Bicheng Zhu

List of Publications by Year
in descending order

35 papers	9,160 citations	172457 29 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	7080 citing authors

#	Article	IF	Citations
1	Hierarchical Porous Oâ€Doped gâ€C₃N₄ with Enhanced Photocatalytic CO₂ Reduction Activity. Small, 2017, 13, 1603938.	10.0	1,025
2	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
3	Direct Z-scheme ZnO/CdS hierarchical photocatalyst for enhanced photocatalytic H2-production activity. Applied Catalysis B: Environmental, 2019, 243, 19-26.	20.2	653
4	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
5	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
6	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
7	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
8	First principle investigation of halogen-doped monolayer g-C3N4 photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	20.2	422
9	Constructing 2D/2D Fe₂O₃/gâ€C₃N₄ Direct Zâ€Scheme Photocatalysts with Enhanced H₂ Generation Performance. Solar Rrl, 2018, 2, 1800006.	5.8	403
10	Direct Z-scheme TiO2/CdS hierarchical photocatalyst for enhanced photocatalytic H2-production activity. Applied Surface Science, 2017, 422, 518-527.	6.1	397
11	First-principle calculation study of tri-s-triazine-based g-C3N4: A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	20.2	382
12	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
13	Designing Defective Crystalline Carbon Nitride to Enable Selective CO₂ Photoreduction in the Gas Phase. Advanced Functional Materials, 2019, 29, 1900093.	14.9	254
14	Enhanced photocatalytic H2 production on CdS nanorod using cobalt-phosphate as oxidation cocatalyst. Applied Surface Science, 2016, 389, 775-782.	6.1	212
15	Graphdiyne: A New Photocatalytic CO₂ Reduction Cocatalyst. Advanced Functional Materials, 2019, 29, 1904256.	14.9	207
16	Review on DFT calculation of sâ€triazineâ€based carbon nitride. , 2019, 1, 32-56.		193
17	Shape-dependent photocatalytic hydrogen evolution activity over a Pt nanoparticle coupled g-C₃N₄ photocatalyst. Physical Chemistry Chemical Physics, 2016, 18, 19457-19463.	2.8	190
18	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. Sensors and Actuators B: Chemical, 2021, 331, 129425.	7.8	174

#	Article	IF	Citations
19	Optimizing Atomic Hydrogen Desorption of Sulfurâ€Rich NiS₁₊_x Cocatalyst for Boosting Photocatalytic H₂ Evolution. Advanced Materials, 2022, 34, e2108475.	21.0	156
20	Adsorption investigation of CO2 on g-C3N4 surface by DFT calculation. Journal of CO2 Utilization, 2017, 21, 327-335.	6.8	134
21	gâ€C₃N₄â€Based 2D/2D Composite Heterojunction Photocatalyst. Small Structures, 2021, 2, 2100086.	12.0	127
22	Enhanced Photocatalytic H₂â€Production Activity of CdS Quantum Dots Using Sn²⁺ as Cocatalyst under Visible Light Irradiation. Small, 2020, 16, e2001024.	10.0	124
23	EPR Investigation on Electron Transfer of 2D/3D gâ€C₃N₄/ZnO Sâ€Scheme Heterojunction for Enhanced CO₂ Photoreduction. Advanced Sustainable Systems, 2022, 6, 2100264.	5.3	112
24	In-situ preparation of TiO2/N-doped graphene hollow sphere photocatalyst with enhanced photocatalytic CO2 reduction performance. Chinese Journal of Catalysis, 2021, 42, 1648-1658.	14.0	86
25	Tuning the strength of built-in electric field in 2D/2D g-C3N4/SnS2 and g-C3N4/ZrS2 S-scheme heterojunctions by nonmetal doping. Journal of Materiomics, 2021, 7, 988-997.	5.7	77
26	Emerging 2D/0D g-C3N4/SnO2 S-scheme photocatalyst: New generation architectural structure of heterojunctions toward visible-light-driven NO degradation. Environmental Pollution, 2021, 286, 117510.	7.5	60
27	0D/2D NiS/CdS nanocomposite heterojunction photocatalyst with enhanced photocatalytic H2 evolution activity. Applied Surface Science, 2021, 554, 149622.	6.1	48
28	0D/2D CdS/ZnO composite with n-n heterojunction for efficient detection of triethylamine. Journal of Colloid and Interface Science, 2021, 600, 898-909.	9.4	44
29	H2O molecule adsorption on s-triazine-based g-C3N4. Chinese Journal of Catalysis, 2021, 42, 115-122.	14.0	42
30	Synergy between Platinum and Gold Nanoparticles in Oxygen Activation for Enhanced Roomâ€Temperature Formaldehyde Oxidation. Advanced Functional Materials, 2022, 32, .	14.9	37
31	Novel core-shell Ag@AgSe nanoparticle co-catalyst: In situ surface selenization for efficient photocatalytic H2 production of TiO2. Chinese Journal of Catalysis, 2022, 43, 1074-1083.	14.0	30
32	A novel Fenton-like catalyst of Ag3PO4/g-C3N4: Its performance and mechanism for tetracycline hydrochloride degradation in dark. Applied Surface Science, 2022, 571, 151305.	6.1	28
33	ZIF-8 derived ZnO-CsPbBr3 polyhedrons for efficient triethylamine detection. Sensors and Actuators B: Chemical, 2022, 357, 131366.	7.8	22
34	A Comparative Study of Cobalt Chalcogenides as the Electrode Materials on Lithiumâ€Sulfur Battery Performance. Small Methods, 2022, 6, e2101269.	8.6	14
35	New Carbon Nitride C₃N₃ Additive for Improving Cationic Defects of Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	12