

Xin Li

List of Publications by Year in descending order

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162
papers

41,930
citations

5876

81
h-index

5519

163
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166
all docs

166
docs citations

166
times ranked

36843
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Synthesis of High-Quality and Uniform Graphene Films on Copper Foils. <i>Science</i> , 2009, 324, 1312-1314.	6.0	10,000
2	Chemically Derived, Ultrasoft Graphene Nanoribbon Semiconductors. <i>Science</i> , 2008, 319, 1229-1232.	6.0	4,504
3	A review on g-C ₃ N ₄ -based photocatalysts. <i>Applied Surface Science</i> , 2017, 391, 72-123.	3.1	2,318
4	N-Doping of Graphene Through Electrothermal Reactions with Ammonia. <i>Science</i> , 2009, 324, 768-771.	6.0	2,020
5	Engineering heterogeneous semiconductors for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2485-2534.	5.2	1,609
6	Cocatalysts for Selective Photoreduction of CO ₂ into Solar Fuels. <i>Chemical Reviews</i> , 2019, 119, 3962-4179.	23.0	1,591
7	Hierarchical photocatalysts. <i>Chemical Society Reviews</i> , 2016, 45, 2603-2636.	18.7	1,517
8	Graphene in Photocatalysis: A Review. <i>Small</i> , 2016, 12, 6640-6696.	5.2	836
9	CdS/Graphene Nanocomposite Photocatalysts. <i>Advanced Energy Materials</i> , 2015, 5, 1500010.	10.2	694
10	Photocatalysis fundamentals and surface modification of TiO ₂ nanomaterials. <i>Chinese Journal of Catalysis</i> , 2015, 36, 2049-2070.	6.9	458
11	Design and fabrication of semiconductor photocatalyst for photocatalytic reduction of CO ₂ to solar fuel. <i>Science China Materials</i> , 2014, 57, 70-100.	3.5	446
12	Graphene-based heterojunction photocatalysts. <i>Applied Surface Science</i> , 2018, 430, 53-107.	3.1	386
13	A review on heterogeneous photocatalysis for environmental remediation: From semiconductors to modification strategies. <i>Chinese Journal of Catalysis</i> , 2022, 43, 178-214.	6.9	382
14	A review on 2D MoS ₂ cocatalysts in photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2020, 56, 89-121.	5.6	364
15	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. <i>Nano Letters</i> , 2015, 15, 5137-5142.	4.5	358
16	Highly enhanced photocatalytic degradation of methylene blue over the indirect all-solid-state Z-scheme g-C ₃ N ₄ -RGO-TiO ₂ nanoheterojunctions. <i>Applied Surface Science</i> , 2017, 405, 60-70.	3.1	328
17	Constructing Multifunctional Metallic Ni Interface Layers in the g-C ₃ N ₄ Nanosheets/Amorphous NiS Heterojunctions for Efficient Photocatalytic H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14031-14042.	4.0	319
18	Enhanced photocatalytic H ₂ evolution over noble-metal-free NiS cocatalyst modified CdS nanorods/g-C ₃ N ₄ heterojunctions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18244-18255.	5.2	306

