

# Jinbo Xue

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,186  
citations

361413

20  
h-index

395702

33  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1037  
citing authors

#	ARTICLE	IF	CITATIONS
1	A promoted photocatalysis system trade-off between thermodynamic and kinetic via hierarchical distribution dual-defects for efficient H <sub>2</sub> evolution. <i>Chemical Engineering Journal</i> , 2022, 431, 133281.	12.7	41
2	Robust Fe <sup>2+</sup> -doped nickel-iron layered double hydroxide electrode for electrocatalytic reduction of hexavalent chromium by pulsed potential method. <i>Journal of Materials Science and Technology</i> , 2022, 110, 73-83.	10.7	5
3	A 3D C@TiO <sub>2</sub> multishell nanoframe for simultaneous photothermal catalytic hydrogen generation and organic pollutant degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 535-546.	9.4	13
4	Effect of oxygen vacancies on the photocatalytic CO <sub>2</sub> reduction performance of Bi <sub>2</sub> WO <sub>6</sub> : DFT and experimental studies. <i>Applied Surface Science</i> , 2022, 579, 152135.	6.1	21
5	Three-dimensional porous Cu <sub>2</sub> O with dendrite for efficient photocatalytic reduction of CO <sub>2</sub> under visible light. <i>Applied Surface Science</i> , 2022, 581, 152343.	6.1	18
6	Theoretical insights into effective electron transfer and migration behavior for CO <sub>2</sub> reduction on the BiOBr(001) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2032-2039.	2.8	3
7	In-situ growth of MOF nanosheets with controllable thickness on copper foam for photoelectrocatalytic CO <sub>2</sub> reduction. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 14568-14580.	2.2	2
8	In-situ construction of photoanode with Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> heterojunction nanotube array to facilitate charge separation for efficient water splitting. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165787.	5.5	13
9	Construction of an amino-rich Ni/Ti bimetallic MOF composite with expanded light absorption and enhanced carrier separation for efficient photocatalytic H <sub>2</sub> evolution. <i>Materials Science in Semiconductor Processing</i> , 2022, 150, 106914.	4.0	9
10	Assisting Bi <sub>2</sub> MoO <sub>6</sub> microspheres with phenolic resin-based ACSs as attractive tailor-made supporter for highly-efficient photocatalytic CO <sub>2</sub> reduction. <i>Green Energy and Environment</i> , 2021, 6, 693-702.	8.7	38
11	Construction of CdSe polymorphic junctions with coherent interface for enhanced photoelectrocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119552.	20.2	69
12	Synthesis of disorder-ordered TaON homojunction for photocatalytic hydrogen generation under visible light. <i>Journal of Materials Science</i> , 2021, 56, 9791-9806.	3.7	14
13	Effect of oxygen vacancy concentration on the photocatalytic hydrogen evolution performance of anatase TiO <sub>2</sub> : DFT and experimental studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 13369-13381.	2.2	9
14	Self-Doping Surface Oxygen Vacancy-Induced Lattice Strains for Enhancing Visible Light-Driven Photocatalytic H <sub>2</sub> Evolution over Black TiO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18758-18771.	8.0	127
15	MIL-100 (Fe) with mix-valence coordinatively unsaturated metal site as Fenton-like catalyst for efficiently removing tetracycline hydrochloride: Boosting Fe(III)/Fe(II) cycle by photoreduction. <i>Separation and Purification Technology</i> , 2021, 262, 118334.	7.9	47
16	Black single-crystal TiO <sub>2</sub> nanosheet array films with oxygen vacancy on {001} facets for boosting photocatalytic CO <sub>2</sub> reduction. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159400.	5.5	42
17	Enhanced photoelectrocatalytic hydrogen production performance of porous MoS <sub>2</sub> /PPy/ZnO film under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35219-35229.	7.1	16
18	Construction of a ternary spatial junction in yolk-shell nanoreactor for efficient photo-thermal catalytic hydrogen generation. <i>Chemical Engineering Journal</i> , 2021, 423, 130188.	12.7	54

