

Zhi-Bin Fang

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,131
citations

279798

23
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

2526
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting Interfacial Charge-Transfer Kinetics for Efficient Overall CO ₂ Photoreduction via Rational Design of Coordination Spheres on Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 12515-12523.	13.7	289
2	Defect Engineering and Phase Junction Architecture of Wide-Bandgap ZnS for Conflicting Visible Light Activity in Photocatalytic H ₂ Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13915-13924.	8.0	193
3	Constructing atomic layer g-C ₃ N ₄ -CdS nanoheterojunctions with efficiently enhanced visible light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21280-21288.	2.8	147
4	Record Complexity in the Polycatenation of Three Porous Hydrogen-Bonded Organic Frameworks with Stepwise Adsorption Behaviors. <i>Journal of the American Chemical Society</i> , 2020, 142, 7218-7224.	13.7	132
5	Visible-light-driven photocatalytic H ₂ evolution over CdZnS nanocrystal solid solutions: interplay of twin structures, sulfur vacancies and sacrificial agents. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3882-3891.	10.3	121
6	Simultaneous Realization of Enhanced Photoactivity and Promoted Photostability by Multilayered MoS ₂ Coating on CdS Nanowire Structure via Compact Coating Methodology. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6950-6958.	8.0	110
7	Hydrogen Production from Pure Water via Piezoelectric-Assisted Visible-Light Photocatalysis of CdS Nanorod Arrays. <i>ChemCatChem</i> , 2018, 10, 3397-3401.	3.7	86
8	Study on water splitting characteristics of CdS nanosheets driven by the coupling effect between photocatalysis and piezoelectricity. <i>Nanoscale</i> , 2019, 11, 9085-9090.	5.6	85
9	In situ construction of a novel Bi/CdS nanocomposite with enhanced visible light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 510-519.	20.2	81
10	Metallization-Prompted Robust Porphyrin-Based Hydrogen-Bonded Organic Frameworks for Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	81
11	Construction of Teethlike Homojunction BiOCl (001) Nanosheets by Selective Etching and Its High Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18423-18428.	8.0	77
12	Creating Chemisorption Sites for Enhanced CO ₂ Photoreduction Activity through Alkylamine Modification of MIL-101-Cr. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27017-27023.	8.0	67
13	Near-infrared-activated NaYF ₄ :Yb ³⁺ , Er ³⁺ /Au/CdS for H ₂ production via photoreforming of bio-ethanol: plasmonic Au as light nanoantenna, energy relay, electron sink and co-catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10311-10320.	10.3	65
14	A Comparison of Two Isoreticular Metal-Organic Frameworks with Cationic and Neutral Skeletons: Stability, Mechanism, and Catalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4385-4390.	13.8	56
15	Dual-defective strategy directing in situ assembly for effective interfacial contacts in MoS ₂ cocatalyst/In ₂ S ₃ light harvester layered photocatalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13980-13988.	10.3	55
16	Grain boundary engineering in organic-inorganic hybrid semiconductor ZnS(en) _{0.5} for visible-light photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1387-1393.	10.3	55
17	Ag-modified ultrathin Bi ₁₂ O ₁₇ Cl ₂ nanosheets: photo-assisted Ag exfoliation synthesis and enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9200-9208.	10.3	53
18	Integrating active C ₃ N ₄ moieties in hydrogen-bonded organic frameworks for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4687-4691.	10.3	45

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19	Partial Metalation of Porphyrin Moieties in Hydrogen-Bonded Organic Frameworks Provides Enhanced CO ₂ Photoreduction Activity. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	42
20	Creating Giant Secondary Building Layers via Alkali-Etching Exfoliation for Precise Synthesis of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2019, 31, 7584-7589.	6.7	35
21	Enhanced selectivity of methane production for photocatalytic reduction by the piezoelectric effect. <i>Chemical Communications</i> , 2017, 53, 9765-9768.	4.1	32
22	Engineering Hierarchical Architecture of Metal-Organic Frameworks for Highly Efficient Overall CO ₂ Photoreduction. <i>Small</i> , 2022, 18, e2200407.	10.0	29
23	An easy and low-cost method of embedding chiral molecules in metal-organic frameworks for enantioseparation. <i>Chemical Communications</i> , 2020, 56, 7459-7462.	4.1	25
24	¹ Rational design of a charge shunt: modification upon crystal facet engineering of semiconductor photocatalysts. <i>Chemical Communications</i> , 2015, 51, 11186-11189.	4.1	22
25	Predictive model for optimizing the near-field electromagnetic energy transfer in plasmonic nanostructure-involved photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 143-150.	20.2	20
26	Radiochromic Hydrogen-Bonded Organic Frameworks for X-ray Detection. <i>Chemistry - A European Journal</i> , 2021, 27, 10957-10965.	3.3	18
27	Facile Preparation of Hydrogen-Bonded Organic Framework/Cu ₂ O Heterostructure Films via Electrophoretic Deposition for Efficient CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21050-21058.	8.0	16
28	Metallization-Prompted Robust Porphyrin-Based Hydrogen-Bonded Organic Frameworks for Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	15
29	Synthesis of single-crystal-like TiO ₂ hierarchical spheres with exposed {101} and {111} facets via lysine-inspired method. <i>Applied Surface Science</i> , 2015, 353, 714-722.	6.1	14
30	A visualized probe method for localization of surface oxygen vacancy on TiO ₂ : Au in situ reduction. <i>Nanoscale</i> , 2015, 7, 17488-17495.	5.6	14
31	A visualizable means for verifying the manner of charge transfer in WO ₃ -based type-II heterostructures. <i>Nanoscale</i> , 2019, 11, 7825-7832.	5.6	14
32	Controllable sulphur vacancies confined in nanoporous ZnS nanoplates for visible-light photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2021, 57, 8186-8189.	4.1	14
33	A Comparison of Two Isoreticular Metal-Organic Frameworks with Cationic and Neutral Skeletons: Stability, Mechanism, and Catalytic Activity. <i>Angewandte Chemie</i> , 2020, 132, 4415-4420.	2.0	10
34	Trace of molecular doping in metal-organic frameworks: drastic change in the electronic band structure with a preserved topology and porosity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12370-12377.	10.3	9
35	Partial Metalation of Porphyrin Moieties in Hydrogen-Bonded Organic Frameworks Provides Enhanced CO ₂ Photoreduction Activity. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4