013, 23, 758-763.	16.4	75
69	3D hierarchical architecture collaborating with 2D/2D interface interaction in NiAl-LDH/Ti3C2 nanocomposite for efficient and selective photoconversion of CO2. Journal of Energy Chemistry, 2021, 59, 9-18.	13.4	74
70	Nitrated graphene oxide and its catalytic activity in thermal decomposition of ammonium perchlorate. Materials Research Bulletin, 2014, 50, 73-78.	5.4	73
71	Rational construction of a CdS/reduced graphene oxide/TiO₂coreâ€“shell nanostructure as an all-solid-state Z-scheme system for CO₂photoreduction into solar fuels. RSC Advances, 2015, 5, 88409-88413.	3.7	73
72	Hollow spheres consisting of Ti_{0.91}O₂/CdS nanohybrids for CO₂ photofixation. Chemical Communications, 2015, 51, 13354-13357.	4.2	72

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73	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured Î±-Fe₂O₃/g-C₃N₄ Z-Scheme System for Efficient CO₂ Reduction into Solar Fuels. ACS Applied Energy Materials, 2020, 3, 6561-6572.	5.3	71
74	Facile Face-Down Annealing Triggered Remarkable Texture Development in CH₃NH₃PbI₃ Films for High-Performance Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 6104-6113.	8.3	70
75	Domino Effect: Gold Electrocatalyzing Lithium Reduction to Accelerate Nitrogen Fixation. Angewandte Chemie - International Edition, 2021, 60, 5257-5261.	14.7	69
76	Rational and scalable fabrication of high-quality WO3/CdS core/shell nanowire arrays for photoanodes toward enhanced charge separation and transport under visible light. Nanoscale, 2013, 5, 11933.	5.8	68
77	Instant Preparation of Self-Assembled Metal-Complexed Lipid Nanotubes That Act as Templates to Produce Metal-Oxide Nanotubes. Advanced Materials, 2007, 19, 242-246.	24.1	67
78	Monodispersed Nb₂O₅ Microspheres: Facile Synthesis, Air/Water Interfacial Selfâ€Assembly, Nb₂O₅â€Based Composite Films, and Their Selective NO₂ Sensing. Advanced Materials Interfaces, 2015, 2, 1500167.	4.1	66
79	Helical Arrays of CdS Nanoparticles Tracing on a Functionalized Chiral Template of Glycolipid Nanotubes. Chemistry of Materials, 2006, 18, 403-406.	7.0	65
80	Unique Zn-doped SnO2 nano-echinus with excellent electron transport and light harvesting properties as photoanode materials for high performance dye-sensitized solar cell. CrystEngComm, 2012, 14, 6462.	2.4	65
81	Preparation, Optical Spectroscopy, and Electrochemical Studies of Novel Ï€-Conjugated Polymer-Protected Stable PbS Colloidal Nanoparticles in a Nonaqueous Solution. Langmuir, 2002, 18, 5287-5292.	3.7	61
82	Fabrication of hierarchically assembled microspheres consisting of nanoporous ZnO nanosheets for high-efficiency dye-sensitized solar cells. Journal of Materials Chemistry, 2012, 22, 14341.	6.7	61
83	Electrodeposited amorphous cobalt phosphosulfide on Ni foams for highly efficient overall water splitting. Journal of Power Sources, 2019, 431, 182-188.	8.0	61
84	Anchoring of black phosphorus quantum dots onto WO₃ nanowires to boost photocatalytic CO₂ conversion into solar fuels. Chemical Communications, 2020, 56, 7777-7780.	4.2	61
85	Double-shelled plasmonic Ag-TiO2 hollow spheres toward visible light-active photocatalytic conversion of CO2 into solar fuel. APL Materials, 2015, 3, .	4.8	59
86	Construction of an all-solid-state artificial Z-scheme system consisting of Bi₂WO₆/Au/CdS nanostructure for photocatalytic CO₂ reduction into renewable hydrocarbon fuel. Nanotechnology, 2017, 28, 274002.	2.7	58
87	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%. ACS Energy Letters, 2020, 5, 3224-3236.	18.3	57
88	Preparation of Ï€-conjugated polymer-protected gold nanoparticles in stable colloidal form. Chemical Communications, 2001, , 613-614.	4.2	56
89	Vertically building Zn2SnO4 nanowire arrays on stainless steel mesh toward fabrication of large-area, flexible dye-sensitized solar cells. Nanoscale, 2012, 4, 3490.	5.8	56
90	Improved Surface Charge Transfer in MoO3/BiVO4 Heterojunction Film for Photoelectrochemical Water Oxidation. Electrochimica Acta, 2017, 257, 181-191.	5.4	56

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91	Synthesis of a mesoporous single crystal Ga2O3 nanoplate with improved photoluminescence and high sensitivity in detecting CO. Chemical Communications, 2010, 46, 6388.	4.2	55
