

Shaodong Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87

papers

2,611

citations

30

h-index

48

g-index

90

ext. papers

3,177

ext. citations

5.7

avg, IF

5.72

L-index

#	Paper	IF	Citations
87	In-situ construction of direct Z-scheme sea-urchin-like ZnS/SnO ₂ heterojunctions for boosted photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 9201-9208	6.7	1
86	One-pot construction of unprecedented direct Z-scheme ZnS/GaOOH heterojunction for photodegradation of antibiotics. <i>Applied Surface Science</i> , 2021 , 576, 151742	6.7	1
85	First-principles Study of Crystal Structure Prediction, Electronic, Thermodynamic and Mechanical Properties of Al-Li Binary System. <i>Materials Today Communications</i> , 2021 , 102920	2.5	0
84	One-pot construction of Ta-doped BiOCl/Bi heterostructures toward simultaneously promoting visible light harvesting and charge separation for highly enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2021 , 543, 148798	6.7	16
83	Facile construction of nickel-doped hierarchical BiOCl architectures for enhanced visible-light-driven photocatalytic activities. <i>Materials Research Bulletin</i> , 2021 , 138, 111208	5.1	11
82	Three-in-one to enhance visible-light driven photocatalytic activity of BiOCl: Synergistic effect of mesocrystalline stacking superstructure, porous nanosheet and oxygen vacancy. <i>Journal of Materiomics</i> , 2021 , 7, 328-338	6.7	6
81	Spatial charge separation and high-index facet dependence in polyhedral Cu ₂ O type-II surface heterojunctions for photocatalytic activity enhancement. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2603-2610	6.8	2
80	Surface engraving engineering of polyhedral photocatalysts. <i>Catalysis Science and Technology</i> , 2021 , 11, 6001-6017	5.5	1
79	Preparation of nanoporous Cu/Cu ₂ O composites by anodic oxidation and their electrocatalytic performance towards methanol oxidation. <i>Materials Today Communications</i> , 2021 , 26, 101992	2.5	1
78	Constructing the Z-scheme TiO ₂ /Au/BiOI nanocomposite for enhanced photocatalytic nitrogen fixation. <i>Applied Surface Science</i> , 2021 , 556, 149785	6.7	16
77	Organic dye-reformed construction of porous-defect g-C ₃ N ₄ nanosheet for improved visible-light-driven photocatalytic activity. <i>Applied Surface Science</i> , 2021 , 568, 150986	6.7	4
76	One-pot construction of robust BiOCl/ZnO p-n heterojunctions with semi-coherent interfaces toward improving charge separation for photodegradation enhancement. <i>Nanoscale Advances</i> , 2021 , 3, 4851-4857	5.1	3
75	Unprecedented Ag-CuO composited mesocrystals with efficient charge separation and transfer as well as visible light harvesting for enhanced photocatalytic activity. <i>Nanoscale</i> , 2021 , 13, 11867-11877	7.7	3
74	A ternary photocatalyst of all-solid-state Z-scheme TiO ₂ /Au/BiOBr for efficiently degrading various dyes. <i>Journal of Alloys and Compounds</i> , 2020 , 839, 155597	5.7	22
73	An Mn ²⁺ -mediated construction of rhombicuboctahedral Cu ₂ O nanocrystals enclosed by jagged surfaces for enhanced enzyme-free glucose sensing. <i>CrystEngComm</i> , 2020 , 22, 2042-2048	3.3	11
72	Monolithic Micro/Nanoporous Copper: Preparation, Mechanical and Electrocatalytic Properties. <i>Materials Transactions</i> , 2020 , 61, 1045-1048	1.3	1
71	Twin engineering of photocatalysts: a minireview. <i>Catalysis Science and Technology</i> , 2020 , 10, 4164-4178	5.5	8

