Jiaguo Yu

List of Publications by Year in descending order

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802 papers	163,388 citations	14 206 h-index	69 373 g-index
820 all docs	820 docs citations	820 times ranked	61718 citing authors

#	Article	IF	Citations
1	Heterojunction Photocatalysts. Advanced Materials, 2017, 29, 1601694.	21.0	3,143
2	Polymeric Photocatalysts Based on Graphitic Carbon Nitride. Advanced Materials, 2015, 27, 2150-2176.	21.0	3,046
3	Graphene-based semiconductor photocatalysts. Chemical Society Reviews, 2012, 41, 782-796.	38.1	2,497
4	Highly Efficient Visible-Light-Driven Photocatalytic Hydrogen Production of CdS-Cluster-Decorated Graphene Nanosheets. Journal of the American Chemical Society, 2011, 133, 10878-10884.	13.7	2,260
5	Synergetic Effect of MoS₂ and Graphene as Cocatalysts for Enhanced Photocatalytic H₂ Production Activity of TiO₂ Nanoparticles. Journal of the American Chemical Society, 2012, 134, 6575-6578.	13.7	2,245
6	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. Chemical Society Reviews, 2014, 43, 7787-7812.	38.1	2,125
7	S-Scheme Heterojunction Photocatalyst. CheM, 2020, 6, 1543-1559.	11.7	1,993
8	Allâ€Solidâ€State Zâ€Scheme Photocatalytic Systems. Advanced Materials, 2014, 26, 4920-4935.	21.0	1,989
9	Ultrathin 2D/2D WO3/g-C3N4 step-scheme H2-production photocatalyst. Applied Catalysis B: Environmental, 2019, 243, 556-565.	20.2	1,895
10	gâ€C₃N₄â€Based Heterostructured Photocatalysts. Advanced Energy Materials, 2018, 8, 1701503.	19.5	1,870
11	Enhanced Photocatalytic CO₂-Reduction Activity of Anatase TiO₂ by Coexposed {001} and {101} Facets. Journal of the American Chemical Society, 2014, 136, 8839-8842.	13.7	1,701
12	Preparation and Enhanced Visible-Light Photocatalytic H₂-Production Activity of Graphene/C₃N₄ Composites. Journal of Physical Chemistry C, 2011, 115, 7355-7363.	3.1	1,694
13	Engineering heterogeneous semiconductors for solar water splitting. Journal of Materials Chemistry A, 2015, 3, 2485-2534.	10.3	1,609
14	Cocatalysts for Selective Photoreduction of CO₂into Solar Fuels. Chemical Reviews, 2019, 119, 3962-4179.	47.7	1,591
15	Hierarchical photocatalysts. Chemical Society Reviews, 2016, 45, 2603-2636.	38.1	1,517
16	Enhanced photocatalytic performance of direct Z-scheme g-C3N4â€“TiO2 photocatalysts for the decomposition of formaldehyde in air. Physical Chemistry Chemical Physics, 2013, 15, 16883.	2.8	1,167
17	2D/2D Heterojunction of Ultrathin MXene/Bi₂WO₆ Nanosheets for Improved Photocatalytic CO₂ Reduction. Advanced Functional Materials, 2018, 28, 1800136.	14.9	1,157
18	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. Materials Today, 2018, 21, 1042-1063.	14.2	1,134

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19	The Effect of Calcination Temperature on the Surface Microstructure and Photocatalytic Activity of TiO2 Thin Films Prepared by Liquid Phase Deposition. Journal of Physical Chemistry B, 2003, 107, 13871-13879.	2.6	1,113
20	g-C₃N₄-Based Photocatalysts for Hydrogen Generation. Journal of Physical Chemistry Letters, 2014, 5, 2101-2107.	4.6	1,107
21	Hydrogen Production by Photocatalytic Water Splitting over Pt/TiO₂ Nanosheets with Exposed (001) Facets. Journal of Physical Chemistry C, 2010, 114, 13118-13125.	3.1	1,071
22	Hierarchical Porous Oâ€Doped gâ€C₃N₄ with Enhanced Photocatalytic CO₂ Reduction Activity. Small, 2017, 13, 1603938.	10.0	1,025
23	New understanding of the difference of photocatalytic activity among anatase, rutile and brookite TiO₂. Physical Chemistry Chemical Physics, 2014, 16, 20382-20386.	2.8	990
