

# Shaodong Sun

## List of Publications by Year in descending order

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88  
papers

3,756  
citations

117571

34  
h-index

138417

58  
g-index

90  
all docs

90  
docs citations

90  
times ranked

4679  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in functional mesoporous graphitic carbon nitride (mpg-C <sub>3</sub> N <sub>4</sub> ) polymers. <i>Nanoscale</i> , 2017, 9, 10544-10578.	2.8	189
2	Cuprous oxide (Cu <sub>2</sub> 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.	16.0	183
3	Recent advances in hybrid Cu <sub>2</sub> O-based heterogeneous nanostructures. <i>Nanoscale</i> , 2015, 7, 10850-10882.	2.8	157
4	Diversified copper sulfide (Cu <sub>2</sub> S) micro-/nanostructures: a comprehensive review on synthesis, modifications and applications. <i>Nanoscale</i> , 2017, 9, 11357-11404.	2.8	154
5	Hierarchical CuO nanoflowers: water-required synthesis and their application in a nonenzymatic glucose biosensor. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10904.	1.3	125
6	Facile Water-Assisted Synthesis of Cupric Oxide Nanourchins and Their Application as Nonenzymatic Glucose Biosensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4429-4437.	4.0	117
7	Amorphous TiO <sub>2</sub> nanostructures: synthesis, fundamental properties and photocatalytic applications. <i>Catalysis Science and Technology</i> , 2019, 9, 4198-4215.	2.1	105
8	The crystal-facet-dependent effect of polyhedral Cu <sub>2</sub> O microcrystals on photocatalytic activity. <i>Catalysis Science and Technology</i> , 2012, 2, 925.	2.1	99
9	Recent advances in tuning crystal facets of polyhedral cuprous oxide architectures. <i>RSC Advances</i> , 2014, 4, 3804-3822.	1.7	89
10	Templating synthesis of hollow CuO polyhedron and its application for nonenzymatic glucose detection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7306-7312.	5.2	87
11	Morphological zinc stannate: synthesis, fundamental properties and applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20534-20560.	5.2	85
12	Nanoparticle-aggregated CuO nanoellipsoids for high-performance non-enzymatic glucose detection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10073.	5.2	80
13	Cu <sub>2</sub> O-templated strategy for synthesis of definable hollow architectures. <i>Chemical Communications</i> , 2014, 50, 7403.	2.2	80
14	Template-Free Synthesis of Well-Defined Truncated Edge Polyhedral Cu <sub>2</sub> O Architectures. <i>Crystal Growth and Design</i> , 2010, 10, 541-547.	1.4	75
15	Highly symmetric polyhedral Cu <sub>2</sub> O crystals with controllable-index planes. <i>CrystEngComm</i> , 2011, 13, 2217.	1.3	75
16	Mesocrystals for photocatalysis: a comprehensive review on synthesis engineering and functional modifications. <i>Nanoscale Advances</i> , 2019, 1, 34-63.	2.2	75
17	High-index faceted metal oxide micro-/nanostructures: a review on their characterization, synthesis and applications. <i>Nanoscale</i> , 2019, 11, 15739-15762.	2.8	74
18	Simultaneously engineering K-doping and exfoliation into graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) for enhanced photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 778-787.	3.8	71

