

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4713987/xin-li-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

158
papers

32,048
citations

67
h-index

166
g-index

166
ext. papers

37,459
ext. citations

9.5
avg, IF

7.77
L-index

#	Paper	IF	Citations
158	Large-area synthesis of high-quality and uniform graphene films on copper foils. <i>Science</i> , 2009 , 324, 1312-13	33.3	8900
157	Chemically derived, ultrasmooth graphene nanoribbon semiconductors. <i>Science</i> , 2008 , 319, 1229-32	33.3	4081
156	N-doping of graphene through electrothermal reactions with ammonia. <i>Science</i> , 2009 , 324, 768-71	33.3	1842
155	A review on g-C ₃ N ₄ -based photocatalysts. <i>Applied Surface Science</i> , 2017 , 391, 72-123	6.7	1687
154	Engineering heterogeneous semiconductors for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2485-2534	13	1271
153	Hierarchical photocatalysts. <i>Chemical Society Reviews</i> , 2016 , 45, 2603-36	58.5	1216
152	Cocatalysts for Selective Photoreduction of CO into Solar Fuels. <i>Chemical Reviews</i> , 2019 , 119, 3962-4179	68.1	965
151	Graphene in Photocatalysis: A Review. <i>Small</i> , 2016 , 12, 6640-6696	11	605
150	CdS/Graphene Nanocomposite Photocatalysts. <i>Advanced Energy Materials</i> , 2015 , 5, 1500010	21.8	584
149	Photocatalysis fundamentals and surface modification of TiO ₂ nanomaterials. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 2049-2070	11.3	383
148	Design and fabrication of semiconductor photocatalyst for photocatalytic reduction of CO ₂ to solar fuel. <i>Science China Materials</i> , 2014 , 57, 70-100	7.1	350
147	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. <i>Nano Letters</i> , 2015 , 15, 5137-42	11.5	314
146	Graphene-based heterojunction photocatalysts. <i>Applied Surface Science</i> , 2018 , 430, 53-107	6.7	293
145	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	6.7	276
144	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	13	265
143	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	14.7	265
142	Constructing Multifunctional Metallic Ni Interface Layers in the g-CN Nanosheets/Amorphous NiS Heterojunctions for Efficient Photocatalytic H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14031-14042	9.5	256

141	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	6.7	245
140	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	11.3	211
139	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	21.8	190
138	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	13	190
137	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	8.3	189
136	A review on 2D MoS ₂ cocatalysts in photocatalytic H ₂ production. <i>Journal of Materials Science and Technology</i> , 2020 , 56, 89-121	9.1	182
135	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	8.3	180
134	Amorphous Co ²⁺ -modified CdS nanorods with enhanced visible-light photocatalytic H ₂ production activity. <i>Dalton Transactions</i> , 2015 , 44, 1680-9	4.3	177
133	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	6.7	176
132	Ni-based photocatalytic H ₂ -production cocatalysts ² . <i>Chinese Journal of Catalysis</i> , 2019 , 40, 240-288	11.3	173
131	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	6.7	172
130	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	8.3	170
129	Synthesis and photoactivity of nanostructured CdS/TiO ₂ composite catalysts. <i>Catalysis Today</i> , 2014 , 225, 64-73	5.3	146
128	Surface and interface engineering of hierarchical photocatalysts. <i>Applied Surface Science</i> , 2019 , 471, 43-87	8.7	135
127	Nanostructured CdS for efficient photocatalytic H ₂ evolution: A review. <i>Science China Materials</i> , 2020 , 63, 2153-2188	7.1	131
126	Review on design and evaluation of environmental photocatalysts. <i>Frontiers of Environmental Science and Engineering</i> , 2018 , 12, 1	5.8	131
125	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, 4533-40	9.5	126
124	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	11.3	126

