

Bei Cheng

List of Publications by Year in descending order

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papers

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times ranked

43376
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterojunction Photocatalysts. <i>Advanced Materials</i> , 2017, 29, 1601694.	11.1	3,143
2	Polymeric Photocatalysts Based on Graphitic Carbon Nitride. <i>Advanced Materials</i> , 2015, 27, 2150-2176.	11.1	3,046
3	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production of CdS-Cluster-Decorated Graphene Nanosheets. <i>Journal of the American Chemical Society</i> , 2011, 133, 10878-10884.	6.6	2,260
4	S-Scheme Heterojunction Photocatalyst. <i>CheM</i> , 2020, 6, 1543-1559.	5.8	1,993
5	All-Solid-State Z-Scheme Photocatalytic Systems. <i>Advanced Materials</i> , 2014, 26, 4920-4935.	11.1	1,989
6	Ultrathin 2D/2D WO ₃ /g-C ₃ N ₄ step-scheme H ₂ -production photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 556-565.	10.8	1,895
7	g-C ₃ N ₄ -Based Heterostructured Photocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1701503.	10.2	1,870
8	Enhanced Photocatalytic CO ₂ -Reduction Activity of Anatase TiO ₂ by Coexposed {001} and {101} Facets. <i>Journal of the American Chemical Society</i> , 2014, 136, 8839-8842.	6.6	1,701
9	Preparation and Enhanced Visible-Light Photocatalytic H ₂ -Production Activity of Graphene/C ₃ N ₄ Composites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7355-7363.	1.5	1,694
10	Cocatalysts for Selective Photoreduction of CO ₂ into Solar Fuels. <i>Chemical Reviews</i> , 2019, 119, 3962-4179.	23.0	1,591
11	Hierarchical photocatalysts. <i>Chemical Society Reviews</i> , 2016, 45, 2603-2636.	18.7	1,517
12	Enhanced photocatalytic performance of direct Z-scheme g-C ₃ N ₄ /TiO ₂ photocatalysts for the decomposition of formaldehyde in air. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16883.	1.3	1,167
13	2D/2D Heterojunction of Ultrathin MXene/Bi ₂ WO ₆ Nanosheets for Improved Photocatalytic CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2018, 28, 1800136.	7.8	1,157
14	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. <i>Materials Today</i> , 2018, 21, 1042-1063.	8.3	1,134
15	Hydrogen Production by Photocatalytic Water Splitting over Pt/TiO ₂ Nanosheets with Exposed (001) Facets. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13118-13125.	1.5	1,071
16	Hierarchical Porous O ₂ -Doped g-C ₃ N ₄ with Enhanced Photocatalytic CO ₂ Reduction Activity. <i>Small</i> , 2017, 13, 1603938.	5.2	1,025
17	New understanding of the difference of photocatalytic activity among anatase, rutile and brookite TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20382-20386.	1.3	990
18	Surface modification and enhanced photocatalytic CO ₂ reduction performance of TiO ₂ : a review. <i>Applied Surface Science</i> , 2017, 392, 658-686.	3.1	989