24	Surface modification and enhanced photocatalytic CO2 reduction performance of TiO2: a review. Applied Surface Science, 2017, 392, 658-686.	6.1	989
25	Tunable Photocatalytic Selectivity of Hollow TiO₂ Microspheres Composed of Anatase Polyhedra with Exposed {001} Facets. Journal of the American Chemical Society, 2010, 132, 11914-11916.	13.7	979
26	A Review of Direct Zâ€Scheme Photocatalysts. Small Methods, 2017, 1, 1700080.	8.6	955
27	Sulfur-doped g-C3N4 with enhanced photocatalytic CO2-reduction performance. Applied Catalysis B: Environmental, 2015, 176-177, 44-52.	20.2	919
28	Review on the improvement of the photocatalytic and antibacterial activities of ZnO. Journal of Alloys and Compounds, 2017, 727, 792-820.	5.5	884
29	Visible Light Photocatalytic H₂-Production Activity of CuS/ZnS Porous Nanosheets Based on Photoinduced Interfacial Charge Transfer. Nano Letters, 2011, 11, 4774-4779.	9.1	846
30	Noble Metal-Free Reduced Graphene Oxide-Zn_xCd_{1â€“x}S Nanocomposite with Enhanced Solar Photocatalytic H₂-Production Performance. Nano Letters, 2012, 12, 4584-4589.	9.1	845
31	Graphene in Photocatalysis: A Review. Small, 2016, 12, 6640-6696.	10.0	836
32	Designing a 0D/2D Sâ€Scheme Heterojunction over Polymeric Carbon Nitride for Visibleâ€Light Photocatalytic Inactivation of Bacteria. Angewandte Chemie - International Edition, 2020, 59, 5218-5225.	13.8	822
33	An overview on the removal of synthetic dyes from water by electrochemical advanced oxidation processes. Chemosphere, 2018, 197, 210-227.	8.2	814
34	Dual Cocatalysts in TiO₂ Photocatalysis. Advanced Materials, 2019, 31, e1807660.	21.0	796
35	Unique S-scheme heterojunctions in self-assembled TiO2/CsPbBr3 hybrids for CO2 photoreduction. Nature Communications, 2020, 11, 4613.	12.8	776
36	Fabrication and Characterization of Visible-Light-Driven Plasmonic Photocatalyst Ag/AgCl/TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2009, 113, 16394-16401.	3.1	770

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37	Efficient Visible-Light-Induced Photocatalytic Disinfection on Sulfur-Doped Nanocrystalline Titania. Environmental Science & Technology, 2005, 39, 1175-1179.	10.0	754
38	Hydrothermal Synthesis and Photocatalytic Activity of Zinc Oxide Hollow Spheres. Environmental Science & Technology, 2008, 42, 4902-4907.	10.0	754
39	Isoelectric point and adsorption activity of porous g-C3N4. Applied Surface Science, 2015, 344, 188-195.	6.1	753
40	Efficient Visible-Light Photocatalytic Hydrogen Evolution and Enhanced Photostability of Core/Shell CdS/g-C₃N₄ Nanowires. ACS Applied Materials & Interfaces, 2013, 5, 10317-10324.	8.0	747
41	Enhanced photocatalytic H2-production activity of graphene-modified titania nanosheets. Nanoscale, 2011, 3, 3670.	5.6	742
42	A direct Z-scheme g-C3N4/SnS2 photocatalyst with superior visible-light CO2 reduction performance. Journal of Catalysis, 2017, 352, 532-541.	6.2	721
43	Product selectivity of photocatalytic CO2 reduction reactions. Materials Today, 2020, 32, 222-243.	14.2	719
44	Emerging Sâ€Scheme Photocatalyst. Advanced Materials, 2022, 34, e2107668.	21.0	717
45	In Situ Irradiated Xâ€Ray Photoelectron Spectroscopy Investigation on a Direct Zâ€Scheme TiO₂/CdS Composite Film Photocatalyst. Advanced Materials, 2019, 31, e1802981.	21.0	714
46	Metalâ€Free 2D/2D Phosphorene/gâ€C₃N₄ Van der Waals Heterojunction for Highly Enhanced Visibleâ€Light Photocatalytic H₂ Production. Advanced Materials, 2018, 30, e1800128.	21.0	707
47	Preparation, characterization and visible-light-driven photocatalytic activity of Fe-doped titania nanorods and first-principles study for electronic structures. Applied Catalysis B: Environmental, 2009, 90, 595-602.	20.2	700