123	Two-Dimensional Transition Metal MXene-Based Photocatalysts for Solar Fuel Generation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3488-3494	6.4	125
122	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	15.6	124
121	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	14.7	115
120	A new heterojunction in photocatalysis: S-scheme heterojunction. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 667-669	11.3	115
119	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		114
118	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	21.8	114
117	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	21.8	112
116	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	11.3	111
115	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		109
114	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	9.1	108
113	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	16.2	108
112	Highly efficient visible-light photocatalytic H ₂ evolution over 2D/2D CdS/Cu ₇ S ₄ layered heterojunctions. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 31-40	11.3	107
111	Markedly enhanced visible-light photocatalytic H ₂ generation over g-CN nanosheets decorated by robust nickel phosphide (NiP) cocatalysts. <i>Dalton Transactions</i> , 2017 , 46, 1794-1802	4.3	102
110	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, 18260-9	4.3	102
109	In Situ Fabrication of Robust Cocatalyst-Free CdS/g-C ₃ N ₄ 2D/2D Step-Scheme Heterojunctions for Highly Active H ₂ Evolution. <i>Solar Rrl</i> , 2020 , 4, 1900423	7.1	102
108	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	8.3	101
107	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	15.6	99
106	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	21.8	96

105	Graphitic carbon nitride nanosheets for microwave absorption. <i>Materials Today Physics</i> , 2018 , 5, 78-86	8	95
104	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	6.7	94
103	Synthesis, properties, and applications of black titanium dioxide nanomaterials. <i>Science Bulletin</i> , 2017 , 62, 431-441	10.6	92
102	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	5.5	92
101	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	6.7	90
100	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	3.7	85
99	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	14.7	83
98	Porous graphitic carbon nitride for solar photocatalytic applications. <i>Nanoscale Horizons</i> , 2020 , 5, 765-786	6.8	79
97	Effects of pore sizes of porous silica gels on desorption activation energy of water vapour. <i>Applied Thermal Engineering</i> , 2007 , 27, 869-876	5.8	79
96	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	8.6	77
95	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	7.1.8	76
94	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	11.3	74
93	Catalytic oxidation of toluene over copper and manganese based catalysts: Effect of water vapor. <i>Catalysis Communications</i> , 2011 , 14, 15-19	3.2	73
92	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	8.3	68
91	Metal-free carbon nanotube@SiC nanowire heterostructures with enhanced photocatalytic H ₂ evolution under visible light irradiation. <i>Catalysis Science and Technology</i> , 2015 , 5, 2798-2806	5.5	67
90	Ultra-thin SiC layer covered graphene nanosheets as advanced photocatalysts for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10999-11005	13	65
89	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	6.1	64
88	Synthesis of porous ZnS, ZnO and ZnS/ZnO nanosheets and their photocatalytic properties. <i>RSC Advances</i> , 2017 , 7, 30956-30962	3.7	61

87	Molecularly imprinted Ag/AgVO/g-CN Z-scheme photocatalysts for enhanced preferential removal of tetracycline. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 271-286	9.3	60
86	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		60
85	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	14.7	60
84	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	3.3	58
83	Preparation, characterization and photocatalytic activity of the neodymium-doped TiO ₂ nanotubes. <i>Applied Surface Science</i> , 2009 , 255, 8624-8628	6.7	58
82	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	21.8	56
81	Rational construction of strongly coupled metal-metal oxide-graphene nanostructure with excellent electrocatalytic activity and durability. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10258-64	8.5	55
80	Fabricated rGO-modified AgS nanoparticles/g-CN nanosheets photocatalyst for enhancing photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 468-478	9.3	53
79	Enhanced enzymatic hydrolysis of sugarcane bagasse with ferric chloride pretreatment and surfactant. <i>Bioresource Technology</i> , 2017 , 229, 96-103	11	52
78	Facile preparation of bioactive nanoparticle/poly(ϵ -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	9.3	51
77	Hydrothermal synthesis of FeWO ₄ -graphene composites and their photocatalytic activities under visible light. <i>Applied Surface Science</i> , 2015 , 351, 474-479	6.7	51
76	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		50
75	Facile Construction of Dual p-n Junctions in CdS/CuO/ZnO Photoanode with Enhanced Charge Carrier Separation and Transfer Ability. <i>ACS Omega</i> , 2017 , 2, 852-863	3.9	46
74	Tracking S-Scheme Charge Transfer Pathways in Mo ₂ C/CdS H ₂ -Evolution Photocatalysts. <i>Solar Rrl</i> , 2021 , 5, 2100177	7.1	46
73	A review on heterogeneous photocatalysis for environmental remediation: From semiconductors to modification strategies. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 178-214	11.3	45
72	Facilitating the enzymatic saccharification of pulped bamboo residues by degrading the remained xylan and lignin-carbohydrates complexes. <i>Bioresource Technology</i> , 2015 , 192, 471-7	11	44
71	Enhancing enzymatic hydrolysis of sugarcane bagasse by ferric chloride catalyzed organosolv pretreatment and Tween 80. <i>Bioresource Technology</i> , 2018 , 258, 295-301	11	44
70	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	5.1	41