70	An LSPR-based "push-pull" synergetic effect for the enhanced photocatalytic performance of a gold nanorod@cuprous oxide-gold nanoparticle ternary composite. <i>Nanoscale</i> , 2020 , 12, 1912-1920	7.7	8
69	Identification of the Miller indices of a crystallographic plane: a tutorial and a comprehensive review on fundamental theory, universal methods based on different case studies and matters needing attention. <i>Nanoscale</i> , 2020 , 12, 16657-16677	7.7	10
68	Facile constructing of isotype g-C ₃ N ₄ (bulk)/g-C ₃ N ₄ (nanosheet) heterojunctions through thermal polymerization of single-source glucose-modified melamine: An efficient charge separation system for photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2020 , 500, 143985	6.7	30
67	Purposefully designing novel hydroxylated and carbonylated melamine towards the synthesis of targeted porous oxygen-doped g-C ₃ N ₄ nanosheets for highly enhanced photocatalytic hydrogen production. <i>Catalysis Science and Technology</i> , 2019 , 9, 5150-5159	5.5	13
66	Mesoporous graphitic carbon nitride (g-C ₃ N ₄) nanosheets synthesized from carbonated beverage-reformed commercial melamine for enhanced photocatalytic hydrogen evolution. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 597-605	7.8	26
65	High-index faceted metal oxide micro-/nanostructures: a review on their characterization, synthesis and applications. <i>Nanoscale</i> , 2019 , 11, 15739-15762	7.7	43
64	Tuning Interfacial Cu-O Atomic Structures for Enhanced Catalytic Applications. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2912-2924	4.5	7
63	Water-guided synthesis of well-defined inorganic micro-/nanostructures. <i>Chemical Communications</i> , 2019 , 55, 9418-9431	5.8	1
62	Amorphous TiO ₂ nanostructures: synthesis, fundamental properties and photocatalytic applications. <i>Catalysis Science and Technology</i> , 2019 , 9, 4198-4215	5.5	54
61	Mesocrystals for photocatalysis: a comprehensive review on synthesis engineering and functional modifications. <i>Nanoscale Advances</i> , 2019 , 1, 34-63	5.1	49
60	Simultaneously engineering K-doping and exfoliation into graphitic carbon nitride (g-C ₃ N ₄) for enhanced photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 778-787	6.7	33
59	Enhanced photocatalytic property of hybrid graphitic CN and graphitic ZnO nanocomposite: the effects of interface and doping. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 175001	1.8	12
58	Porous/dense ZnO bilayer films grown by thermal oxidation of ZnS film with gallium. <i>Vacuum</i> , 2018 , 153, 96-100	3.7	1
57	Cuprous oxide (Cu ₂ O) crystals with tailored architectures: A comprehensive review on synthesis, fundamental properties, functional modifications and applications. <i>Progress in Materials Science</i> , 2018 , 96, 111-173	42.2	101
56	A very facile strategy for the synthesis of ultrathin CuO nanorods towards non-enzymatic glucose sensing. <i>New Journal of Chemistry</i> , 2018 , 42, 6364-6369	3.6	14
55	Novel cone-like ZnO mesocrystals with co-exposed (101) and (000) facets and enhanced photocatalytic activity. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2257-2267	6.8	18
54	Effect of thermal oxidation on microstructures and mechanical properties of nanoporous coppers. <i>Science China Technological Sciences</i> , 2018 , 61, 1839-1844	3.5	3
53	Synthesis, Functional Modifications, and Diversified Applications of Molybdenum Oxides Micro-/Nanocrystals: A Review. <i>Crystal Growth and Design</i> , 2018 , 18, 6326-6369	3.5	43

