Shan Zhou

List of Publications by Year
in descending order

32 papers	1,599 citations	361413 20 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	2423 citing authors

#	Article	IF	Citations
1	Oxidative etching for controlled synthesis of metal nanocrystals: atomic addition and subtraction. Chemical Society Reviews, 2014, 43, 6288.	38.1	229
2	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. ACS Nano, 2016, 10, 9861-9870.	14.6	149
3	Tunable Oxygen Activation for Catalytic Organic Oxidation: Schottky Junction versus Plasmonic Effects. Angewandte Chemie - International Edition, 2014, 53, 3205-3209.	13.8	136
4	Decahedral nanocrystals of noble metals: Synthesis, characterization, and applications. Materials Today, 2019, 22, 108-131.	14.2	92
5	Toward a Quantitative Understanding of the Reduction Pathways of a Salt Precursor in the Synthesis of Metal Nanocrystals. Nano Letters, 2017, 17, 334-340.	9.1	87
6	Icosahedral nanocrystals of noble metals: Synthesis and applications. Nano Today, 2017, 15, 121-144.	11.9	83
7	Liquid harvesting and transport on multiscaled curvatures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23436-23442.	7.1	78
8	Kinetically Controlled Synthesis of Pdâ€“Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO₂ Reduction. Journal of the American Chemical Society, 2021, 143, 149-162.	13.7	77
9	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. ACS Catalysis, 2018, 8, 6948-6960.	11.2	66
10	Autocatalytic surface reduction and its role in controlling seed-mediated growth of colloidal metal nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13619-13624.	7.1	64
11	Synthesis of Pt nanocrystals with different shapes using the same protocol to optimize their catalytic activity toward oxygen reduction. Materials Today, 2018, 21, 834-844.	14.2	58
12	Tip-Patched Nanoprisms from Formation of Ligand Islands. Journal of the American Chemical Society, 2019, 141, 11796-11800.	13.7	54
13	Enabling Complete Ligand Exchange on the Surface of Gold Nanocrystals through the Deposition and Then Etching of Silver. Journal of the American Chemical Society, 2018, 140, 11898-11901.	13.7	53
14	Three-Dimensional Molecular Mapping of Ionic Liquids at Electrified Interfaces. ACS Nano, 2020, 14, 17515-17523.	14.6	47
15	Ultrasensitive Detection of Hydrogen Peroxide Using Bi₂Te₃ Electrochemical Sensors. ACS Applied Materials & Interfaces, 2021, 13, 4761-4767.	8.0	34
16	Overflow Control for Sustainable Development by Superwetting Surface with Biomimetic Structure. Chemical Reviews, 2023, 123, 2276-2310.	47.7	32
17	A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. Chemistry of Materials, 2018, 30, 6469-6477.	6.7	28
18	Site-selective growth of Ag nanocubes for sharpening their corners and edges, followed by elongation into nanobars through symmetry reduction. Journal of Materials Chemistry C, 2018, 6, 1384-1392.	5.5	27

#	Article	IF	Citations
19	Programmable unidirectional liquid transport on peristome-mimetic surfaces under liquid environments. Journal of Materials Chemistry A, 2019, 7, 18244-18248.	10.3	22
20	Au@Cu Coreâ€“Shell Nanocubes with Controllable Sizes in the Range of 20â€“30 nm for Applications in Catalysis and Plasmonics. ACS Applied Nano Materials, 2019, 2, 1533-1540.	5.0	22
21	Mechanism and performance relevance of nanomorphogenesis in polyamide films revealed by quantitative 3D imaging and machine learning. Science Advances, 2022, 8, eabk1888.	10.3	22
22	Bioinspired Surface with Superwettability for Controllable Liquid Dynamics. Advanced Materials Interfaces, 2021, 8, 2000824.	3.7	21
23	Facile Synthesis of Pd@Pt_{3â€“4L} Coreâ€“Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. ChemCatChem, 2017, 9, 414-419.	3.7	18
24	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. Chemical Communications, 2016, 52, 12594-12597.	4.1	17
25	Droplets Crawling on Peristomeâ€Mimetic Surfaces. Advanced Functional Materials, 2020, 30, 1908066.	14.9	15
26	Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. Chemical Physics Letters, 2017, 683, 613-618.	2.6	13
27	Facile synthesis of gold trisoctahedral nanocrystals with controllable sizes and dihedral angles. Nanoscale, 2018, 10, 11034-11042.	5.6	13
28	Quantitative analysis of the reduction kinetics of a Pt(II) precursor in the context of Pt nanocrystal synthesis. Chinese Journal of Chemical Physics, 2018, 31, 370-374.	1.3	11
29	A Quantitative Analysis of the Reduction Kinetics Involved in the Synthesis of Au@Pd Concave Nanocubes. Chemistry - A European Journal, 2019, 25, 16397-16404.	3.3	11
30	Facile Synthesis of Silver Icosahedral Nanocrystals with Uniform and Controllable Sizes. ChemNanoMat, 2018, 4, 1071-1077.	2.8	9
31	3D Mapping of the Structural Transitions in Wrinkled 2D Membranes: Implications for Reconfigurable Electronics, Memristors, and Bioelectronic Interfaces. ACS Applied Nano Materials, 2019, 2, 5779-5786.	5.0	7
32	Spectroscopic investigation of the structure of a pyrrolidinium-based ionic liquid at electrified interfaces. Journal of Chemical Physics, 2022, 156, 114701.	3.0	3