69	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	3.1	41
68	Carbon-coated Cu-TiO ₂ nanocomposite with enhanced photostability and photocatalytic activity. <i>Applied Surface Science</i> , 2019 , 466, 254-261	6.7	40
67	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	13	39
66	Carbon-Graphitic Carbon Nitride Hybrids for Heterogeneous Photocatalysis. <i>Small</i> , 2021 , 17, e2005231	11	37
65	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	14.7	37
64	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	11.3	36
63	One-pot synthesis of ZnS nanowires/CuS nanoparticles/reduced graphene oxide nanocomposites for supercapacitor and photocatalysis applications. <i>Dalton Transactions</i> , 2019 , 48, 2442-2454	4.3	35
62	Intensive photocatalytic activity enhancement of Bi ₅ O ₇ I via coupling with band structure and content adjustable BiOBr _x I _{1-x} . <i>Science Bulletin</i> , 2018 , 63, 219-227	10.6	32
61	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	6.7	32
60	Topological morphology conversion towards SnO ₂ /SiC hollow sphere nanochains with efficient photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014 , 50, 1070-3	5.8	31
59	Dynamics and isotherms of water vapor sorption on mesoporous silica gels modified by different salts. <i>Kinetics and Catalysis</i> , 2010 , 51, 754-761	1.5	31
58	State-of-the-art recent progress in MXene-based photocatalysts: a comprehensive review. <i>Nanoscale</i> , 2021 , 13, 9463-9504	7.7	31
57	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	8.9	30
56	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	2.8	30
55	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	9.3	30
54	Effects of ferric chloride pretreatment and surfactants on the sugar production from sugarcane bagasse. <i>Bioresource Technology</i> , 2018 , 265, 93-101	11	27
53	Intersubunit Electron Transfer (IET) in Quantum Dots/Graphene Complex: What Features Does IET Endow the Complex with?. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15833-15838	3.8	25
52	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	11.3	25