48	CdS/Graphene Nanocomposite Photocatalysts. Advanced Energy Materials, 2015, 5, 1500010.	19.5	694
49	Grapheneâ€Based Photocatalysts for Solarâ€Fuel Generation. Angewandte Chemie - International Edition, 2015, 54, 11350-11366.	13.8	692
50	A Hierarchical Z-Scheme CdS-WO₃Photocatalyst with Enhanced CO₂Reduction Activity. Small, 2015, 11, 5262-5271.	10.0	682
51	Anatase TiO₂ with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. Chemistry of Materials, 2011, 23, 4085-4093.	6.7	669
52	Fabrication and characterization of Agâ€“TiO2 multiphase nanocomposite thin films with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2005, 60, 211-221.	20.2	660
53	Direct Z-scheme ZnO/CdS hierarchical photocatalyst for enhanced photocatalytic H2-production activity. Applied Catalysis B: Environmental, 2019, 243, 19-26.	20.2	653
54	TiO2/MXene Ti3C2 composite with excellent photocatalytic CO2 reduction activity. Journal of Catalysis, 2018, 361, 255-266.	6.2	647

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55	Templateâ€Free Fabrication and Enhanced Photocatalytic Activity of Hierarchical Macroâ€Mesoporous Titania. Advanced Functional Materials, 2007, 17, 1984-1990.	14.9	635
56	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO₂ reduction. Journal of Materials Chemistry A, 2017, 5, 3230-3238.	10.3	621
57	2D/2D/0D TiO2/C3N4/Ti3C2 MXene composite S-scheme photocatalyst with enhanced CO2 reduction activity. Applied Catalysis B: Environmental, 2020, 272, 119006.	20.2	604
58	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.	6.1	601
59	Use of surfactants for the remediation of contaminated soils: A review. Journal of Hazardous Materials, 2015, 285, 419-435.	12.4	597
60	Quantitative characterization of hydroxyl radicals produced by various photocatalysts. Journal of Colloid and Interface Science, 2011, 357, 163-167.	9.4	592
61	Enhancement of Photocatalytic Activity of Mesporous TiO₂ Powders by Hydrothermal Surface Fluorination Treatment. Journal of Physical Chemistry C, 2009, 113, 6743-6750.	3.1	577
62	Size- and shape-dependent catalytic performances of oxidation and reduction reactions on nanocatalysts. Chemical Society Reviews, 2016, 45, 4747-4765.	38.1	568
63	Zn_{1â€“x}Cd_xS Solid Solutions with Controlled Bandgap and Enhanced Visible-Light Photocatalytic H₂-Production Activity. ACS Catalysis, 2013, 3, 882-889.	11.2	565
64	Facile preparation and enhanced photocatalytic H2-production activity of Cu(OH)2 cluster modified TiO2. Energy and Environmental Science, 2011, 4, 1364.	30.8	554
65	Two-dimensional layered composite photocatalysts. Chemical Communications, 2014, 50, 10768.	4.1	551
66	An Inorganic/Organic Sâ€Scheme Heterojunction H₂â€Production Photocatalyst and its Charge Transfer Mechanism. Advanced Materials, 2021, 33, e2100317.	21.0	528
67	Effect of surface structure on photocatalytic activity of TiO2 thin films prepared by sol-gel method. Thin Solid Films, 2000, 379, 7-14.	1.8	519
68	Preparation and Photocatalytic Behavior of MoS2 and WS2 Nanocluster Sensitized TiO2. Langmuir, 2004, 20, 5865-5869.	3.5	519
69	2D/2D g-C₃N₄/MnO₂ Nanocomposite as a Direct Z-Scheme Photocatalyst for Enhanced Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 965-973.	6.7	519
70	Effects of acidic and basic hydrolysis catalysts on the photocatalytic activity and microstructures of bimodal mesoporous titania. Journal of Catalysis, 2003, 217, 69-69.	6.2	518
71	In Situ Grown Monolayer Nâ€Doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic CO₂ Reduction. Advanced Materials, 2019, 31, e1902868.	21.0	515