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19	In Situ Synthesis of Hydrangea Finch Coral-like Bi <sub>2</sub> SiO <sub>20</sub> Film with Highly Effective Photocatalytic CO <sub>2</sub> Reduction Performance. ACS Applied Energy Materials, 2021, 4, 15-19.	5.1	10
20	Oxygen vacancy self-doped black TiO <sub>2</sub> nanotube arrays by aluminothermic reduction for photocatalytic CO <sub>2</sub> reduction under visible light illumination. Journal of CO <sub>2</sub> Utilization, 2020, 35, 205-215.	6.8	116
21	Annealing temperature effect on 3D hierarchically porous NiO/Ni for removal of trace hexavalent chromium. Materials Chemistry and Physics, 2020, 240, 122140.	4.0	10
22	A C@TiO <sub>2</sub> yolk-shell heterostructure for synchronous photothermal photocatalytic degradation of organic pollutants. Journal of Materials Chemistry C, 2020, 8, 1025-1040.	5.5	71
23	Photoelectrocatalytic hydrogen production of heterogeneous photoelectrodes with different system configurations of CdSe nanoparticles, Au nanocrystals and TiO <sub>2</sub> nanotube arrays. International Journal of Hydrogen Energy, 2020, 45, 26688-26700.	7.1	14
24	Performance of photocatalytic cathodic protection of 20 steel by $\text{Fe}_2\text{O}_3/\text{TiO}_2$ system. Surface and Coatings Technology, 2020, 385, 125445.	4.8	14
25	High-performance ordered porous Polypyrrole/ZnO films with improved specific capacitance for supercapacitors. Materials Chemistry and Physics, 2020, 256, 123591.	4.0	26
26	{001}/{101} facets co-exposed TiO <sub>2</sub> microsheet arrays with Lanthanum doping for enhancing photocatalytic CO <sub>2</sub> reduction. Journal of Materials Science: Materials in Electronics, 2020, 31, 19464-19474.	2.2	4
27	3D hierarchically porous NiO/NF electrode for the removal of chromium(VI) from wastewater by electrocoagulation. Chemical Engineering Journal, 2020, 402, 126151.	12.7	46
28	The surface wettability of TiO <sub>2</sub> nanotube arrays: which is more important morphology or chemical composition?. Journal of Porous Materials, 2019, 26, 91-98.	2.6	2
29	A novel synthesis method for Ag/g-C <sub>3</sub> N <sub>4</sub> nanocomposite and mechanism of enhanced visible-light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2019, 30, 15636-15645.	2.2	16
30	Influence of annealing temperature on microstructure and photoelectric properties of ternary CdSe@CdS@TiO <sub>2</sub> core-shell heterojunctions. Journal of Solid State Electrochemistry, 2019, 23, 2085-2096.	2.5	4
31	A gas bubble exfoliation method to prepare g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced photocatalytic activities. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 372, 147-155.	3.9	21
32	The dual effects of RGO films in TiO <sub>2</sub> /CdSe heterojunction: Enhancing photocatalytic activity and improving photocorrosion resistance. Applied Surface Science, 2019, 481, 1515-1523.	6.1	34
33	Electrodeposition of Cu <sub>2</sub> O nanocrystalline on TiO <sub>2</sub> nanosheet arrays by chronopotentiometry for improvement of photoelectrochemical properties. Ceramics International, 2018, 44, 11039-11047.	4.8	13
34	Facile and time-saving synthesis of octahedral Cu <sub>2</sub> O crystals by an ethanol-assisted solution method at low temperatures. CrystEngComm, 2017, 19, 1258-1264.	2.6	5
35	The influence of Au nuclei layer on formation and photoelectrochemical properties of Cu <sub>2</sub> O thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 8579-8587.	2.2	1
36	The Oxygen Reduction Reaction Rate of Metallic Nanoparticles during Catalyzed Oxidation. Scientific Reports, 2017, 7, 7017.	3.3	7

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37	The influence of DMSO on the formation and photoelectrochemical properties of CdS thin films by electrodeposition method. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 19-26.	2.5	1
38	Enhancing efficiency of CdS/TiO <sub>2</sub> nanorod arrays solar cell through improving the hydrophilicity of TiO <sub>2</sub> nanorod surface. <i>Solar Energy Materials and Solar Cells</i> , 2015, 136, 206-212.	6.2	23
39	Effects of annealing temperature on the properties of copper films prepared by magnetron sputtering. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 92-96.	1.0	14
40	Electrochemical preparation and photoelectric properties of Cu <sub>2</sub> O-loaded TiO <sub>2</sub> nanotube arrays. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 23-28.	1.0	6
41	Investigation on the influence of pH on structure and photoelectrochemical properties of CdSe electrolytically deposited into TiO <sub>2</sub> nanotube arrays. <i>Journal of Alloys and Compounds</i> , 2014, 607, 163-168.	5.5	20
42	The study on properties of CdS photocatalyst with different ratios of zinc-blende and wurtzite structure. <i>RSC Advances</i> , 2013, 3, 20930.	3.6	27
43	Preparation and formation mechanism of smooth and uniform Cu <sub>2</sub> O thin films by electrodeposition method. <i>Surface and Coatings Technology</i> , 2013, 216, 166-171.	4.8	33
44	Photosensitization of TiO <sub>2</sub> nanotube arrays with CdSe nanoparticles and their photoelectrochemical performance under visible light. <i>Electrochimica Acta</i> , 2013, 97, 10-16.	5.2	34
45	Shape-controlled synthesis of three-dimensional branched CdS nanostructure arrays: structural characteristics and formation mechanism. <i>CrystEngComm</i> , 2013, 15, 1007-1014.	2.6	15
46	Controlled synthesis of coaxial core-shell TiO <sub>2</sub> /Cu <sub>2</sub> O heterostructures by electrochemical method and their photoelectrochemical properties. <i>Materials Letters</i> , 2013, 92, 239-242.	2.6	13
47	Crystallization behavior and formation mechanism of dendrite Cu <sub>2</sub> O crystals. <i>CrystEngComm</i> , 2012, 14, 8017.	2.6	24
48	Effect of ECAP on the microstructure and mechanical properties of a high-Mg <sub>2</sub> Si content Al-Mg-Si alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 395-398.	1.0	2
49	Preparation and enhanced daylight-induced photo-catalytic activity of transparent C-Doped TiO <sub>2</sub> thin films. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 738-742.	1.0	11
50	Microstructure and mechanical properties of ultrafine grained Mg <sub>15</sub> Al alloy processed by equal-channel angular pressing. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 238-242.	1.0	5
51	Electronic band structures of TiO <sub>2</sub> with heavy nitrogen doping. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 799-803.	1.0	3