51	Graphitied carbon-coated bimetallic FeCu nanoparticles as original g-C3N4 cocatalysts for improving photocatalytic activity. <i>Applied Surface Science</i> , 2019 , 492, 571-578	6.7	24
50	Effects of Textural Properties and Surface Oxygen Content of Activated Carbons on the Desorption Activation Energy of Water. <i>Adsorption Science and Technology</i> , 2006 , 24, 363-374	3.6	24
49	Heterostructured CoO/3D-TiO2 nanorod arrays for photoelectrochemical water splitting hydrogen production. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 455-461	2.6	23
48	Constructing 1D/2D Schottky-Based Heterojunctions between Mn0.2Cd0.8S Nanorods and Ti3C2 Nanosheets for Boosted Photocatalytic H2 Evolution. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2020 , 2010059-0	3.8	23
47	Facile synthesis of oil-soluble Fe3O4 nanoparticles based on a phase transfer mechanism. <i>Applied Surface Science</i> , 2014 , 307, 306-310	6.7	22
46	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	11.3	22
45	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	2.4	21
44	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO/TiO2 photocatalysts under visible light. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16430-16438	13	20
43	Equilibrium and DoDo Model Fitting of Water Adsorption on Four Commercial Activated Carbons with Different Surface Chemistry and Pore Structure. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5729-5732	2.8	18
42	Highly active and selective hydrodeoxygenation of oleic acid to second generation bio-diesel over SiO2-supported CoxNi1-xP catalysts. <i>Fuel</i> , 2019 , 247, 26-35	7.1	17
41	Novel 3-D nanoporous graphitic-C3N4 nanosheets with heterostructured modification for efficient visible-light photocatalytic hydrogen production. <i>RSC Advances</i> , 2014 , 4, 52332-52337	3.7	15
40	Synthesis BiVO4 modified by CuO supported onto bentonite for molecular oxygen photocatalytic oxidative desulfurization of fuel under visible light. <i>Fuel</i> , 2021 , 290, 120066	7.1	15
39	Rationally designed Ta3N5/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	9.1	15
38	Synthesized Z-scheme photocatalyst ZnO/g-C3N4 for enhanced photocatalytic reduction of CO2. <i>New Journal of Chemistry</i> , 2020 , 44, 16390-16399	3.6	14
37	Constructed Z-Scheme g-CN/AgVO/rGO Photocatalysts with Multi-interfacial Electron-Transfer Paths for High Photoreduction of CO. <i>Inorganic Chemistry</i> , 2021 , 60, 1755-1766	5.1	14
36	Facile preparation of biocompatible poly(L-lactic acid)-modified halloysite nanotubes/poly(Ecaprolactone) porous scaffolds by solvent evaporation of Pickering emulsion templates. <i>Journal of Materials Science</i> , 2018 , 53, 14774-14788	4.3	13
35	Adsorption of water vapor onto and its electrothermal desorption from activated carbons with different electric conductivities. <i>Separation and Purification Technology</i> , 2012 , 85, 77-82	8.3	13
34	Fabrication of sustained-release and antibacterial citronella oil-loaded composite microcapsules based on Pickering emulsion templates. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46386	2.9	12