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19	A Review of Direct Z-scheme Photocatalysts. <i>Small Methods</i> , 2017, 1, 1700080.	4.6	955
20	Sulfur-doped g-C ₃ N ₄ with enhanced photocatalytic CO ₂ -reduction performance. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 44-52.	10.8	919
21	Review on the improvement of the photocatalytic and antibacterial activities of ZnO. <i>Journal of Alloys and Compounds</i> , 2017, 727, 792-820.	2.8	884
22	Noble Metal-Free Reduced Graphene Oxide-Zn _{1-x} Cd _x S Nanocomposite with Enhanced Solar Photocatalytic H ₂ -Production Performance. <i>Nano Letters</i> , 2012, 12, 4584-4589.	4.5	845
23	Graphene in Photocatalysis: A Review. <i>Small</i> , 2016, 12, 6640-6696.	5.2	836
24	Dual Cocatalysts in TiO ₂ Photocatalysis. <i>Advanced Materials</i> , 2019, 31, e1807660.	11.1	796
25	Unique S-scheme heterojunctions in self-assembled TiO ₂ /CsPbBr ₃ hybrids for CO ₂ photoreduction. <i>Nature Communications</i> , 2020, 11, 4613.	5.8	776
26	Hydrothermal Synthesis and Photocatalytic Activity of Zinc Oxide Hollow Spheres. <i>Environmental Science & Technology</i> , 2008, 42, 4902-4907.	4.6	754
27	Isoelectric point and adsorption activity of porous g-C ₃ N ₄ . <i>Applied Surface Science</i> , 2015, 344, 188-195.	3.1	753
28	Enhanced photocatalytic H ₂ -production activity of graphene-modified titania nanosheets. <i>Nanoscale</i> , 2011, 3, 3670.	2.8	742
29	A direct Z-scheme g-C ₃ N ₄ /SnS ₂ photocatalyst with superior visible-light CO ₂ reduction performance. <i>Journal of Catalysis</i> , 2017, 352, 532-541.	3.1	721
30	Product selectivity of photocatalytic CO ₂ reduction reactions. <i>Materials Today</i> , 2020, 32, 222-243.	8.3	719
31	Emerging S-scheme Photocatalyst. <i>Advanced Materials</i> , 2022, 34, e2107668.	11.1	717
32	In Situ Irradiated X-ray Photoelectron Spectroscopy Investigation on a Direct Z-scheme TiO ₂ /CdS Composite Film Photocatalyst. <i>Advanced Materials</i> , 2019, 31, e1802981.	11.1	714
33	CdS/Graphene Nanocomposite Photocatalysts. <i>Advanced Energy Materials</i> , 2015, 5, 1500010.	10.2	694
34	Graphene-Based Photocatalysts for Solar-Fuel Generation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11350-11366.	7.2	692
35	A Hierarchical Z-Scheme CdS-WO ₃ Photocatalyst with Enhanced CO ₂ Reduction Activity. <i>Small</i> , 2015, 11, 5262-5271.	5.2	682
36	Direct Z-scheme ZnO/CdS hierarchical photocatalyst for enhanced photocatalytic H ₂ -production activity. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 19-26.	10.8	653