72	A review on TiO2-based Z-scheme photocatalysts. Chinese Journal of Catalysis, 2017, 38, 1936-1955.	14.0	511

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73	Pivotal role of fluorine in enhanced photocatalytic activity of anatase TiO2 nanosheets with dominant (001) facets for the photocatalytic degradation of acetone in air. Applied Catalysis B: Environmental, 2010, 96, 557-564.	20.2	509
74	Synthesis and Enhanced Visible-Light Photoelectrocatalytic Activity of pâ^'n Junction BiOI/TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2011, 115, 7339-7346.	3.1	503
75	Graphene-Based Photocatalysts for Hydrogen Generation. Journal of Physical Chemistry Letters, 2013, 4, 753-759.	4.6	501
76	A noble metal-free reduced graphene oxideâ€“CdS nanorod composite for the enhanced visible-light photocatalytic reduction of CO2 to solar fuel. Journal of Materials Chemistry A, 2014, 2, 3407.	10.3	499
77	Sulfur-doped g-C3N4/TiO2 S-scheme heterojunction photocatalyst for Congo Red photodegradation. Chinese Journal of Catalysis, 2021, 42, 56-68.	14.0	493
78	Enhanced photocatalytic activity and stability of Z-scheme Ag2CrO4-GO composite photocatalysts for organic pollutant degradation. Applied Catalysis B: Environmental, 2015, 164, 380-388.	20.2	483
79	Recent advances in visible light Bi-based photocatalysts. Chinese Journal of Catalysis, 2014, 35, 989-1007.	14.0	481
80	Enhanced photocatalytic activity of mesoporous TiO₂aggregates by embedding carbon nanotubes as electron-transfer channel. Physical Chemistry Chemical Physics, 2011, 13, 3491-3501.	2.8	476
81	Ag2CrO4/g-C3N4/graphene oxide ternary nanocomposite Z-scheme photocatalyst with enhanced CO2 reduction activity. Applied Catalysis B: Environmental, 2018, 231, 368-380.	20.2	469
82	Photocatalytic reduction of CO2 into hydrocarbon solar fuels over g-C3N4â€“Pt nanocomposite photocatalysts. Physical Chemistry Chemical Physics, 2014, 16, 11492.	2.8	465
83	Surface plasmon resonance-mediated photocatalysis by noble metal-based composites under visible light. Journal of Materials Chemistry, 2012, 22, 21337.	6.7	462
84	A new understanding of the photocatalytic mechanism of the direct Z-scheme g-C₃N₄/TiO₂heterostructure. Physical Chemistry Chemical Physics, 2016, 18, 31175-31183.	2.8	459
85	Enhanced photocatalytic H2-production activity of WO3/TiO2 step-scheme heterojunction by graphene modification. Chinese Journal of Catalysis, 2020, 41, 9-20.	14.0	458
86	Enhanced photocatalytic activity of mesoporous and ordinary TiO2 thin films by sulfuric acid treatment. Applied Catalysis B: Environmental, 2002, 36, 31-43.	20.2	450
87	Template-free Hydrothermal Synthesis of CuO/Cu₂O Composite Hollow Microspheres. Chemistry of Materials, 2007, 19, 4327-4334.	6.7	450
88	In situ Irradiated XPS Investigation on Sâ€Scheme TiO₂@ZnIn₂S₄ Photocatalyst for Efficient Photocatalytic CO₂ Reduction. Small, 2021, 17, e2103447.	10.0	449
89	Design and fabrication of semiconductor photocatalyst for photocatalytic reduction of CO2 to solar fuel. Science China Materials, 2014, 57, 70-100.	6.3	446
90	Hydrothermal Preparation and Photocatalytic Activity of Hierarchically Sponge-like Macro-/Mesoporous Titania. Journal of Physical Chemistry C, 2007, 111, 10582-10589.	3.1	443

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91	Review on Metal Sulphideâ€based Zâ€scheme Photocatalysts. ChemCatChem, 2019, 11, 1394-1411.	3.7	439
92	Enhancement of photocatalytic activity of mesoporous TiO2 by using carbon nanotubes. Applied Catalysis A: General, 2005, 289, 186-196.	4.3	434