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19	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.	1.3	67
20	Cu <sub>2</sub> O Template Strategy for the Synthesis of Structure-Definable Noble Metal Alloy Mesocages. <i>Crystal Growth and Design</i> , 2011, 11, 3694-3697.	1.4	61
21	Synthesis, Functional Modifications, and Diversified Applications of Hybrid BiOCl-Based Heterogeneous Photocatalysts: A Review. <i>Crystal Growth and Design</i> , 2021, 21, 6576-6618.	1.4	61
22	Synthesis, Functional Modifications, and Diversified Applications of Molybdenum Oxides Micro-/Nanocrystals: A Review. <i>Crystal Growth and Design</i> , 2018, 18, 6326-6369.	1.4	60
23	Facile constructing of isotype g-C <sub>3</sub> N <sub>4</sub> (bulk)/g-C <sub>3</sub> N <sub>4</sub> (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.	3.1	58
24	Bottom-up assembly of hierarchical Cu <sub>2</sub> O nanospheres: controllable synthesis, formation mechanism and enhanced photochemical activities. <i>CrystEngComm</i> , 2012, 14, 3545.	1.3	54
25	Facet-selective growth of Cu <sup>2+</sup> /Cu <sub>2</sub> O heterogeneous architectures. <i>CrystEngComm</i> , 2012, 14, 40-43.	1.3	54
26	Constructing oxygen-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets with an enlarged conductive band edge for enhanced visible-light-driven hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1721-1727.	3.0	54
27	Constructing the Z-scheme TiO <sub>2</sub> /Au/BiOI nanocomposite for enhanced photocatalytic nitrogen fixation. <i>Applied Surface Science</i> , 2021, 556, 149785.	3.1	54
28	Facet Junction Engineering for Photocatalysis: A Comprehensive Review on Elementary Knowledge, Facet-Synergistic Mechanisms, Functional Modifications, and Future Perspectives. <i>Advanced Functional Materials</i> , 2022, 32, 2106982.	7.8	51
29	Nanoporous copper oxide ribbon assembly of free-standing nanoneedles as biosensors for glucose. <i>Analyst</i> , 2015, 140, 5205-5215.	1.7	49
30	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.	3.1	49
31	Mesoporous graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) nanosheets synthesized from carbonated beverage-reformed commercial melamine for enhanced photocatalytic hydrogen evolution. <i>Materials Chemistry Frontiers</i> , 2019, 3, 597-605.	3.2	44
32	Unique polyhedral 26-facet CuS hollow architectures decorated with nanotwinned, mesostructural and single crystalline shells. <i>CrystEngComm</i> , 2011, 13, 6200.	1.3	39
33	Etching-limited branching growth of cuprous oxide during ethanol-assisted solution synthesis. <i>CrystEngComm</i> , 2011, 13, 2837.	1.3	39
34	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.	1.7	39
35	Twins in polyhedral 26-facet Cu <sub>7</sub> S <sub>4</sub> cages: Synthesis, characterization and their enhancing photochemical activities. <i>Dalton Transactions</i> , 2012, 41, 3214.	1.6	35
36	Copper sulfide cages wholly exposed with nanotwinned building blocks. <i>CrystEngComm</i> , 2012, 14, 67-70.	1.3	34