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37	TiO ₂ /MXene Ti ₃ C ₂ composite with excellent photocatalytic CO ₂ reduction activity. Journal of Catalysis, 2018, 361, 255-266.	3.1	647
38	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO ₂ reduction. Journal of Materials Chemistry A, 2017, 5, 3230-3238.	5.2	621
39	2D/2D/0D TiO ₂ /C ₃ N ₄ /Ti ₃ C ₂ MXene composite S-scheme photocatalyst with enhanced CO ₂ reduction activity. Applied Catalysis B: Environmental, 2020, 272, 119006.	10.8	604
40	Fabrication and photocatalytic activity enhanced mechanism of direct Z-scheme g-C ₃ N ₄ /Ag ₂ WO ₄ photocatalyst. Applied Surface Science, 2017, 391, 175-183.	3.1	601
41	Enhancement of Photocatalytic Activity of Mesoporous TiO ₂ Powders by Hydrothermal Surface Fluorination Treatment. Journal of Physical Chemistry C, 2009, 113, 6743-6750.	1.5	577
42	Size- and shape-dependent catalytic performances of oxidation and reduction reactions on nanocatalysts. Chemical Society Reviews, 2016, 45, 4747-4765.	18.7	568
43	Zn _{1-x} Cd _x S Solid Solutions with Controlled Bandgap and Enhanced Visible-Light Photocatalytic H ₂ -Production Activity. ACS Catalysis, 2013, 3, 882-889.	5.5	565
44	Two-dimensional layered composite photocatalysts. Chemical Communications, 2014, 50, 10768.	2.2	551
45	An Inorganic/Organic S-scheme Heterojunction H ₂ -Production Photocatalyst and its Charge Transfer Mechanism. Advanced Materials, 2021, 33, e2100317.	11.1	528
46	Effects of hydrothermal temperature and time on the photocatalytic activity and microstructures of bimodal mesoporous TiO ₂ powders. Applied Catalysis B: Environmental, 2007, 69, 171-180.	10.8	527
47	2D/2D g-C ₃ N ₄ /MnO ₂ Nanocomposite as a Direct Z-Scheme Photocatalyst for Enhanced Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 965-973.	3.2	519
48	In Situ Grown Monolayer N-doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic CO ₂ Reduction. Advanced Materials, 2019, 31, e1902868.	11.1	515
49	A review on TiO ₂ -based Z-scheme photocatalysts. Chinese Journal of Catalysis, 2017, 38, 1936-1955.	6.9	511
50	Synthesis and Enhanced Visible-Light Photoelectrocatalytic Activity of p-n Junction BiOI/TiO ₂ Nanotube Arrays. Journal of Physical Chemistry C, 2011, 115, 7339-7346.	1.5	503
51	Graphene-Based Photocatalysts for Hydrogen Generation. Journal of Physical Chemistry Letters, 2013, 4, 753-759.	2.1	501
52	A noble metal-free reduced graphene oxide-CdS nanorod composite for the enhanced visible-light photocatalytic reduction of CO ₂ to solar fuel. Journal of Materials Chemistry A, 2014, 2, 3407.	5.2	499
53	Sulfur-doped g-C ₃ N ₄ /TiO ₂ S-scheme heterojunction photocatalyst for Congo Red photodegradation. Chinese Journal of Catalysis, 2021, 42, 56-68.	6.9	493
54	Enhanced photocatalytic activity and stability of Z-scheme Ag ₂ CrO ₄ -GO composite photocatalysts for organic pollutant degradation. Applied Catalysis B: Environmental, 2015, 164, 380-388.	10.8	483

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55	Recent advances in visible light Bi-based photocatalysts. Chinese Journal of Catalysis, 2014, 35, 989-1007.	6.9	481
56	Ag ₂ CrO ₄ /g-C ₃ N ₄ /graphene oxide ternary nanocomposite Z-scheme photocatalyst with enhanced CO ₂ reduction activity. Applied Catalysis B: Environmental, 2018, 231, 368-380.	10.8	469
57	Photocatalytic reduction of CO ₂ into hydrocarbon solar fuels over g-C ₃ N ₄ @Pt nanocomposite photocatalysts. Physical Chemistry Chemical Physics, 2014, 16, 11492.	1.3	465
58	A new understanding of the photocatalytic mechanism of the direct Z-scheme g-C ₃ N ₄ /TiO ₂ heterostructure. Physical Chemistry Chemical Physics, 2016, 18, 31175-31183.	1.3	459
59	Enhanced photocatalytic H ₂ -production activity of WO ₃ /TiO ₂ step-scheme heterojunction by graphene modification. Chinese Journal of Catalysis, 2020, 41, 9-20.	6.9	458
60	In situ Irradiated XPS Investigation on S-scheme TiO ₂ @ZnIn ₂ S ₄ Photocatalyst for Efficient Photocatalytic CO ₂ Reduction. Small, 2021, 17, e2103447.	5.2	449
61	Design and fabrication of semiconductor photocatalyst for photocatalytic reduction of CO ₂ to solar fuel. Science China Materials, 2014, 57, 70-100.	3.5	446
62	Hydrothermal Preparation and Photocatalytic Activity of Hierarchically Sponge-like Macro-/Mesoporous Titania. Journal of Physical Chemistry C, 2007, 111, 10582-10589.	1.5	443
63	Review on Metal Sulphide-based Z-scheme Photocatalysts. ChemCatChem, 2019, 11, 1394-1411.	1.8	439
64	First principle investigation of halogen-doped monolayer g-C ₃ N ₄ photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	10.8	422
65	Review on nanoscale Bi-based photocatalysts. Nanoscale Horizons, 2018, 3, 464-504.	4.1	421
66	Superb adsorption capacity of hierarchical calcined Ni/Mg/Al layered double hydroxides for Congo red and Cr(VI) ions. Journal of Hazardous Materials, 2017, 321, 801-811.	6.5	417
67	Noble metal-free Ni(OH) ₂ @g-C ₃ N ₄ composite photocatalyst with enhanced visible-light photocatalytic H ₂ -production activity. Catalysis Science and Technology, 2013, 3, 1782.	2.1	411
68	CuInS ₂ sensitized TiO ₂ hybrid nanofibers for improved photocatalytic CO ₂ reduction. Applied Catalysis B: Environmental, 2018, 230, 194-202.	10.8	407
69	Constructing 2D/2D Fe ₂ O ₃ /g-C ₃ N ₄ Direct Z-scheme Photocatalysts with Enhanced H ₂ Generation Performance. Solar Rrl, 2018, 2, 1800006.	3.1	403
70	Effects of Fe-doping on the photocatalytic activity of mesoporous TiO ₂ powders prepared by an ultrasonic method. Journal of Hazardous Materials, 2006, 137, 1838-1847.	6.5	401
71	Direct Z-scheme TiO ₂ /CdS hierarchical photocatalyst for enhanced photocatalytic H ₂ -production activity. Applied Surface Science, 2017, 422, 518-527.	3.1	397
72	Novel urea assisted hydrothermal synthesis of hierarchical BiVO ₄ /Bi ₂ O ₂ CO ₃ nanocomposites with enhanced visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2011, 110, 286-295.	10.8	392