93	Anatase TiO2 nanosheets with exposed (001) facets: improved photoelectric conversion efficiency in dye-sensitized solar cells. Nanoscale, 2010, 2, 2144.	5.6	423
94	Ag₂O as a New Visibleâ€Light Photocatalyst: Selfâ€Stability and High Photocatalytic Activity. Chemistry - A European Journal, 2011, 17, 7777-7780.	3.3	423
95	First principle investigation of halogen-doped monolayer g-C3N4 photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	20.2	422
96	Review on nanoscale Bi-based photocatalysts. Nanoscale Horizons, 2018, 3, 464-504.	8.0	421
97	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.	12.4	417
98	Noble metal-free Ni(OH)2â€“g-C3N4 composite photocatalyst with enhanced visible-light photocatalytic H2-production activity. Catalysis Science and Technology, 2013, 3, 1782.	4.1	411
99	Fabrication of Hollow Inorganic Microspheres by Chemically Induced Self-Transformation. Advanced Functional Materials, 2006, 16, 2035-2041.	14.9	407
100	CuInS2 sensitized TiO2 hybrid nanofibers for improved photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2018, 230, 194-202.	20.2	407
101	Constructing 2D/2D Fe₂O₃/gâ€C₃N₄ Direct Zâ€Scheme Photocatalysts with Enhanced H₂ Generation Performance. Solar Rrl, 2018, 2, 1800006.	5.8	403
102	Effects of Fe-doping on the photocatalytic activity of mesoporous TiO2 powders prepared by an ultrasonic method. Journal of Hazardous Materials, 2006, 137, 1838-1847.	12.4	401
103	One-step synthesis of easy-recycling TiO2-rGO nanocomposite photocatalysts with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2013, 132-133, 452-459.	20.2	396
104	Novel urea assisted hydrothermal synthesis of hierarchical BiVO4/Bi2O2CO3 nanocomposites with enhanced visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2011, 110, 286-295.	20.2	392
105	Enhanced Photocatalytic H₂-Production Activity of TiO₂ by Ni(OH)₂ Cluster Modification. Journal of Physical Chemistry C, 2011, 115, 4953-4958.	3.1	392
106	Fabrication and enhanced visible-light photocatalytic activity of carbon self-doped TiO₂sheets with exposed {001} facets. Journal of Materials Chemistry, 2011, 21, 1049-1057.	6.7	390
107	Effect of calcination temperature on morphology and photoelectrochemical properties of anodized titanium dioxide nanotube arrays. Applied Catalysis B: Environmental, 2010, 94, 295-302.	20.2	388
108	First-principle calculation study of tri-s-triazine-based g-C3N4: A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	20.2	382

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109	Semiconductor-based photocatalytic CO₂ conversion. Materials Horizons, 2015, 2, 261-278.	12.2	380
110	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.	20.2	375
111	Graphene-Based Photocatalysts for CO₂ Reduction to Solar Fuel. Journal of Physical Chemistry Letters, 2015, 6, 4244-4251.	4.6	368
112	Direct Observation of Structural Evolution of Metal Chalcogenide in Electrocatalytic Water Oxidation. ACS Nano, 2018, 12, 12369-12379.	14.6	366
113	Self-assembled hierarchical direct Z-scheme g-C3N4/ZnO microspheres with enhanced photocatalytic CO2 reduction performance. Applied Surface Science, 2018, 441, 12-22.	6.1	364
114	Ni(OH)2 modified CdS nanorods for highly efficient visible-light-driven photocatalytic H2 generation. Green Chemistry, 2011, 13, 2708.	9.0	363
115	The effect of manganese vacancy in birnessite-type MnO2 on room-temperature oxidation of formaldehyde in air. Applied Catalysis B: Environmental, 2017, 204, 147-155.	20.2	362
116	Microstructures and photoactivity of mesoporous anatase hollow microspheres fabricated by fluoride-mediated self-transformation. Journal of Catalysis, 2007, 249, 59-66.	6.2	359
