Bicheng Zhu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	New Carbon Nitride C ₃ N ₃ Additive for Improving Cationic Defects of Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	12
2	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
3	EPR Investigation on Electron Transfer of 2D/3D g ₃ N ₄ /ZnO S cheme Heterojunction for Enhanced CO ₂ Photoreduction. Advanced Sustainable Systems, 2022, 6, 2100264.	5.3	112
4	Optimizing Atomic Hydrogen Desorption of Sulfurâ€Rich NiS ₁₊ <i>_x</i> Cocatalyst for Boosting Photocatalytic H ₂ Evolution. Advanced Materials, 2022, 34, e2108475.	21.0	156
5	ZIF-8 derived ZnO-CsPbBr3 polyhedrons for efficient triethylamine detection. Sensors and Actuators B: Chemical, 2022, 357, 131366.	7.8	22
6	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
7	A Comparative Study of Cobalt Chalcogenides as the Electrode Materials on Lithiumâ€Sulfur Battery Performance. Small Methods, 2022, 6, e2101269.	8.6	14
8	Synergy between Platinum and Gold Nanoparticles in Oxygen Activation for Enhanced Roomâ€Temperature Formaldehyde Oxidation. Advanced Functional Materials, 2022, 32, .	14.9	37
9	H2O molecule adsorption on s-triazine-based g-C3N4. Chinese Journal of Catalysis, 2021, 42, 115-122.	14.0	42
10	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. Sensors and Actuators B: Chemical, 2021, 331, 129425.	7.8	174
11	0D/2D NiS/CdS nanocomposite heterojunction photocatalyst with enhanced photocatalytic H2 evolution activity. Applied Surface Science, 2021, 554, 149622.	6.1	48
12	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
13	g ₃ N ₄ â€Based 2D/2D Composite Heterojunction Photocatalyst. Small Structures, 2021, 2, 2100086.	12.0	127
14	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
15	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
16	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
17	Enhanced Photocatalytic H ₂ â€Production Activity of CdS Quantum Dots Using Sn ²⁺ as Cocatalyst under Visible Light Irradiation. Small, 2020, 16, e2001024.	10.0	124
18	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

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#	Article	IF	CITATIONS
19	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
20	Graphdiyne: A New Photocatalytic CO ₂ Reduction Cocatalyst. Advanced Functional Materials, 2019, 29, 1904256.	14.9	207
21	Review on DFT calculation of <i>s</i> â€ŧriazineâ€based carbon nitride. , 2019, 1, 32-56.		193
22	In Situ Grown Monolayer Nâ€Doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic CO ₂ Reduction. Advanced Materials, 2019, 31, e1902868.	21.0	515
23	Designing Defective Crystalline Carbon Nitride to Enable Selective CO ₂ Photoreduction in the Gas Phase. Advanced Functional Materials, 2019, 29, 1900093.	14.9	254
24	Direct Z-scheme ZnO/CdS hierarchical photocatalyst for enhanced photocatalytic H2-production activity. Applied Catalysis B: Environmental, 2019, 243, 19-26.	20.2	653
25	Constructing 2D/2D Fe ₂ O ₃ /gâ€C ₃ N ₄ Direct Zâ€6cheme Photocatalysts with Enhanced H ₂ Generation Performance. Solar Rrl, 2018, 2, 1800006.	5.8	403
26	First-principle calculation study of tri-s-triazine-based g-C3N4: A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	20.2	382
27	Hierarchical Porous Oâ€Doped gâ€C ₃ N ₄ with Enhanced Photocatalytic CO ₂ Reduction Activity. Small, 2017, 13, 1603938.	10.0	1,025
28	First principle investigation of halogen-doped monolayer g-C3N4 photocatalyst. Applied Catalysis B: Environmental, 2017, 207, 27-34.	20.2	422
29	Direct Z-scheme TiO2/CdS hierarchical photocatalyst for enhanced photocatalytic H2-production activity. Applied Surface Science, 2017, 422, 518-527.	6.1	397
30	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
31	Adsorption investigation of CO2 on g-C3N4 surface by DFT calculation. Journal of CO2 Utilization, 2017, 21, 327-335.	6.8	134
32	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO ₂ reduction. Journal of Materials Chemistry A, 2017, 5, 3230-3238.	10.3	621
33	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
34	Enhanced photocatalytic H2 production on CdS nanorod using cobalt-phosphate as oxidation cocatalyst. Applied Surface Science, 2016, 389, 775-782.	6.1	212
35	Shape-dependent photocatalytic hydrogen evolution activity over a Pt nanoparticle coupled g-C ₃ N ₄ photocatalyst. Physical Chemistry Chemical Physics, 2016, 18, 19457-19463.	2.8	190