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73	Enhanced Photocatalytic H ₂ -Production Activity of TiO ₂ by Ni(OH) ₂ Cluster Modification. Journal of Physical Chemistry C, 2011, 115, 4953-4958.	1.5	392
74	First-principle calculation study of tri-s-triazine-based g-C ₃ N ₄ : A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	10.8	382
75	Semiconductor-based photocatalytic CO ₂ conversion. Materials Horizons, 2015, 2, 261-278.	6.4	380
76	Enhanced photocatalytic H ₂ -production activity of anatase TiO ₂ nanosheet by selectively depositing dual-cocatalysts on {101} and {001} facets. Applied Catalysis B: Environmental, 2016, 198, 286-294.	10.8	375
77	Graphene-Based Photocatalysts for CO ₂ Reduction to Solar Fuel. Journal of Physical Chemistry Letters, 2015, 6, 4244-4251.	2.1	368
78	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. ACS Nano, 2018, 12, 12369-12379.	7.3	366
79	Self-assembled hierarchical direct Z-scheme g-C ₃ N ₄ /ZnO microspheres with enhanced photocatalytic CO ₂ reduction performance. Applied Surface Science, 2018, 441, 12-22.	3.1	364
80	The effect of manganese vacancy in birnessite-type MnO ₂ on room-temperature oxidation of formaldehyde in air. Applied Catalysis B: Environmental, 2017, 204, 147-155.	10.8	362
81	Morphology-dependent photocatalytic H ₂ -production activity of CdS. Applied Catalysis B: Environmental, 2014, 156-157, 184-191.	10.8	359
82	Enhanced photocatalytic activity of hierarchical macro/mesoporous TiO ₂ @graphene composites for photodegradation of acetone in air. Applied Catalysis B: Environmental, 2012, 119-120, 109-116.	10.8	356
83	Making co-condensed amorphous carbon/g-C ₃ N ₄ composites with improved visible-light photocatalytic H ₂ -production performance using Pt as cocatalyst. Carbon, 2017, 118, 241-249.	5.4	356
84	Enhanced Performance of NaOH-Modified Pt/TiO ₂ toward Room Temperature Selective Oxidation of Formaldehyde. Environmental Science & Technology, 2013, 47, 2777-2783.	4.6	355
85	Synthesis of hierarchical Ni(OH) ₂ and NiO nanosheets and their adsorption kinetics and isotherms to Congo red in water. Journal of Hazardous Materials, 2011, 185, 889-897.	6.5	343
86	Hollow CoS Polyhedrons Act as High-Efficiency Cocatalyst for Enhancing the Photocatalytic Hydrogen Generation of g-C ₃ N ₄ . ACS Sustainable Chemistry and Engineering, 2018, 6, 2767-2779.	3.2	343
87	Facet effect of Pd cocatalyst on photocatalytic CO ₂ reduction over g-C ₃ N ₄ . Journal of Catalysis, 2017, 349, 208-217.	3.1	332
88	3D hierarchical graphene oxide-NiFe LDH composite with enhanced adsorption affinity to Congo red, methyl orange and Cr(VI) ions. Journal of Hazardous Materials, 2019, 369, 214-225.	6.5	329
89	Enhanced visible light photocatalytic H ₂ -production of g-C ₃ N ₄ /WS ₂ composite heterostructures. Applied Surface Science, 2015, 358, 196-203.	3.1	327
90	TiO ₂ nanosheets with exposed {001} facets for photocatalytic applications. Nano Research, 2016, 9, 3-27.	5.8	327