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19	Adsorption of CO ₂ on heterostructure CdS(Bi ₂ S ₃)/TiO ₂ nanotube photocatalysts and their photocatalytic activities in the reduction of CO ₂ to methanol under visible light irradiation. <i>Chemical Engineering Journal</i> , 2012, 180, 151-158.	6.6	302
20	Constructing 2D layered hybrid CdS nanosheets/MoS ₂ heterojunctions for enhanced visible-light photocatalytic H ₂ generation. <i>Applied Surface Science</i> , 2017, 391, 580-591.	3.1	284
21	Nanostructured CdS for efficient photocatalytic H ₂ evolution: A review. <i>Science China Materials</i> , 2020, 63, 2153-2188.	3.5	281
22	Constructing low-cost Ni ₃ C/twin-crystal Zn _{0.5} Cd _{0.5} S heterojunction/homojunction nanohybrids for efficient photocatalytic H ₂ evolution. <i>Chinese Journal of Catalysis</i> , 2021, 42, 25-36.	6.9	272
23	A new heterojunction in photocatalysis: S-scheme heterojunction. <i>Chinese Journal of Catalysis</i> , 2021, 42, 667-669.	6.9	260
24	In-situ construction of metallic Ni ₃ C@Ni core-shell cocatalysts over g-C ₃ N ₄ nanosheets for shell-thickness-dependent photocatalytic H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120104.	10.8	258
25	Noble-metal-free Ni ₃ C cocatalysts decorated CdS nanosheets for high-efficiency visible-light-driven photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 218-228.	10.8	248
26	Integration of 2D layered CdS/WO ₃ S-scheme heterojunctions and metallic Ti ₃ C ₂ MXene-based Ohmic junctions for effective photocatalytic H ₂ generation. <i>Chinese Journal of Catalysis</i> , 2022, 43, 359-369.	6.9	246
27	Bifunctional Cu ₃ P Decorated g-C ₃ N ₄ Nanosheets as a Highly Active and Robust Visible-Light Photocatalyst for H ₂ Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4026-4036.	3.2	243
28	Multi-functional Ni ₃ C cocatalyst/g-C ₃ N ₄ nanoheterojunctions for robust photocatalytic H ₂ evolution under visible light. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13110-13122.	5.2	241
29	Ni-based photocatalytic H ₂ -production cocatalysts ² . <i>Chinese Journal of Catalysis</i> , 2019, 40, 240-288.	6.9	239
30	Enhanced visible light photocatalytic H ₂ production over Z-scheme g-C ₃ N ₄ nanosheets/WO ₃ nanorods nanocomposites loaded with Ni(OH) ₂ cocatalysts. <i>Chinese Journal of Catalysis</i> , 2017, 38, 240-252.	6.9	237
31	Rationally designed Ta ₃ N ₅ /BiOCl S-scheme heterojunction with oxygen vacancies for elimination of tetracycline antibiotic and Cr(VI): Performance, toxicity evaluation and mechanism insight. <i>Journal of Materials Science and Technology</i> , 2022, 123, 177-190.	5.6	232
32	In situ construction of a C ₃ N ₅ nanosheet/Bi ₂ WO ₆ nanodot S-scheme heterojunction with enhanced structural defects for the efficient photocatalytic removal of tetracycline and Cr(VI). <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2479-2497.	3.0	217
33	Fabricating the Robust g-C ₃ N ₄ Nanosheets/Carbons/NiS Multiple Heterojunctions for Enhanced Photocatalytic H ₂ Generation: An Insight into the Trifunctional Roles of Nanocarbons. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2224-2236.	3.2	214
34	Design and application of active sites in g-C ₃ N ₄ -based photocatalysts. <i>Journal of Materials Science and Technology</i> , 2020, 56, 69-88.	5.6	211
35	Amorphous Co ₃ O ₄ modified CdS nanorods with enhanced visible-light photocatalytic H ₂ -production activity. <i>Dalton Transactions</i> , 2015, 44, 1680-1689.	1.6	204
36	In situ one-pot fabrication of g-C ₃ N ₄ nanosheets/NiS cocatalyst heterojunction with intimate interfaces for efficient visible light photocatalytic H ₂ generation. <i>Applied Surface Science</i> , 2018, 430, 208-217.	3.1	204

