

# Zhifeng Jiang

## List of Publications by Year in descending order

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57  
papers

4,448  
citations

101496  
36  
h-index

143943  
57  
g-index

57  
all docs

57  
docs citations

57  
times ranked

5687  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Hierarchical Fe <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Hybrid for Enhanced Photocatalytic CO <sub>2</sub> Reduction. <i>Advanced Materials</i> , 2018, 30, 1706108.	11.1	761
2	Porous nitrogen-rich g-C <sub>3</sub> N <sub>4</sub> nanotubes for efficient photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117854.	10.8	271
3	Modifiers-assisted formation of nickel nanoparticles and their catalytic application to p-nitrophenol reduction. <i>CrystEngComm</i> , 2013, 15, 560-569.	1.3	244
4	Constructing graphite-like carbon nitride modified hierarchical yolk-shell TiO <sub>2</sub> spheres for water pollution treatment and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1806-1818.	5.2	228
5	Nature-based catalyst for visible-light-driven photocatalytic CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , 2018, 11, 2382-2389.	15.6	198
6	A new visible light active multifunctional ternary composite based on TiO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> nanocrystals heterojunction decorated porous graphitic carbon nitride for photocatalytic treatment of hazardous pollutant and H <sub>2</sub> evolution. <i>Applied Catalysis B: Environmental</i> , 2015, 170-171, 195-205.	10.8	160
7	CeO <sub>2</sub> nanocrystal-modified layered MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> as 0D/2D ternary composite for visible-light photocatalytic hydrogen evolution: Interfacial consecutive multi-step electron transfer and enhanced H <sub>2</sub> O reactant adsorption. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118072.	10.8	158
8	Silver-loaded nitrogen-doped yolk-shell mesoporous TiO <sub>2</sub> hollow microspheres with enhanced visible light photocatalytic activity. <i>Nanoscale</i> , 2015, 7, 784-797.	2.8	157
9	Removal of cationic dyes from aqueous solution by adsorption onto hydrophobic/hydrophilic silica aerogel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 539-549.	2.3	150
10	Carbon nitride coupled with CdS-TiO <sub>2</sub> nanodots as 2D/0D ternary composite with enhanced photocatalytic H <sub>2</sub> evolution: A novel efficient three-level electron transfer process. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 194-204.	10.8	133
11	Facile route fabrication of nano-Ni core mesoporous-silica shell particles with high catalytic activity towards 4-nitrophenol reduction. <i>CrystEngComm</i> , 2012, 14, 4601.	1.3	109
12	Enhanced Visible-Light-Driven Photocatalytic Bacterial Inactivation by Ultrathin Carbon-Coated Magnetic Cobalt Ferrite Nanoparticles. <i>Environmental Science &amp; Technology</i> , 2018, 52, 4774-4784.	4.6	108
13	Photo-assisted separation of noble-metal-free oxidation and reduction cocatalysts for graphitic carbon nitride nanosheets with efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119456.	10.8	91
14	In situ synthesis of silver supported nanoporous iron oxide microbox hybrids from metal-organic frameworks and their catalytic application in p-nitrophenol reduction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2550-2559.	1.3	76
15	AgInS <sub>2</sub> /In <sub>2</sub> S <sub>3</sub> heterostructure sensitization of Escherichia coli for sustainable hydrogen production. <i>Nano Energy</i> , 2018, 46, 234-240.	8.2	76
16	Enhanced CO <sub>2</sub> reduction and valuable C <sub>2+</sub> chemical production by a CdS-photosynthetic hybrid system. <i>Nanoscale</i> , 2019, 11, 9296-9301.	2.8	71
17	Bamboo leaf-assisted formation of carbon/nitrogen co-doped anatase TiO <sub>2</sub> modified with silver and graphitic carbon nitride: novel and green synthesis and cooperative photocatalytic activity. <i>Dalton Transactions</i> , 2014, 43, 13792.	1.6	70
18	Natural leaves-assisted synthesis of nitrogen-doped, carbon-rich nanodots-sensitized, Ag-loaded anatase TiO <sub>2</sub> square nanosheets with dominant {001} facets and their enhanced catalytic applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14963.	5.2	69