117	Morphology-dependent photocatalytic H2-production activity of CdS. Applied Catalysis B: Environmental, 2014, 156-157, 184-191.	20.2	359
118	Enhanced photocatalytic activity of hierarchical macro/mesoporous TiO2â€“graphene composites for photodegradation of acetone in air. Applied Catalysis B: Environmental, 2012, 119-120, 109-116.	20.2	356
119	Making co-condensed amorphous carbon/g-C3N4 composites with improved visible-light photocatalytic H2-production performance using Pt as cocatalyst. Carbon, 2017, 118, 241-249.	10.3	356
120	Enhanced Performance of NaOH-Modified Pt/TiO₂ toward Room Temperature Selective Oxidation of Formaldehyde. Environmental Science & Technology, 2013, 47, 2777-2783.	10.0	355
121	A critical review of the application of chelating agents to enable Fenton and Fenton-like reactions at high pH values. Journal of Hazardous Materials, 2019, 362, 436-450.	12.4	353
122	Effects of calcination temperature on the microstructures and photocatalytic activity of titanate nanotubes. Journal of Molecular Catalysis A, 2006, 249, 135-142.	4.8	352
123	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.	12.4	343
124	Hollow CoS_x Polyhedrons Act as High-Efficiency Cocatalyst for Enhancing the Photocatalytic Hydrogen Generation of g-C₃N₄. ACS Sustainable Chemistry and Engineering, 2018, 6, 2767-2779.	6.7	343
125	Nitrogen self-doped nanosized TiO2 sheets with exposed {001} facets for enhanced visible-light photocatalytic activity. Chemical Communications, 2011, 47, 6906.	4.1	342
126	Facet effect of Pd cocatalyst on photocatalytic CO 2 reduction over g-C 3 N 4. Journal of Catalysis, 2017, 349, 208-217.	6.2	332

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127	Photocatalytic activity of nanometer TiO2 thin films prepared by the solâ€“gel method. Materials Chemistry and Physics, 2001, 69, 25-29.	4.0	329
128	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.	12.4	329
129	Challenges for photocatalytic overall water splitting. CheM, 2022, 8, 1567-1574.	11.7	329
130	Improved visible-light photocatalytic activity of porous carbon self-doped ZnO nanosheet-assembled flowers. CrystEngComm, 2011, 13, 2533.	2.6	328
131	Enhanced visible light photocatalytic H2-production of g-C3N4/WS2 composite heterostructures. Applied Surface Science, 2015, 358, 196-203.	6.1	327
132	TiO2 nanosheets with exposed {001} facets for photocatalytic applications. Nano Research, 2016, 9, 3-27.	10.4	327
133	Direct Sonochemical Preparation and Characterization of Highly Active Mesoporous TiO2 with a Bicrystalline Framework. Chemistry of Materials, 2002, 14, 4647-4653.	6.7	325
134	Tailoring the energy band gap and edgesâ€™ potentials of g-C 3 N 4 /TiO 2 composite photocatalysts for NO x removal. Chemical Engineering Journal, 2017, 310, 571-580.	12.7	325
135	Highly efficient electrosynthesis of hydrogen peroxide on a superhydrophobic three-phase interface by natural air diffusion. Nature Communications, 2020, 11, 1731.	12.8	325
136	Design, Fabrication, and Mechanism of Nitrogenâ€Doped Grapheneâ€Based Photocatalyst. Advanced Materials, 2021, 33, e2003521.	21.0	324
137	Fabrication of NiS modified CdS nanorod pâ€“n junction photocatalysts with enhanced visible-light photocatalytic H2-production activity. Physical Chemistry Chemical Physics, 2013, 15, 12088.	2.8	323
138	Preparation of highly photocatalytic active nano-sized TiO2 particles via ultrasonic irradiation. Chemical Communications, 2001, , 1942-1943.	4.1	321