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37	Enhanced visible-light H ₂ evolution of g-C ₃ N ₄ photocatalysts via the synergetic effect of amorphous NiS and cheap metal-free carbon black nanoparticles as co-catalysts. <i>Applied Surface Science</i> , 2015, 358, 204-212.	3.1	203
38	Facile fabrication of TaON/Bi ₂ MoO ₆ core-shell S-scheme heterojunction nanofibers for boosting visible-light catalytic levofloxacin degradation and Cr(VI) reduction. <i>Chemical Engineering Journal</i> , 2022, 428, 131158.	6.6	203
39	Enhanced Solar Fuel H ₂ Generation over g-C ₃ N ₄ Nanosheet Photocatalysts by the Synergetic Effect of Noble Metal-Free Co ₂ P Cocatalyst and the Environmental Phosphorylation Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 816-826.	3.2	201
40	Integrating 2D/2D CdS/Fe ₂ O ₃ ultrathin bilayer Z-scheme heterojunction with metallic NiS nanosheet-based ohmic-junction for efficient photocatalytic H ₂ evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118619.	10.8	199
41	Two-Dimensional Transition Metal MXene-Based Photocatalysts for Solar Fuel Generation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3488-3494.	2.1	193
42	Engineering MP _x (M = Fe, Co or Ni) interface electron transfer channels for boosting photocatalytic H ₂ evolution over g-C ₃ N ₄ /MoS ₂ layered heterojunctions. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 250-259.	10.8	188
43	Highly efficient visible-light photocatalytic H ₂ evolution over 2D CdS/Cu ₇ S ₄ layered heterojunctions. <i>Chinese Journal of Catalysis</i> , 2020, 41, 31-40.	6.9	177
44	In Situ Fabrication of Robust Cocatalyst-Free CdS/g-C ₃ N ₄ 2D Step-Scheme Heterojunctions for Highly Active H ₂ Evolution. <i>Solar Rrl</i> , 2020, 4, 1900423.	3.1	176
45	Strongly coupled 2D-2D nanojunctions between P-doped Ni ₂ S (Ni ₂ SP) cocatalysts and CdS nanosheets for efficient photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2020, 390, 124496.	6.6	174
46	Review on design and evaluation of environmental photocatalysts. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	170
47	Surface and interface engineering of hierarchical photocatalysts. <i>Applied Surface Science</i> , 2019, 471, 43-87.	3.1	170
48	Encapsulation of Ni ₃ Fe Nanoparticles in N-Doped Carbon Nanotube-Grafted Carbon Nanofibers as High-Efficiency Hydrogen Evolution Electrocatalysts. <i>Advanced Functional Materials</i> , 2018, 28, 1805828.	7.8	168
49	Heterogeneous sulfur-free hydrodeoxygenation catalysts for selectively upgrading the renewable bio-oils to second generation biofuels. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3762-3797.	8.2	164
50	Synthesis and photoactivity of nanostructured CdS-TiO ₂ composite catalysts. <i>Catalysis Today</i> , 2014, 225, 64-73.	2.2	159
51	Sulfur-doped g-C ₃ N ₄ /g-C ₃ N ₄ isotype step-scheme heterojunction for photocatalytic H ₂ evolution. <i>Journal of Materials Science and Technology</i> , 2022, 118, 15-24.	5.6	159
52	Porous graphitic carbon nitride for solar photocatalytic applications. <i>Nanoscale Horizons</i> , 2020, 5, 765-786.	4.1	152
53	C ₆₀ -Decorated CdS/TiO ₂ Mesoporous Architectures with Enhanced Photostability and Photocatalytic Activity for H ₂ Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4533-4540.	4.0	148
54	Photoreduction of CO ₂ to methanol over Bi ₂ S ₃ /CdS photocatalyst under visible light irradiation. <i>Journal of Natural Gas Chemistry</i> , 2011, 20, 413-417.	1.8	145

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55	Synthesis, properties, and applications of black titanium dioxide nanomaterials. <i>Science Bulletin</i> , 2017, 62, 431-441.	4.3	134
56	Low-Cost Ni ₃ B/Ni(OH) ₂ as an Ecofriendly Hybrid Cocatalyst for Remarkably Boosting Photocatalytic H ₂ Production over g-C ₃ N ₄ Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13140-13150.	3.2	131
57	Photocatalytic reduction of carbon dioxide to methanol by Cu ₂ O/SiC nanocrystallite under visible light irradiation. <i>Journal of Natural Gas Chemistry</i> , 2011, 20, 145-150.	1.8	127
58	Graphitic carbon nitride nanosheets for microwave absorption. <i>Materials Today Physics</i> , 2018, 5, 78-86.	2.9	127
59	Improved visible-light photocatalytic H ₂ generation over CdS nanosheets decorated by NiS ₂ and metallic carbon black as dual earth-abundant cocatalysts. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1970-1980.	6.9	124
60	Earth-abundant NiS co-catalyst modified metal-free mpg-C ₃ N ₄ /CNT nanocomposites for highly efficient visible-light photocatalytic H ₂ evolution. <i>Dalton Transactions</i> , 2015, 44, 18260-18269.	1.6	123
61	Enhanced photocatalytic H ₂ evolution based on a Ti ₃ C ₂ /Zn _{0.7} Cd _{0.3} S/Fe ₂ O ₃ Ohmic/S-scheme hybrid heterojunction with cascade 2D coupling interfaces. <i>Chemical Engineering Journal</i> , 2022, 429, 132587.	6.6	121
62	Co _{1.4} Ni _{0.6} P cocatalysts modified metallic carbon black/g-C ₃ N ₄ nanosheet Schottky heterojunctions for active and durable photocatalytic H ₂ production. <i>Applied Surface Science</i> , 2019, 466, 393-400.	3.1	117
63	Tracking S-scheme Charge Transfer Pathways in Mo ₂ C/CdS H ₂ Evolution Photocatalysts. <i>Solar Rrl</i> , 2021, 5, 2100177.	3.1	117
64	Enhanced photocatalytic degradation and adsorption of methylene blue via TiO ₂ nanocrystals supported on graphene-like bamboo charcoal. <i>Applied Surface Science</i> , 2015, 358, 425-435.	3.1	115
65	Earth-abundant WC nanoparticles as an active noble-metal-free co-catalyst for the highly boosted photocatalytic H ₂ production over g-C ₃ N ₄ nanosheets under visible light. <i>Catalysis Science and Technology</i> , 2017, 7, 1193-1202.	2.1	114
66	Reduced Graphene Oxide-Modified Carbon Nanotube/Polyimide Film Supported MoS ₂ Nanoparticles for Electrocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2015, 25, 2693-2700.	7.8	113
67	Markedly enhanced visible-light photocatalytic H ₂ generation over g-C ₃ N ₄ nanosheets decorated by robust nickel phosphide (Ni ₁₂ P ₅) cocatalysts. <i>Dalton Transactions</i> , 2017, 46, 1794-1802.	1.6	111
68	Improved charge transfer by size-dependent plasmonic Au on C ₃ N ₄ for efficient photocatalytic oxidation of RhB and CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2019, 40, 928-939.	6.9	104
69	Heterogeneous Photocatalytic Activation of Persulfate for the Removal of Organic Contaminants in Water: A Critical Review. <i>ACS ES&T Engineering</i> , 2022, 2, 527-546.	3.7	101
70	Effects of pore sizes of porous silica gels on desorption activation energy of water vapour. <i>Applied Thermal Engineering</i> , 2007, 27, 869-876.	3.0	99
71	Molecularly imprinted Ag/Ag ₃ VO ₄ /g-C ₃ N ₄ Z-scheme photocatalysts for enhanced preferential removal of tetracycline. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 271-286.	5.0	98
72	Carbon Nanotube-Supported Cu ₃ P as High-Efficiency and Low-Cost Cocatalysts for Exceptional Semiconductor-Free Photocatalytic H ₂ Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3243-3250.	3.2	96