52	Constructing oxygen-doped g-C ₃ N ₄ nanosheets with an enlarged conductive band edge for enhanced visible-light-driven hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1721-1727	6.8	28
51	Hollow Cu _x O (x = 2, 1) micro/nanostructures: synthesis, fundamental properties and applications. <i>CrystEngComm</i> , 2017 , 19, 6225-6251	3.3	15
50	Diversified copper sulfide (CuS) micro-/nanostructures: a comprehensive review on synthesis, modifications and applications. <i>Nanoscale</i> , 2017 , 9, 11357-11404	7.7	111
49	Morphological zinc stannate: synthesis, fundamental properties and applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20534-20560	13	53
48	Recent advances in functional mesoporous graphitic carbon nitride (mpg-CN) polymers. <i>Nanoscale</i> , 2017 , 9, 10544-10578	7.7	136
47	Fe ₃ O ₄ Anisotropic Nanostructures in Hydrogels: Efficient Catalysts for the Rapid Removal of Organic Dyes from Wastewater. <i>ChemPhysChem</i> , 2016 , 17, 1999-2007	3.2	15
46	Recent advances in hybrid Cu ₂ O-based heterogeneous nanostructures. <i>Nanoscale</i> , 2015 , 7, 10850-82	7.7	129
45	One-pot synthesis of etched Cu ₂ O cubes with exposed {110} facets with enhanced visible-light-driven photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29479-82	3.6	15
44	Nanoporous copper oxide ribbon assembly of free-standing nanoneedles as biosensors for glucose. <i>Analyst</i> , 2015 , 140, 5205-15	5	41
43	Magnetic field controlled particle-mediated growth inducing icker-like silver architectures. <i>Chemical Engineering Journal</i> , 2014 , 240, 494-502	14.7	12
42	One-pot fabrication of novel cuboctahedral Cu ₂ O crystals enclosed by anisotropic surfaces with enhancing catalytic performance. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20424-8	3.6	12
41	Facile hydroxyl-assisted synthesis of morphological Cu ₂ O architectures and their shape-dependent photocatalytic performances. <i>New Journal of Chemistry</i> , 2014 , 38, 4656-4660	3.6	23
40	Recent advances in tuning crystal facets of polyhedral cuprous oxide architectures. <i>RSC Advances</i> , 2014 , 4, 3804-3822	3.7	78
39	Copper-templated synthesis of gold microcages for sensitive surface-enhanced Raman scattering activity. <i>RSC Advances</i> , 2014 , 4, 27074-27077	3.7	7
38	Nanoparticle-aggregated CuO nanoellipsoids for high-performance non-enzymatic glucose detection. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10073	13	67
37	Sulfate-ion-assisted galvanic replacement tuning of silver dendrites to highly branched chains for effective SERS. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18918-25	3.6	18
36	Cu ₂ O-templated strategy for synthesis of definable hollow architectures. <i>Chemical Communications</i> , 2014 , 50, 7403-15	5.8	64
35	Templating synthesis of hollow CuO polyhedron and its application for nonenzymatic glucose detection. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7306-7312	13	78

34	Nanoparticle-aggregated hollow copper microcages and their surface-enhanced Raman scattering activity. <i>CrystEngComm</i> , 2013 , 15, 6136	3.3	21
33	A surfactant-free strategy for controllable growth of hierarchical copper oxide nanostructures. <i>CrystEngComm</i> , 2013 , 15, 5275	3.3	25
32	Hierarchical CuO nanoflowers: water-required synthesis and their application in a nonenzymatic glucose biosensor. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10904-13	3.6	115
31	Surfactant-free CuO mesocrystals with controllable dimensions: green ordered-aggregation-driven synthesis, formation mechanism and their photochemical performances. <i>CrystEngComm</i> , 2013 , 15, 867-877	3.3	63
30	A facile strategy for the synthesis of hierarchical CuO nanourchins and their application as non-enzymatic glucose sensors. <i>RSC Advances</i> , 2013 , 3, 13712	3.7	33
29	Elucidating a twin-dependent chemical activity of hierarchical copper sulfide nanocages. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15964-70	3.6	19
28	Formation of hierarchically polyhedral Cu ₇ S ₄ cages from Cu ₂ O templates and their structure-dependent photocatalytic performances. <i>New Journal of Chemistry</i> , 2013 , 37, 3679	3.6	18
27	Facile water-assisted synthesis of cupric oxide nanourchins and their application as nonenzymatic glucose biosensor. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4429-37	9.5	99
26	Pyridine-containing block copolymer/silica core-shell nanoparticles for one-step preparation of superhydrophobic surfaces. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10921-9	3.6	13
25	Electrochemical deposition mediated growth of hierarchical Au architectures and the applications for SERS. <i>CrystEngComm</i> , 2012 , 14, 656-662	3.3	8
24	Twins in polyhedral 26-facet Cu ₇ S ₄ cages: synthesis, characterization and their enhancing photochemical activities. <i>Dalton Transactions</i> , 2012 , 41, 3214-22	4.3	30
23	Nanotwins in polycrystalline Cu ₇ S ₄ cages: highly active architectures for enhancing photocatalytic activities. <i>Catalysis Science and Technology</i> , 2012 , 2, 1309	5.5	20
22	The crystal-facet-dependent effect of polyhedral Cu ₂ O microcrystals on photocatalytic activity. <i>Catalysis Science and Technology</i> , 2012 , 2, 925	5.5	91
21	Bottom-up assembly of hierarchical Cu ₂ O nanospheres: controllable synthesis, formation mechanism and enhanced photochemical activities. <i>CrystEngComm</i> , 2012 , 14, 3545	3.3	47
20	Unusual Designated-Tailoring on Zone-Axis Preferential Growth of Surfactant-Free ZnO Mesocrystals. <i>Crystal Growth and Design</i> , 2012 , 12, 2411-2418	3.5	21
19	Copper sulfide cages wholly exposed with nanotwinned building blocks. <i>CrystEngComm</i> , 2012 , 14, 67-70	3.3	31
18	Facet-selective growth of Cu ₂ O heterogeneous architectures. <i>CrystEngComm</i> , 2012 , 14, 40-43	3.3	46
17	Nanocube-aggregated cauliflower-like copper hierarchical architectures: synthesis, growth mechanism and electrocatalytic activity. <i>CrystEngComm</i> , 2012 , 14, 5737	3.3	15