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19	Photocatalytic Bacterial Inactivation by a Rape Pollen-MoS <sub>2</sub> Biohybrid Catalyst: Synergetic Effects and Inactivation Mechanisms. <i>Environmental Science &amp; Technology</i> , 2020, 54, 537-549.	4.6	69
20	Defect-Dependent Near-Infrared-Driven Photocatalytic Bacterial Inactivation by Defective Bi <sub>2</sub> S <sub>3</sub> nanorods. <i>ChemSusChem</i> , 2019, 12, 890-897.	3.6	68
21	In situ synthesis of bimetallic Ag/Pt loaded single-crystalline anatase TiO <sub>2</sub> hollow nano-hemispheres and their improved photocatalytic properties. <i>CrystEngComm</i> , 2014, 16, 2384.	1.3	64
22	In situ chemical transformation synthesis of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> /BiOCl 2D/2D heterojunction systems for water pollution treatment and hydrogen production. <i>Catalysis Science and Technology</i> , 2017, 7, 3863-3875.	2.1	62
23	Biohybrid photoheterotrophic metabolism for significant enhancement of biological nitrogen fixation in pure microbial cultures. <i>Energy and Environmental Science</i> , 2019, 12, 2185-2191.	15.6	61
24	M <sub>X</sub> P (M = Co/Ni)@carbon core-shell nanoparticles embedded in 3D cross-linked graphene aerogel derived from seaweed biomass for hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 9698-9706.	2.8	58
25	Characterization and comparison of uniform hydrophilic/hydrophobic transparent silica aerogel beads: skeleton strength and surface modification. <i>RSC Advances</i> , 2015, 5, 55579-55587.	1.7	56
26	Visible-light-driven photocatalytic inactivation of Escherichia coli K-12 over thermal treated natural magnetic sphalerite: Band structure analysis and toxicity evaluation. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 541-552.	10.8	49
27	Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics. <i>ACS Nano</i> , 2022, 16, 4152-4161.	7.3	47
28	Gentle way to build reduced titanium dioxide nanodots integrated with graphite-like carbon spheres: From DFT calculation to experimental measurement. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 283-295.	10.8	45
29	X-Shaped FeOOH with Enhanced Charge Separation for Visible-Light-Driven Photocatalytic Overall Water Splitting. <i>ChemSusChem</i> , 2018, 11, 1365-1373.	3.6	45
30	Biomass-derived multifunctional TiO <sub>2</sub> /carbonaceous aerogel composite as a highly efficient photocatalyst. <i>RSC Advances</i> , 2016, 6, 25255-25266.	1.7	44
31	Facile synthesis of oxygen defective yolk-shell BiO <sub>2</sub> for visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> . <i>Journal of Materials Chemistry A</i> , 2018, 6, 4997-5005.	5.2	44
32	Solar-light-driven rapid water disinfection by ultrathin magnesium titanate/carbon nitride hybrid photocatalyst: Band structure analysis and role of reactive oxygen species. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117898.	10.8	42
33	Ultrafine Bi <sub>3</sub> TaO <sub>7</sub> Nanodot-Decorated V, N Codoped TiO <sub>2</sub> Nanoblocks for Visible-Light Photocatalytic Activity: Interfacial Effect and Mechanism Insight. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13011-13021.	4.0	41
34	Structure defects promoted exciton dissociation and carrier separation for enhancing photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118480.	10.8	40
35	Natural carbon nanodots assisted development of size-tunable metal (Pd, Ag) nanoparticles grafted on bionic dendritic Fe <sub>2</sub> O <sub>3</sub> for cooperative catalytic applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23607-23620.	5.2	39
36	Chrysanthemum-like FeS/Ni <sub>3</sub> S <sub>2</sub> heterostructure nanoarray as a robust bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 536-548.	5.0	39