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91	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. <i>Advanced Materials</i> , 2021, 33, e2003521.	11.1	324
92	Fabrication of NiS modified CdS nanorod p-n junction photocatalysts with enhanced visible-light photocatalytic H ₂ -production activity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12088.	1.3	323
93	Microwave-assisted hydrothermal synthesis of graphene based Au-TiO ₂ photocatalysts for efficient visible-light hydrogen production. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3847-3855.	5.2	314
94	Core-Shell Nitrogen-Doped Carbon Hollow Spheres/Co ₃ O ₄ Nanosheets as Advanced Electrode for High-Performance Supercapacitor. <i>Small</i> , 2018, 14, e1702407.	5.2	309
95	Metal-Organic Framework-Derived Nickel-Cobalt Sulfide on Ultrathin Mxene Nanosheets for Electrocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22311-22319.	4.0	306
96	Recent advances in g-C ₃ N ₄ -based heterojunction photocatalysts. <i>Journal of Materials Science and Technology</i> , 2020, 56, 1-17.	5.6	297
97	In Situ Fabrication of Ni-Mo Bimetal Sulfide Hybrid as an Efficient Electrocatalyst for Hydrogen Evolution over a Wide pH Range. <i>ACS Catalysis</i> , 2017, 7, 6179-6187.	5.5	287
98	Single-Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018, 28, 1802169.	7.8	287
99	S-Scheme Heterojunction TiO ₂ /CdS Nanocomposite Nanofiber as H ₂ -Production Photocatalyst. <i>ChemCatChem</i> , 2019, 11, 6301-6309.	1.8	286
100	Photocatalytic H ₂ evolution on graphdiyne/g-C ₃ N ₄ hybrid nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2019, 255, 117770.	10.8	284
101	Effect of Crystallization Methods on Morphology and Photocatalytic Activity of Anodized TiO ₂ Nanotube Array Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19378-19385.	1.5	271
102	S-scheme heterojunction based on p-type ZnMn ₂ O ₄ and n-type ZnO with improved photocatalytic CO ₂ reduction activity. <i>Chemical Engineering Journal</i> , 2021, 409, 127377.	6.6	269
103	Facile Synthesis of Ordered Mesoporous Alumina and Alumina-Supported Metal Oxides with Tailored Adsorption and Framework Properties. <i>Chemistry of Materials</i> , 2011, 23, 1147-1157.	3.2	268
104	Non-Noble Plasmonic Metal-Based Photocatalysts. <i>Chemical Reviews</i> , 2022, 122, 10484-10537.	23.0	268
105	Synthesis of hierarchical porous zinc oxide (ZnO) microspheres with highly efficient adsorption of Congo red. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 242-251.	5.0	266
106	Unraveling Photoexcited Charge Transfer Pathway and Process of CdS/Graphene Nanoribbon Composites toward Visible-Light Photocatalytic Hydrogen Evolution. <i>Small</i> , 2019, 15, e1902459.	5.2	258
107	Enhanced visible-light photocatalytic activity of plasmonic Ag and graphene co-modified Bi ₂ WO ₆ nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1111-1120.	1.3	256
108	H ₂ WO ₄ -H ₂ O/Ag/AgCl Composite Nanoplates: A Plasmonic Z-Scheme Visible-Light Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14648-14655.	1.5	255