92	Prussian blue analogue-derived Ni and Co bimetallic oxide nanoplate arrays block-built from porous and hollow nanocubes for the efficient oxygen evolution reaction. Nanoscale, 2019, 11, 11765-11773.	5.8	55
93	Gram-Scale Synthesis of Graphene Quantum Dots from Single Carbon Atoms Growth via Energetic Material Deflagration. Chemistry of Materials, 2015, 27, 4319-4327.	7.0	54
94	Organic half-metal derived erythroid-like BiVO4/hm-C4N3 Z-Scheme photocatalyst: Reduction sites upgrading and rate-determining step modulation for overall CO2 and H2O conversion. Applied Catalysis B: Environmental, 2021, 295, 120277.	20.7	52
95	Na₂V₆O₁₆Â·xH₂O nanoribbons: large-scale synthesis and visible-light photocatalytic activity of CO₂into solar fuels. Nanoscale, 2014, 6, 1896-1900.	5.8	51
96	WO3 homojunction photoanode: Integrating the advantages of WO3 different facets for efficient water oxidation. Journal of Energy Chemistry, 2021, 56, 37-45.	13.4	51
97	One-step growth of 3D CoNi₂S₄ nanorods and cross-linked NiCo₂S₄ nanosheet arrays on carbon paper as anodes for high-performance lithium ion batteries. Chemical Communications, 2016, 52, 5258-5261.	4.2	49
98	Decorating CoSe2 hollow nanospheres on reduced graphene oxide as advanced sulfur host material for performance enhanced lithium-sulfur batteries. Nano Research, 2019, 12, 2743-2748.	10.6	49
99	Broad spectral response photodetector based on individual tin-doped CdS nanowire. AIP Advances, 2014, 4, .	1.3	48
100	Thermodynamic and Kinetic Influence of Oxygen Vacancies on the Solar Water Oxidation Reaction of Î±-Fe₂O₃ Photoanodes. ACS Applied Materials & Interfaces, 2020, 12, 11625-11634.	8.3	48
101	A convenient ultraviolet irradiation technique for in situ synthesis of CdS nanocrystallites at room temperature. Journal of Materials Chemistry, 2000, 10, 607-608.	6.7	46
102	Surfactantâ€Assisted Preparation of Novel Layered Silver Bromideâ€Based Inorganic/Organic Nanosheets by Pulsed Laser Ablation in Aqueous Media. Advanced Functional Materials, 2007, 17, 3554-3561.	16.4	46
103	Synthesis of one-molecule-thick single-crystalline nanosheets of energetic material for high-sensitive force sensor. Scientific Reports, 2012, 2, 698.	3.5	46
104	Al-ZnO/CdS Photoanode Modified with a Triple Functions Conformal TiO2 Film for Enhanced Photoelectrochemical Efficiency and Stability. Applied Catalysis B: Environmental, 2019, 255, 117738.	20.7	46
105	Preparation of an Fe₂Ni MOF on nickel foam as an efficient and stable electrocatalyst for the oxygen evolution reaction. RSC Advances, 2019, 9, 33558-33562.	3.7	46
106	Stateâ€ofâ€theâ€Art Progress in Diverse Black Phosphorusâ€Based Structures: Basic Properties, Synthesis, Stability, Photoâ€and Electrocatalysisâ€Driven Energy Conversion. Advanced Functional Materials, 2021, 31, 2005197.	16.4	46
107	Porous, single crystalline titanium nitride nanoplates grown on carbon fibers: excellent counter electrodes for low-cost, high performance, fiber-shaped dye-sensitized solar cells. Chemical Communications, 2014, 50, 14321-14324.	4.2	45
108	Flux synthesis of regular Bi₄TaO₈Cl square nanoplates exhibiting dominant exposure surfaces of {001} crystal facets for photocatalytic reduction of CO₂ to methane. Nanoscale, 2018, 10, 1905-1911.	5.8	44

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109	In situ no-slot joint integration of half-metallic C(CN)3 cocatalyst into g-C3N4 scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO2 into CO. Applied Catalysis B: Environmental, 2020, 264, 118470.	20.7	44
110	Direct Growth of Fe₂V₄O₁₃ Nanoribbons on a Stainlessâ€Steel Mesh for Visibleâ€Light Photoreduction of CO₂ into Renewable Hydrocarbon Fuel and Degradation of Gaseous Isopropyl Alcohol. ChemPlusChem, 2013, 78, 274-278.	3.1	42
111	Hollow InVO₄ Nanocuboid Assemblies toward Promoting Photocatalytic N₂ Conversion Performance. Advanced Materials, 2021, 33, e2006780.	24.1	42
112	Antimicrobial Nanotubes Consisting of Agâ€Embedded Peptidic Lipidâ€Bilayer Membranes as Delivery Vehicles. Advanced Materials, 2009, 21, 1742-1745.	24.1	41
113	Controllable growth of dendritic ZnO nanowire arrays on a stainless steel mesh towards the fabrication of large area, flexible dye-sensitized solar cells. Nanoscale, 2012, 4, 5454.	5.8	41
114	Simple method for the fluorinated functionalization of graphene oxide. RSC Advances, 2013, 3, 3881.	3.7	41