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37	Facile construction of nickel-doped hierarchical BiOCl architectures for enhanced visible-light-driven photocatalytic activities. <i>Materials Research Bulletin</i> , 2021, 138, 111208.	2.7	34
38	Organic dye-reformed construction of porous-defect g-C <sub>3</sub> N <sub>4</sub> nanosheet for improved visible-light-driven photocatalytic activity. <i>Applied Surface Science</i> , 2021, 568, 150986.	3.1	33
39	Selective-etching growth of urchin-like Cu <sub>2</sub> O architectures. <i>CrystEngComm</i> , 2011, 13, 6616.	1.3	31
40	A ternary photocatalyst of all-solid-state Z-scheme TiO <sub>2</sub> @Au@BiOBr for efficiently degrading various dyes. <i>Journal of Alloys and Compounds</i> , 2020, 839, 155597.	2.8	31
41	Facile hydroxyl-assisted synthesis of morphological Cu <sub>2</sub> O architectures and their shape-dependent photocatalytic performances. <i>New Journal of Chemistry</i> , 2014, 38, 4656-4660.	1.4	30
42	Novel cone-like ZnO mesocrystals with co-exposed (101̄,1) and (0001̄,1) facets and enhanced photocatalytic activity. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2257-2267.	3.0	30
43	In-situ construction of direct Z-scheme sea-urchin-like ZnS/SnO <sub>2</sub> heterojunctions for boosted photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9201-9208.	3.8	30
44	Seed-mediated synthesis of polyhedral 50-facet Cu <sub>2</sub> O architectures. <i>CrystEngComm</i> , 2011, 13, 5993.	1.3	29
45	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.	2.8	29
46	A surfactant-free strategy for controllable growth of hierarchical copper oxide nanostructures. <i>CrystEngComm</i> , 2013, 15, 5275.	1.3	27
47	Unusual Designated-Tailoring on Zone-Axis Preferential Growth of Surfactant-Free ZnO Mesocrystals. <i>Crystal Growth and Design</i> , 2012, 12, 2411-2418.	1.4	26
48	Nanotwins in polycrystalline Cu <sub>7</sub> S <sub>4</sub> cages: highly active architectures for enhancing photocatalytic activities. <i>Catalysis Science and Technology</i> , 2012, 2, 1309.	2.1	25
49	Elucidating a twin-dependent chemical activity of hierarchical copper sulfide nanocages. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15964.	1.3	25
50	Purposefully designing novel hydroxylated and carbonylated melamine towards the synthesis of targeted porous oxygen-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets for highly enhanced photocatalytic hydrogen production. <i>Catalysis Science and Technology</i> , 2019, 9, 5150-5159.	2.1	25
51	Mechanism Insight into an Unprecedented Dual Series-Parallel Photocharge Separation in Quaternary Cu <sub>2</sub> O Facet Junctions. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	24
52	One-pot integration of S-doped BiOCl and ZnO into type-II photocatalysts: Simultaneously boosting bulk and surface charge separation for enhanced antibiotic removal. <i>Separation and Purification Technology</i> , 2022, 299, 121725.	3.9	24
53	Nanoparticle-aggregated paddy-like copper dendritic nanostructures. <i>CrystEngComm</i> , 2011, 13, 1916-1921.	1.3	23
54	Nanoparticle-aggregated hollow copper microcages and their surface-enhanced Raman scattering activity. <i>CrystEngComm</i> , 2013, 15, 6136.	1.3	23

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55	Polyhedron-aggregated multi-facet Cu <sub>2</sub> O homogeneous structures. <i>CrystEngComm</i> , 2011, 13, 6040.	1.3	22
56	Unprecedented Ag@Cu <sub>2</sub> O 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.	2.8	22
57	Hollow Cu <sub>x</sub> O (x = 2, 1) micro/nanostructures: synthesis, fundamental properties and applications. <i>CrystEngComm</i> , 2017, 19, 6225-6251.	1.3	21
58	Formation of hierarchically polyhedral Cu <sub>7</sub> S <sub>4</sub> cages from Cu <sub>2</sub> O templates and their structure-dependent photocatalytic performances. <i>New Journal of Chemistry</i> , 2013, 37, 3679.	1.4	20
59	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.	1.4	20
60	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.	2.8	20
61	Sulfate-ion-assisted galvanic replacement tuning of silver dendrites to highly branched chains for effective SERS. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18918-18925.	1.3	19
62	Fe <sub>3</sub> O <sub>4</sub> Anisotropic Nanostructures in Hydrogels: Efficient Catalysts for the Rapid Removal of Organic Dyes from Wastewater. <i>ChemPhysChem</i> , 2016, 17, 1999-2007.	1.0	19
63	Twin engineering of photocatalysts: a minireview. <i>Catalysis Science and Technology</i> , 2020, 10, 4164-4178.	2.1	19
64	One-pot synthesis of etched Cu <sub>2</sub> O cubes with exposed {110} facets with enhanced visible-light-driven photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29479-29482.	1.3	18
65	One-pot construction of robust BiOCl/ZnO "n heterojunctions with semi-coherent interfaces toward improving charge separation for photodegradation enhancement. <i>Nanoscale Advances</i> , 2021, 3, 4851-4857.	2.2	18
66	Enhanced photocatalytic property of hybrid graphitic C <sub>3</sub> N <sub>4</sub> and graphitic ZnO nanocomposite: the effects of interface and doping. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 175001.	0.7	17
67	Nanoparticle-aggregated octahedral copper hierarchical nanostructures. <i>CrystEngComm</i> , 2011, 13, 63-66.	1.3	16
68	Nanocube-aggregated cauliflower-like copper hierarchical architectures: synthesis, growth mechanism and electrocatalytic activity. <i>CrystEngComm</i> , 2012, 14, 5737.	1.3	16
69	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.	2.8	16
70	Pyridine-containing block copolymer/silica core-shell nanoparticles for one-step preparation of superhydrophobic surfaces. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10921.	1.3	15
71	Tuning Interfacial Cu <sub>2</sub> O Atomic Structures for Enhanced Catalytic Applications. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2912-2924.	1.7	14
72	One-pot fabrication of novel cuboctahedral Cu <sub>2</sub> O crystals enclosed by anisotropic surfaces with enhancing catalytic performance. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20424-20428.	1.3	13