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109	Enhanced photocatalytic activity of TiO ₂ powder (P25) by hydrothermal treatment. Journal of Molecular Catalysis A, 2006, 253, 112-118.	4.8	254
110	Carbon-based H ₂ -production photocatalytic materials. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2016, 27, 72-99.	5.6	252
111	Hierarchical porous CdS nanosheet-assembled flowers with enhanced visible-light photocatalytic H ₂ -production performance. Applied Catalysis B: Environmental, 2013, 138-139, 299-303.	10.8	249
112	Nickel-based materials for supercapacitors. Materials Today, 2019, 25, 35-65.	8.3	247
113	Dye-sensitized solar cells based on anatase TiO ₂ hollow spheres/carbon nanotube composite films. Journal of Power Sources, 2011, 196, 7891-7898.	4.0	245
114	Ternary NiS/ZnS/CdS/Reduced Graphene Oxide Nanocomposites for Enhanced Solar Photocatalytic H ₂ -Production Activity. Advanced Energy Materials, 2014, 4, 1301925.	10.2	244
115	OD/3D MoS ₂ -NiS ₂ /N-doped graphene foam composite for efficient overall water splitting. Applied Catalysis B: Environmental, 2019, 254, 15-25.	10.8	243
116	Hybrid carbon@TiO ₂ hollow spheres with enhanced photocatalytic CO ₂ reduction activity. Journal of Materials Chemistry A, 2017, 5, 5020-5029.	5.2	240
117	Preparation and enhanced photocatalytic activity of Ag@TiO ₂ core-shell nanocomposite nanowires. Journal of Hazardous Materials, 2010, 177, 971-977.	6.5	232
118	Template-free synthesis of hierarchical spindle-like γ -Al ₂ O ₃ materials and their adsorption affinity towards organic and inorganic pollutants in water. Journal of Materials Chemistry, 2010, 20, 4587.	6.7	232
119	One-Pot Template-Free Synthesis of Monodisperse Zinc Sulfide Hollow Spheres and Their Photocatalytic Properties. Chemistry - A European Journal, 2009, 15, 6731-6739.	1.7	229
120	Efficient photocatalytic reduction of CO ₂ by amine-functionalized g-C ₃ N ₄ . Applied Surface Science, 2015, 358, 350-355.	3.1	229
121	Hollow Carbon Spheres and Their Hybrid Nanomaterials in Electrochemical Energy Storage. Advanced Energy Materials, 2019, 9, 1803900.	10.2	220
122	Structure effect of graphene on the photocatalytic performance of plasmonic Ag/Ag ₂ CO ₃ -rGO for photocatalytic elimination of pollutants. Applied Catalysis B: Environmental, 2016, 181, 71-78.	10.8	219
123	TiO ₂ -MnO ₂ -Pt Hybrid Multiheterojunction Film Photocatalyst with Enhanced Photocatalytic CO ₂ -Reduction Activity. ACS Applied Materials & Interfaces, 2019, 11, 5581-5589.	4.0	219
124	Hollow Iron-Vanadium Composite Spheres: A Highly Efficient Iron-Based Water Oxidation Electrocatalyst without the Need for Nickel or Cobalt. Angewandte Chemie - International Edition, 2017, 56, 3289-3293.	7.2	216
125	Direct Z-Scheme TiO ₂ /NiS Core-Shell Hybrid Nanofibers with Enhanced Photocatalytic H ₂ -Production Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 12291-12298.	3.2	216
126	Direct Z-scheme anatase/rutile bi-phase nanocomposite TiO ₂ nanofiber photocatalyst with enhanced photocatalytic H ₂ -production activity. International Journal of Hydrogen Energy, 2014, 39, 15394-15402.	3.8	213