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37	Recent Progress on Carbon Nitride and Its Hybrid Photocatalysts for CO <sub>2</sub> Reduction. Solar Rrl, 2021, 5, 2000478.	3.1	34
38	Interfacing Iodine-Doped Hydrothermally Carbonized Carbon with <i>Escherichia coli</i> through an Add-on Mode for Enhanced Light-Driven Hydrogen Production. Advanced Energy Materials, 2021, 11, 2100291.	10.2	34
39	<i>In situ</i> confined vertical growth of a 1D-CuCo <sub>2</sub> S <sub>4</sub> nanoarray on Ni foam covered by a 3D-PANI mesh layer to form a self-supporting hierarchical structure for high-efficiency oxygen evolution catalysis. Nanoscale, 2019, 11, 12326-12336.	2.8	31
40	Treated rape pollen: a metal-free visible-light-driven photocatalyst from nature for efficient water disinfection. Journal of Materials Chemistry A, 2019, 7, 9335-9344.	5.2	30
41	In Situ Cu-Loaded Porous Boron Nitride Nanofiber as an Efficient Adsorbent for CO <sub>2</sub> Capture. ACS Sustainable Chemistry and Engineering, 2020, 8, 7454-7462.	3.2	30
42	Panoramic insights into semi-artificial photosynthesis: origin, development, and future perspective. Energy and Environmental Science, 2022, 15, 529-549.	15.6	30
43	In situ growth of Ag/Ag <sub>2</sub> O nanoparticles on g-C <sub>3</sub> N <sub>4</sub> by a natural carbon nanodot-assisted green method for synergistic photocatalytic activity. RSC Advances, 2016, 6, 3186-3197.	1.7	29
44	Constructing mesoporous Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> with enhanced visible light photocatalytic activity. Materials Letters, 2016, 183, 303-306.	1.3	24
45	L-cysteine-assisted synthesis of hierarchical NiS <sub>2</sub> hollow spheres supported carbon nitride as photocatalysts with enhanced lifetime. Nanotechnology, 2017, 28, 115708.	1.3	23
46	Fabrication of noble-metal-free NiS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> hybrid photocatalysts with visible light-responsive photocatalytic activities. Research on Chemical Intermediates, 2016, 42, 6483-6499.	1.3	21
47	Controlled self-assembly synthesis of CuCo <sub>2</sub> O <sub>4</sub> /rGO for improving the morphology-dependent electrochemical oxygen evolution performance. Applied Surface Science, 2019, 493, 710-718.	3.1	21
48	Nitrogen-Doped Bimetallic Carbide-Graphite Composite as Highly Active and Extremely Stable Electrocatalyst for Oxygen Reduction Reaction in Alkaline Media. Advanced Functional Materials, 2022, 32, .	7.8	21
49	Construction of brown mesoporous carbon nitride with a wide spectral response for high performance photocatalytic H <sub>2</sub> evolution. Inorganic Chemistry Frontiers, 2021, 9, 103-110.	3.0	17
50	A Comparative Study of Hydrodeoxygenation of Furfural Over Fe/Pt(111) and Fe/Mo <sub>2</sub> C Surfaces. Topics in Catalysis, 2018, 61, 439-445.	1.3	13
51	Controllable synthesis of magnetic Fe <sub>3</sub> O <sub>4</sub> encapsulated semimetal Bi nanospheres with excellent stability and catalytic activity. Journal of Materials Science, 2018, 53, 13886-13899.	1.7	11
52	The effect of solvent parameters on properties of iron-based silica binary aerogels as adsorbents. Journal of Colloid and Interface Science, 2019, 549, 189-200.	5.0	9
53	NiCoP nanoparticles encapsulated in cross-linked graphene aerogel to efficient hydrogen evolution reaction. Journal of Materials Science: Materials in Electronics, 2020, 31, 13521-13530.	1.1	8
54	All-solid-state Z-scheme heterostructures of 1T/2H-MoS <sub>2</sub> nanosheets coupled V-doped hierarchical TiO <sub>2</sub> spheres for enhanced photocatalytic activity. Materials Today Energy, 2022, 23, 100901.	2.5	8

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55	Angstrom-sized tungsten carbide promoted platinum electrocatalyst for effective oxygen reduction reaction and resource saving. RSC Advances, 2015, 5, 96488-96494.	1.7	6
56	Surface-amino-induced boosting solar conversion of CO <sub>2</sub> to CO over natural metal-free catalyst. Journal of CO <sub>2</sub> Utilization, 2021, 54, 101773.	3.3	4
57	Recent Progress on Carbon Nitride and Its Hybrid Photocatalysts for CO <sub>2</sub> Reduction. Solar Rrl, 2021, 5, 2170022.	3.1	1