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73	Carbonâ€“Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. <i>Small</i> , 2021, 17, e2005231.	5.2	96
74	Microwave absorbing property and complex permittivity and permeability of epoxy composites containing Ni-coated and Ag filled carbon nanotubes. <i>Composites Science and Technology</i> , 2008, 68, 2902-2908.	3.8	95
75	Efficient visible-light photocatalytic H ₂ evolution over metal-free g-C ₃ N ₄ co-modified with robust acetylene black and Ni(OH) ₂ as dual co-catalysts. <i>RSC Advances</i> , 2016, 6, 31497-31506.	1.7	94
76	ZnWO ₄ -ZnIn ₂ S ₄ S-scheme heterojunction for enhanced photocatalytic H ₂ evolution. <i>Journal of Materials Science and Technology</i> , 2022, 122, 231-242.	5.6	93
77	Regulating interfacial morphology and charge-carrier utilization of Ti ₃ C ₂ modified all-sulfide CdS/ZnIn ₂ S ₄ S-scheme heterojunctions for effective photocatalytic H ₂ evolution. <i>Journal of Materials Science and Technology</i> , 2022, 112, 85-95.	5.6	92
78	Bridging the g-C ₃ N ₄ Nanosheets and Robust CuS Cocatalysts by Metallic Acetylene Black Interface Mediators for Active and Durable Photocatalytic H ₂ Production. <i>ACS Applied Energy Materials</i> , 2018, 1, 2232-2241.	2.5	88
79	Catalytic oxidation of toluene over copper and manganese based catalysts: Effect of water vapor. <i>Catalysis Communications</i> , 2011, 14, 15-19.	1.6	87
80	Visible-light induced photocatalytic oxidative desulfurization using BiVO ₄ /C ₃ N ₄ @SiO ₂ with air/cumene hydroperoxide under ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 72-79.	10.8	87
81	State-of-the-art recent progress in MXene-based photocatalysts: a comprehensive review. <i>Nanoscale</i> , 2021, 13, 9463-9504.	2.8	87
82	Construction of a multi-interfacial-electron transfer scheme for efficient CO ₂ photoreduction: a case study using CdIn ₂ S ₄ micro-flower spheres modified with Au nanoparticles and reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18707-18714.	5.2	86
83	Synthesis of porous ZnS, ZnO and ZnS/ZnO nanosheets and their photocatalytic properties. <i>RSC Advances</i> , 2017, 7, 30956-30962.	1.7	85
84	Ultra-thin SiC layer covered graphene nanosheets as advanced photocatalysts for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10999-11005.	5.2	80
85	Bridging Effect of Sâ€“C Bond for Boosting Electron Transfer over Cubic Hollow CoS/g-C ₃ N ₄ Heterojunction toward Photocatalytic Hydrogen Production. <i>Langmuir</i> , 2022, 38, 3244-3256.	1.6	78
86	Facile preparation of bioactive nanoparticle/poly(μ -caprolactone) hierarchical porous scaffolds via 3D printing of high internal phase Pickering emulsions. <i>Journal of Colloid and Interface Science</i> , 2019, 545, 104-115.	5.0	76
87	Metal-free carbon nanotubeâ€“SiC nanowire heterostructures with enhanced photocatalytic H ₂ evolution under visible light irradiation. <i>Catalysis Science and Technology</i> , 2015, 5, 2798-2806.	2.1	74
88	Fabricated rGO-modified Ag ₂ S nanoparticles/g-C ₃ N ₄ nanosheets photocatalyst for enhancing photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 468-478.	5.0	74
89	Copper(II) imidazolate frameworks as highly efficient photocatalysts for reduction of CO ₂ into methanol under visible light irradiation. <i>Journal of Solid State Chemistry</i> , 2013, 203, 154-159.	1.4	73
90	Synthesis and visible light photocatalytic behavior of WO ₃ (core)/Bi ₂ WO ₆ (shell). <i>Journal of Molecular Catalysis A</i> , 2014, 385, 106-111.	4.8	73