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73	One-pot construction of unprecedented direct Z-scheme ZnS/GaOOH heterojunction for photodegradation of antibiotics. <i>Applied Surface Science</i> , 2022, 576, 151742.	3.1	13
74	The electrochemical properties of Al–Si–Ni alloys composed of nanocrystal and metallic glass for lithium-ion battery anodes. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2159-2167.	1.2	12
75	Magnetic field controlled particle-mediated growth inducing icker-like silver architectures. <i>Chemical Engineering Journal</i> , 2014, 240, 494-502.	6.6	12
76	Spatial charge separation and high-index facet dependence in polyhedral Cu <sub>2</sub> O type-II surface heterojunctions for photocatalytic activity enhancement. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2603-2610.	3.0	12
77	An Mn <sup>2+</sup> -mediated construction of rhombicuboctahedral Cu <sub>2</sub> O nanocrystals enclosed by jagged surfaces for enhanced enzyme-free glucose sensing. <i>CrystEngComm</i> , 2020, 22, 2042-2048.	1.3	11
78	Designated-Tailoring on {100} Facets of Cu <sub>2</sub> O Nanostructures: From Octahedral to Its Different Truncated Forms. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-11.	1.5	8
79	Magnetic field driven assembly of 1D-aligned silver superstructures. <i>CrystEngComm</i> , 2011, 13, 4827.	1.3	8
80	Electrochemical deposition mediated growth of hierarchical Au architectures and the applications for SERS. <i>CrystEngComm</i> , 2012, 14, 656-662.	1.3	8
81	Copper-templated synthesis of gold microcages for sensitive surface-enhanced Raman scattering activity. <i>RSC Advances</i> , 2014, 4, 27074-27077.	1.7	7
82	Preparation of nanoporous Cu/Cu <sub>2</sub> O composites by anodic oxidation and their electrocatalytic performance towards methanol oxidation. <i>Materials Today Communications</i> , 2021, 26, 101992.	0.9	5
83	Water-guided synthesis of well-defined inorganic micro-/nanostructures. <i>Chemical Communications</i> , 2019, 55, 9418-9431.	2.2	4
84	Effect of thermal oxidation on microstructures and mechanical properties of nanoporous coppers. <i>Science China Technological Sciences</i> , 2018, 61, 1839-1844.	2.0	3
85	Monolithic Micro/Nanoporous Copper: Preparation, Mechanical and Electrocatalytic Properties. <i>Materials Transactions</i> , 2020, 61, 1045-1048.	0.4	3
86	Surface engraving engineering of polyhedral photocatalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 6001-6017.	2.1	2
87	Porous/dense ZnO bilayer films grown by thermal oxidation of ZnS film with gallium. <i>Vacuum</i> , 2018, 153, 96-100.	1.6	1
88	First-principles Study of Crystal Structure Prediction, Electronic, Thermodynamic and Mechanical Properties of Al-Li Binary System. <i>Materials Today Communications</i> , 2021, , 102920.	0.9	1