33	Preparation of W and N, S-codoped titanium dioxide with enhanced photocatalytic activity under visible light irradiation. <i>Materials Research Bulletin</i> , 2016 , 76, 72-78	5.1	12
32	Electrochemical and optical biosensors based on multifunctional MXene nanoplateforms: Progress and prospects. <i>Talanta</i> , 2021 , 235, 122726	6.2	12
31	Single-crystalline melem (C ₆ N ₁₀ H ₆) nanorods: a novel stable molecular crystal photocatalyst with modulated charge potentials and dynamics. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13234-13241	13	11
30	Engineering 2D multi-hetero-interface in the well-designed nanosheet composite photocatalyst with broad electron-transfer channels for highly-efficient solar-to-fuels conversion. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119944	21.8	10
29	Photocatalytic Reduction of CO ₂ Using TiO ₂ -Graphene Nanocomposites. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-5	3.2	10
28	Enhancement of photocatalytic NO removal activity of g-C ₃ N ₄ by modification with illite particles. <i>Environmental Science: Nano</i> , 2020 , 7, 1990-1998	7.1	9
27	Route to Mesoporous TiO ₂ /Graphitic Carbon Microspheres for Photocatalytic Reduction of CO ₂ under Simulated Solar Irradiation. <i>ECS Solid State Letters</i> , 2013 , 2, M49-M52		8
26	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	9.1	8
25	Magnetic fluids stability improved by oleic acid bilayer-coated structure via one-pot synthesis. <i>Chemical Papers</i> , 2016 , 70,	1.9	8
24	Smartphone-based photoelectrochemical biosensing system with graphitic carbon nitride/gold nanoparticles modified electrodes for matrix metalloproteinase-2 detection. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113572	11.8	8
23	Principle and surface science of photocatalysis. <i>Interface Science and Technology</i> , 2020 , 31, 1-38	2.3	7
22	Fabricating intramolecular donor-acceptor system via covalent bonding of carbazole to carbon nitride for excellent photocatalytic performance towards CO conversion. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 550-560	9.3	7
21	Physically Close yet Chemically Separate Reduction and Oxidation Sites in Double-Walled Nanotubes for Photocatalytic Hydrogen Generation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3739-3743	6.4	6
20	Sandwich-like mesoporous graphene@magnetite@carbon nanosheets for high-rate lithium ion batteries. <i>Solid State Sciences</i> , 2016 , 57, 16-23	3.4	6
19	G-C ₃ N ₄ quantum dots and Au nano particles co-modified CeO ₂ /Fe ₃ O ₄ micro-flowers photocatalyst for enhanced CO ₂ photoreduction. <i>Renewable Energy</i> , 2021 , 179, 756-765	8.1	6
18	Charge transfer and orbital reconstruction of non-noble transition metal single-atoms anchored on Ti ₂ CT-MXenes for highly selective CO ₂ electrochemical reduction. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1906-1917	11.3	6
17	Rational design of Z-scheme Bi ₂ O ₃ /Cl ₂ /plasmonic Ag/anoxic TiO ₂ composites for efficient visible light photocatalysis. <i>Powder Technology</i> , 2021 , 384, 342-352	5.2	5
16	Surface and interface modification strategies of CdS-based photocatalysts. <i>Interface Science and Technology</i> , 2020 , 313-348	2.3	5

15	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		5
14	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	9.1	5
13	Branch-like Cd Zn ₁ -Se/Cu ₂ O@Cu step-scheme heterojunction for CO ₂ photoreduction. <i>Materials Today Physics</i> , 2022 , 26, 100729	8	5
12	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	11.3	4
11	Ultrahigh nitrogen-doped carbon/superfine-Sn particles for lithium ion battery anode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 22224-22238	2.1	4
10	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	9.1	4
9	Hydrogenated Oxide as Novel Quasi-metallic Cocatalyst for Efficient Visible-Light Driven Photocatalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12672-12681	3.8	3
8	Hierarchical porous photocatalysts. <i>Interface Science and Technology</i> , 2020 , 63-102	2.3	2
7	Full spectrum ultra-wideband absorber with stacked round hole disks. <i>Optik</i> , 2021 , 168297	2.5	2
6	Urea-induced supramolecular self-assembly strategy to synthesize wrinkled porous carbon nitride nanosheets for highly-efficient visible-light photocatalytic degradation.. <i>RSC Advances</i> , 2021 , 11, 23459-23470	3.7	2
5	Water Splitting By Photocatalytic Reduction. <i>Green Chemistry and Sustainable Technology</i> , 2016 , 175-210	1.1	1
4	Photodeposition of NiS Cocatalysts on g-C ₃ N ₄ with Edge Grafting of 4-(1H-Imidazol-2-yl) Benzoic Acid for Highly Elevated Photocatalytic H ₂ Evolution. <i>Advanced Sustainable Systems</i> , 2020 , 143	5.9	1
3	Hydrodeoxygenation of non-edible bio-lipids to renewable hydrocarbons over mesoporous SiO ₂ -TiO ₂ supported NiMo bimetallic catalyst. <i>Applied Catalysis A: General</i> , 2022 , 633, 118475	5.1	0
2	Boosting bio-lipids deoxygenation via tunable metal-support interaction in nickel/ceria-based catalysts. <i>Fuel</i> , 2022 , 322, 124027	7.1	0
1	TiO ₂ supported on SiO ₂ photocatalysts prepared using ultrasonic-assisted sol-gel method. <i>Materials Science-Poland</i> , 2011 , 29, 189-194	0.6	