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91	Design of metal-organic frameworks (MOFs)-based photocatalyst for solar fuel production and photo-degradation of pollutants. <i>Chinese Journal of Catalysis</i> , 2021, 42, 872-903.	6.9	73
92	Remarkable positive effect of Cd(OH) ₂ on CdS semiconductor for visible-light photocatalytic H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2018, 229, 8-14.	10.8	72
93	Hydrothermal synthesis and characterization of novel PbWO ₄ microspheres with hierarchical nanostructures and enhanced photocatalytic performance in dye degradation. <i>Chemical Engineering Journal</i> , 2013, 219, 86-95.	6.6	68
94	Hydrothermal synthesis of FeWO ₄ -graphene composites and their photocatalytic activities under visible light. <i>Applied Surface Science</i> , 2015, 351, 474-479.	3.1	68
95	One-pot hydrothermal synthesis of SrTiO ₃ -reduced graphene oxide composites with enhanced photocatalytic activity for hydrogen production. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 70-76.	4.8	65
96	BiVO ₄ /TiO ₂ heterojunction with enhanced photocatalytic activities and photoelectrochemistry performances under visible light illumination. <i>Materials Research Bulletin</i> , 2019, 117, 35-40.	2.7	64
97	Preparation, characterization and photocatalytic activity of the neodymium-doped TiO ₂ nanotubes. <i>Applied Surface Science</i> , 2009, 255, 8624-8628.	3.1	63
98	Enhanced enzymatic hydrolysis of sugarcane bagasse with ferric chloride pretreatment and surfactant. <i>Bioresource Technology</i> , 2017, 229, 96-103.	4.8	63
99	Facile Construction of Dual p-n Junctions in CdS/Cu ₂ O/ZnO Photoanode with Enhanced Charge Carrier Separation and Transfer Ability. <i>ACS Omega</i> , 2017, 2, 852-863.	1.6	62
100	Assembling Ti ₃ C ₂ MXene into ZnIn ₂ S ₄ -NiSe ₂ S-scheme heterojunction with multiple charge transfer channels for accelerated photocatalytic H ₂ generation. <i>Chemical Engineering Journal</i> , 2022, 447, 137488.	6.6	62
101	Enhancing enzymatic hydrolysis of sugarcane bagasse by ferric chloride catalyzed organosolv pretreatment and Tween 80. <i>Bioresource Technology</i> , 2018, 258, 295-301.	4.8	61
102	Fabrication of hierarchical copper sulfide/bismuth tungstate p-n heterojunction with two-dimensional (2D) interfacial coupling for enhanced visible-light photocatalytic degradation of glyphosate. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 293-302.	5.0	59
103	Tracking charge transfer pathways in SrTiO ₃ /CoP/Mo ₂ C nanofibers for enhanced photocatalytic solar fuel production. <i>Chinese Journal of Catalysis</i> , 2022, 43, 507-518.	6.9	59
104	Rational Construction of Strongly Coupled Metal-Metal Oxide-Graphene Nanostructure with Excellent Electrocatalytic Activity and Durability. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10258-10264.	4.0	57
105	Facilitating the enzymatic saccharification of pulped bamboo residues by degrading the remained xylan and lignin-carbohydrates complexes. <i>Bioresource Technology</i> , 2015, 192, 471-477.	4.8	54
106	Carbon-coated Cu-TiO ₂ nanocomposite with enhanced photostability and photocatalytic activity. <i>Applied Surface Science</i> , 2019, 466, 254-261.	3.1	54
107	Electrodeposition of Cu ₂ O/g-C ₃ N ₄ heterojunction film on an FTO substrate for enhancing visible light photoelectrochemical water splitting. <i>Chinese Journal of Catalysis</i> , 2017, 38, 365-371.	6.9	51
108	One-pot synthesis of ZnS nanowires/Cu ₇ S ₄ nanoparticles/reduced graphene oxide nanocomposites for supercapacitor and photocatalysis applications. <i>Dalton Transactions</i> , 2019, 48, 2442-2454.	1.6	46