115	Stainless steel mesh-supported three-dimensional hierarchical SnO2/Zn2SnO4 composite for the applications in solar cell, gas sensor, and photocatalysis. Applied Surface Science, 2020, 502, 144113.	6.3	41
116	Fluorescent Nanotubes Consisting of CdS-Embedded Bilayer Membranes of a Peptide Lipid. Advanced Materials, 2007, 19, 1055-1058.	24.1	40
117	Necklace-like Chains of Hybrid Nanospheres Consisting of Pd Nanocystals and Peptidic Lipids. Journal of the American Chemical Society, 2009, 131, 2456-2457.	14.6	40
118	Electrocatalytic fixation of N₂ into NO₃^{â”}: electron transfer between oxygen vacancies and loaded Au in Nb₂O_{5â”x} nanobelts to promote ambient nitrogen oxidation. Journal of Materials Chemistry A, 2021, 9, 17442-17450.	10.5	40
119	Synthesis of highly crystalline In2Ge2O7(En) hybrid sub-nanowires with ultraviolet photoluminescence emissions and their selective photocatalytic reduction of CO2 into renewable fuel. RSC Advances, 2012, 2, 3247.	3.7	39
120	Porous ZnO nanosheet arrays constructed on weaved metal wire for flexible dye-sensitized solar cells. Nanoscale, 2013, 5, 5102.	5.8	39
121	Ultralong metahewettite CaV 6 O 16 Â·3H 2 O nanoribbons as novel host materials for lithium storage: Towards high-rate and excellent long-term cyclability. Nano Energy, 2016, 22, 38-47.	16.5	39
122	Bi₂MoO₆ Nanostrip Networks for Enhanced Visibleâ€Light Photocatalytic Reduction of CO₂ to CH₄. ChemPhysChem, 2017, 18, 3240-3244.	2.3	39
123	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust Fe₂O₃ Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 10141-10146.	8.3	39
124	Lead Selenide Colloidal Quantum Dot Solar Cells Achieving High Open-Circuit Voltage with One-Step Deposition Strategy. Journal of Physical Chemistry Letters, 2018, 9, 3598-3603.	4.9	39
125	Single Pdâ€“S_x Sites In Situ Coordinated on CdS Surface as Efficient Hydrogen Autotransfer Shuttles for Highly Selective Visible-Light-Driven Câ€“N Coupling. ACS Catalysis, 2022, 12, 4481-4490.	11.7	39
126	Fiber dye-sensitized solar cells consisting of TiO2 nanowires arrays on Ti thread as photoanodes through a low-cost, scalable route. Journal of Materials Chemistry A, 2013, 1, 11790.	10.5	38

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127	Metallic molybdenum sulfide nanodots as platinum-alternative co-catalysts for photocatalytic hydrogen evolution. Journal of Catalysis, 2019, 374, 237-245.	6.5	38
128	Lipid Nanotubes: Formation, Templating Nanostructures and Drug Nanocarriers. Critical Reviews in Solid State and Materials Sciences, 2008, 33, 183-196.	10.8	37
129	Enhanced photoelectrochemical water oxidation on WO3 nanoflake films by coupling with amorphous TiO2. Electrochimica Acta, 2018, 283, 871-881.	5.4	37
130	Boosting the hydrogen evolution performance of a ternary Mo_xCo_{1â^'x}P nanowire array by tuning the Mo/Co ratio. Journal of Materials Chemistry A, 2019, 7, 14842-14848.	10.5	37
131	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.	5.4	36
132	Three-dimensional Bi2MoO6/TiO2 array heterojunction photoanode modified with cobalt phosphate cocatalyst for high-efficient photoelectrochemical water oxidation. Catalysis Today, 2019, 335, 262-268.	4.9	36
133	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. Advanced Science, 2022, 9, e2103744.	12.3	36
134	Synthesis of single-crystalline, porous TaON microspheres toward visible-light photocatalytic conversion of CO₂ into liquid hydrocarbon fuels. RSC Advances, 2016, 6, 90792-90796.	3.7	35
135	Facile room-temperature surface modification of unprecedented FeB co-catalysts on Fe2O3 nanorod photoanodes for high photoelectrochemical performance. Journal of Catalysis, 2017, 352, 113-119.	6.5	35
136	Enhanced Photoelectrochemical Water Oxidation Performance on BiVO₄ by Coupling of CoMoO₄ as a Hole-Transfer and Conversion Cocatalyst. ACS Applied Materials & Interfaces, 2018, 10, 42207-42216.	8.3	35
137	Engineering Selfâ€Reconstruction via Flexible Components in Layered Double Hydroxides for Superiorâ€Evolving Performance. Small, 2021, 17, e2101671.	11.1	35
138	In situ construction of a 2D/2D heterostructured ZnIn₂S₄/Bi₂MoO₆Z-scheme system for boosting the photoreduction activity of Cr(<scp>vi</scp>). Catalysis Science and Technology, 2021, 11, 3885-3893.	4.2	35
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