139	Preparation and enhanced visible-light photocatalytic H2-production activity of CdS quantum dots-sensitized Zn1â^'xCdxS solid solution. Green Chemistry, 2010, 12, 1611.	9.0	321
140	Microwave-assisted hydrothermal synthesis of graphene based Auâ€“TiO₂ photocatalysts for efficient visible-light hydrogen production. Journal of Materials Chemistry A, 2014, 2, 3847-3855.	10.3	314
141	Pt Single Atoms Supported on Nâ€Doped Mesoporous Hollow Carbon Spheres with Enhanced Electrocatalytic H₂â€Evolution Activity. Advanced Materials, 2021, 33, e2008599.	21.0	314
142	Coreâ€“Shell Nitrogenâ€Doped Carbon Hollow Spheres/Co₃O₄ Nanosheets as Advanced Electrode for Highâ€Performance Supercapacitor. Small, 2018, 14, e1702407.	10.0	309
143	Metalâ€“Organic Framework-Derived Nickelâ€“Cobalt Sulfide on Ultrathin Mxene Nanosheets for Electrocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2018, 10, 22311-22319.	8.0	306
144	TiO2/polydopamine S-scheme heterojunction photocatalyst with enhanced CO2-reduction selectivity. Applied Catalysis B: Environmental, 2021, 289, 120039.	20.2	302

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145	Recent advances in g-C3N4-based heterojunction photocatalysts. Journal of Materials Science and Technology, 2020, 56, 1-17.	10.7	297
146	Photocatalytic hydrogen production over CuO-modified titania. Journal of Colloid and Interface Science, 2011, 357, 223-228.	9.4	292
147	Hydrothermal Synthesis and Visible-light Photocatalytic Activity of Novel Cage-like Ferric Oxide Hollow Spheres. Crystal Growth and Design, 2009, 9, 1474-1480.	3.0	291
148	Hydrothermal preparation and visible-light photocatalytic activity of Bi2WO6 powders. Journal of Solid State Chemistry, 2005, 178, 1968-1972.	2.9	288
149	The synergistic effect of graphitic N and pyrrolic N for the enhanced photocatalytic performance of nitrogen-doped graphene/TiO2 nanocomposites. Applied Catalysis B: Environmental, 2016, 181, 810-817.	20.2	287
150	In Situ Fabrication of Niâ€“Mo Bimetal Sulfide Hybrid as an Efficient Electrocatalyst for Hydrogen Evolution over a Wide pH Range. ACS Catalysis, 2017, 7, 6179-6187.	11.2	287
151	Singleâ€Atom Engineering of Directional Charge Transfer Channels and Active Sites for Photocatalytic Hydrogen Evolution. Advanced Functional Materials, 2018, 28, 1802169.	14.9	287
152	Sâ€Scheme Heterojunction TiO₂/CdS Nanocomposite Nanofiber as H₂â€Production Photocatalyst. ChemCatChem, 2019, 11, 6301-6309.	3.7	286
153	Photocatalytic H2 evolution on graphdiyne/g-C3N4 hybrid nanocomposites. Applied Catalysis B: Environmental, 2019, 255, 117770.	20.2	284
154	Nitrogen and sulfur co-doped TiO₂nanosheets with exposed {001} facets: synthesis, characterization and visible-light photocatalytic activity. Physical Chemistry Chemical Physics, 2011, 13, 4853-4861.	2.8	282
155	Simultaneously Tuning Charge Separation and Oxygen Reduction Pathway on Graphitic Carbon Nitride by Polyethylenimine for Boosted Photocatalytic Hydrogen Peroxide Production. ACS Catalysis, 2020, 10, 3697-3706.	11.2	275
156	Ion-Exchange Synthesis and Enhanced Visible-Light Photoactivity of CuS/ZnS Nanocomposite Hollow Spheres. Journal of Physical Chemistry C, 2010, 114, 13642-13649.	3.1	274
157	Effect of Crystallization Methods on Morphology and Photocatalytic Activity of Anodized TiO₂Nanotube Array Films. Journal of Physical Chemistry C, 2010, 114, 19378-19385.	3.1	271
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159	S-scheme heterojunction based on p-type ZnMn2O4 and n-type ZnO with improved photocatalytic CO2 reduction activity. Chemical Engineering Journal, 2021, 409, 127377.	12.7	269
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