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127	Enhanced photocatalytic H ₂ production on CdS nanorod using cobalt-phosphate as oxidation cocatalyst. Applied Surface Science, 2016, 389, 775-782.	3.1	212
128	New understanding on the different photocatalytic activity of wurtzite and zinc-blende CdS. Applied Catalysis B: Environmental, 2016, 192, 101-107.	10.8	212
129	Hierarchical TiO ₂ /Ni(OH) ₂ composite fibers with enhanced photocatalytic CO ₂ reduction performance. Journal of Materials Chemistry A, 2018, 6, 4729-4736.	5.2	212
130	Cubic anatase TiO ₂ nanocrystals with enhanced photocatalytic CO ₂ reduction activity. Chemical Communications, 2015, 51, 7950-7953.	2.2	209
131	Graphdiyne: A New Photocatalytic CO ₂ Reduction Cocatalyst. Advanced Functional Materials, 2019, 29, 1904256.	7.8	207
132	Curved Surface Boosts Electrochemical CO ₂ Reduction to Formate via Bismuth Nanotubes in a Wide Potential Window. ACS Catalysis, 2020, 10, 358-364.	5.5	206
133	Trace-level phosphorus and sodium co-doping of g-C ₃ N ₄ for enhanced photocatalytic H ₂ production. Journal of Power Sources, 2017, 351, 151-159.	4.0	205
134	Hierarchical porous Ni/Co-LDH hollow dodecahedron with excellent adsorption property for Congo red and Cr(VI) ions. Applied Surface Science, 2019, 478, 981-990.	3.1	204
135	Fluorine ions-mediated morphology control of anatase TiO ₂ with enhanced photocatalytic activity. Physical Chemistry Chemical Physics, 2012, 14, 5349.	1.3	203
136	Effects of pH on the microstructures and photocatalytic activity of mesoporous nanocrystalline titania powders prepared via hydrothermal method. Journal of Molecular Catalysis A, 2006, 258, 104-112.	4.8	199
137	Efficient catalytic removal of formaldehyde at room temperature using AlOOH nanoflakes with deposited Pt. Applied Catalysis B: Environmental, 2015, 163, 306-312.	10.8	199
138	Direct evidence and enhancement of surface plasmon resonance effect on Ag-loaded TiO ₂ nanotube arrays for photocatalytic CO ₂ reduction. Applied Surface Science, 2018, 434, 423-432.	3.1	199
139	3D Graphene-Based H ₂ Production Photocatalyst and Electrocatalyst. Advanced Energy Materials, 2020, 10, 1903802.	10.2	199
140	Synthesis of Hierarchical Flower-like AlOOH and TiO ₂ /AlOOH Superstructures and their Enhanced Photocatalytic Properties. Journal of Physical Chemistry C, 2009, 113, 17527-17535.	1.5	198
141	Dopamine Modified g-C ₃ N ₄ and Its Enhanced Visible-Light Photocatalytic H ₂ -Production Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 8945-8953.	3.2	198
142	Nitrogen-doped TiO ₂ microsheets with enhanced visible light photocatalytic activity for CO ₂ reduction. Chinese Journal of Catalysis, 2015, 36, 2127-2134.	6.9	197
143	Room-temperature catalytic oxidation of formaldehyde on catalysts. Catalysis Science and Technology, 2016, 6, 3649-3669.	2.1	197
144	Enhanced Photoinduced-Stability and Photocatalytic Activity of CdS by Dual Amorphous Cocatalysts: Synergistic Effect of Ti(IV)-Hole Cocatalyst and Ni(II)-Electron Cocatalyst. Journal of Physical Chemistry C, 2016, 120, 3722-3730.	1.5	195

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145	Synthesis of Boehmite Hollow Core/Shell and Hollow Microspheres via Sodium Tartrate-Mediated Phase Transformation and Their Enhanced Adsorption Performance in Water Treatment. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14739-14746.	1.5	194
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