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109	Electrochemical and optical biosensors based on multifunctional MXene nanoplateforms: Progress and prospects. <i>Talanta</i> , 2021, 235, 122726.	2.9	46
110	Synthesis and characterization of Ag/TiO ₂ -B nanosquares with high photocatalytic activity under visible light irradiation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 344-348.	1.7	45
111	Constructing 1D/2D Schottky-Based Heterojunctions between Mn _{0.2} /Cd _{0.8} S Nanorods and Ti ₃ C ₂ Nanosheets for Boosted Photocatalytic H ₂ Evolution. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020, .	2.2	44
112	Synthesis BiVO ₄ modified by CuO supported onto bentonite for molecular oxygen photocatalytic oxidative desulfurization of fuel under visible light. <i>Fuel</i> , 2021, 290, 120066.	3.4	39
113	Covalent organic frameworks: Fundamentals, mechanisms, modification, and applications in photocatalysis. <i>Chem Catalysis</i> , 2022, 2, 2157-2228.	2.9	39
114	Topological morphology conversion towards SnO ₂ /SiC hollow sphere nanochains with efficient photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014, 50, 1070-1073.	2.2	37
115	Constructed Z-Scheme g-C ₃ N ₄ /Ag ₃ VO ₄ /rGO Photocatalysts with Multi-interfacial Electron-Transfer Paths for High Photoreduction of CO ₂ . <i>Inorganic Chemistry</i> , 2021, 60, 1755-1766.	1.9	37
116	Intensive photocatalytic activity enhancement of Bi ₅ O ₇ I via coupling with band structure and content adjustable BiOBr _x . <i>Science Bulletin</i> , 2018, 63, 219-227.	4.3	36
117	Effects of ferric chloride pretreatment and surfactants on the sugar production from sugarcane bagasse. <i>Bioresource Technology</i> , 2018, 265, 93-101.	4.8	36
118	Dynamics and isotherms of water vapor sorption on mesoporous silica gels modified by different salts. <i>Kinetics and Catalysis</i> , 2010, 51, 754-761.	0.3	35
119	Synthesis of yolk/shell Fe ₃ O ₄ @polydopamine@graphene@Pt nanocomposite with high electrocatalytic activity for fuel cells. <i>Journal of Power Sources</i> , 2014, 246, 868-875.	4.0	35
120	Design and preparation of CdS/H-3D-TiO ₂ /Pt-wire photocatalysis system with enhanced visible-light driven H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 928-937.	3.8	35
121	Adsorption Equilibrium and Desorption Activation Energy of Water Vapor on Activated Carbon Modified by an Oxidation and Reduction Treatment. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3164-3169.	1.0	34
122	Graphitied carbon-coated bimetallic FeCu nanoparticles as original g-C ₃ N ₄ cocatalysts for improving photocatalytic activity. <i>Applied Surface Science</i> , 2019, 492, 571-578.	3.1	34
123	Branch-like Cd _{1-x} Se/Cu ₂ O@Cu step-scheme heterojunction for CO ₂ photoreduction. <i>Materials Today Physics</i> , 2022, 26, 100729.	2.9	31
124	Photocatalytic Hydrogen Production over CdS Nanomaterials: An Interdisciplinary Experiment for Introducing Undergraduate Students to Photocatalysis and Analytical Chemistry. <i>Journal of Chemical Education</i> , 2019, 96, 1224-1229.	1.1	30
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