16	The electrochemical properties of AlSiNi alloys composed of nanocrystal and metallic glass for lithium-ion battery anodes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2159-2167	2.6	12
15	Selective-etching growth of urchin-like Cu ₂ O architectures. <i>CrystEngComm</i> , 2011 , 13, 6616	3.3	27
14	Etching-limited branching growth of cuprous oxide during ethanol-assisted solution synthesis. <i>CrystEngComm</i> , 2011 , 13, 2837	3.3	36
13	Seed-mediated synthesis of polyhedral 50-facet Cu ₂ O architectures. <i>CrystEngComm</i> , 2011 , 13, 5993	3.3	26
12	Highly symmetric polyhedral Cu ₂ O crystals with controllable-index planes. <i>CrystEngComm</i> , 2011 , 13, 2217	3.3	67
11	Magnetic field driven assembly of 1D-aligned silver superstructures. <i>CrystEngComm</i> , 2011 , 13, 4827	3.3	6
10	Nanoparticle-aggregated octahedral copper hierarchical nanostructures. <i>CrystEngComm</i> , 2011 , 13, 63-66	3.3	16
9	Polyhedron-aggregated multi-facet Cu ₂ O homogeneous structures. <i>CrystEngComm</i> , 2011 , 13, 6040	3.3	22
8	Unique polyhedral 26-facet CuS hollow architectures decorated with nanotwinned, mesostructural and single crystalline shells. <i>CrystEngComm</i> , 2011 , 13, 6200	3.3	37
7	Nanoparticle-aggregated paddy-like copper dendritic nanostructures. <i>CrystEngComm</i> , 2011 , 13, 1916-1923	3.3	19
6	Cu ₂ O Template Strategy for the Synthesis of Structure-Definable Noble Metal Alloy Mesocages. <i>Crystal Growth and Design</i> , 2011 , 11, 3694-3697	3.5	54
5	Designated-Tailoring on {100} Facets of Cu ₂ O Nanostructures: From Octahedral to Its Different Truncated Forms. <i>Journal of Nanomaterials</i> , 2010 , 2010, 1-11	3.2	3
4	Template-Free Synthesis of Well-Defined Truncated Edge Polyhedral Cu ₂ O Architectures. <i>Crystal Growth and Design</i> , 2010 , 10, 541-547	3.5	72
3	Synthesis, Functional Modifications, and Diversified Applications of Hybrid BiOCl-Based Heterogeneous Photocatalysts: A Review. <i>Crystal Growth and Design</i> ,	3.5	9
2	Facet Junction Engineering for Photocatalysis: A Comprehensive Review on Elementary Knowledge, Facet-Synergistic Mechanisms, Functional Modifications, and Future Perspectives. <i>Advanced Functional Materials</i> , 2106982	15.6	11
1	Mechanism Insight into an Unprecedented Dual Series-Parallel Photocharge Separation in Quaternary Cu ₂ O Facet Junctions. <i>Advanced Functional Materials</i> , 2111528	15.6	3