

Shan Zhou

List of Publications by Year in descending order

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55
papers

2,181
citations

249298

26
h-index

263392

45
g-index

58
all docs

58
docs citations

58
times ranked

3074
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative etching for controlled synthesis of metal nanocrystals: atomic addition and subtraction. <i>Chemical Society Reviews</i> , 2014, 43, 6288.	18.7	229
2	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. <i>ACS Nano</i> , 2016, 10, 9861-9870.	7.3	149
3	Tunable Oxygen Activation for Catalytic Organic Oxidation: Schottky Junction versus Plasmonic Effects. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3205-3209.	7.2	136
4	Decahedral nanocrystals of noble metals: Synthesis, characterization, and applications. <i>Materials Today</i> , 2019, 22, 108-131.	8.3	92
5	Toward a Quantitative Understanding of the Reduction Pathways of a Salt Precursor in the Synthesis of Metal Nanocrystals. <i>Nano Letters</i> , 2017, 17, 334-340.	4.5	87
6	Icosahedral nanocrystals of noble metals: Synthesis and applications. <i>Nano Today</i> , 2017, 15, 121-144.	6.2	83
7	Kinetically Controlled Synthesis of Pd@Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 149-162.	6.6	77
8	Interfacial Superassembly of Porous CeO ₂ /C Frameworks Featuring Efficient and Sensitive Decomposing Li ₂ O ₂ for Smart Li-O ₂ Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901751.	10.2	71
9	Super-assembled core-shell mesoporous silica-metal-phenolic network nanoparticles for combinatorial photothermal therapy and chemotherapy. <i>Nano Research</i> , 2020, 13, 1013-1019.	5.8	69
10	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. <i>ACS Catalysis</i> , 2018, 8, 6948-6960.	5.5	66
11	Autocatalytic surface reduction and its role in controlling seed-mediated growth of colloidal metal nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13619-13624.	3.3	64
12	Kinetics-Controlled Super-Assembly of Asymmetric Porous and Hollow Carbon Nanoparticles as Light-Sensitive Smart Nanovehicles. <i>Journal of the American Chemical Society</i> , 2022, 144, 1634-1646.	6.6	64
13	Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. <i>Journal of the American Chemical Society</i> , 2021, 143, 6922-6932.	6.6	61
14	Synthesis of Pt nanocrystals with different shapes using the same protocol to optimize their catalytic activity toward oxygen reduction. <i>Materials Today</i> , 2018, 21, 834-844.	8.3	58
15	Interfacial Superassembly of Ordered Mesoporous Carbon@Silica/AO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Sensitive Smart Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26167-26176.	7.2	58
16	Tip-Patched Nanoprisms from Formation of Ligand Islands. <i>Journal of the American Chemical Society</i> , 2019, 141, 11796-11800.	6.6	54
17	Superassembly of Surface-Enriched Ru Nanoclusters from Trapping@Bonding Strategy for Efficient Hydrogen Evolution. <i>ACS Nano</i> , 2022, 16, 7993-8004.	7.3	54
18	Enabling Complete Ligand Exchange on the Surface of Gold Nanocrystals through the Deposition and Then Etching of Silver. <i>Journal of the American Chemical Society</i> , 2018, 140, 11898-11901.	6.6	53

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19	Interfacially Super-Assembled Asymmetric and H_2O_2 Sensitive Multilayered Sandwich Magnetic Mesoporous Silica Nanomotors for Detecting and Removing Heavy Metal Ions. <i>Advanced Functional Materials</i> , 2021, 31, 2010694.	7.8	49
20	Three-Dimensional Molecular Mapping of Ionic Liquids at Electrified Interfaces. <i>ACS Nano</i> , 2020, 14, 17515-17523.	7.3	47
21	Interfacial Super-Assembly of Ordered Mesoporous Silica-Alumina Heterostructure Membranes with pH-Sensitive Properties for Osmotic Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8782-8793.	4.0	44
22	Ultrasensitive Detection of Hydrogen Peroxide Using Bi_2Te_3 Electrochemical Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4761-4767.	4.0	34
23	Interfacial Super-Assembly of T-Mode Janus Porous Heterochannels from Layered Graphene and Aluminum Oxide Array for Smart Oriented Ion Transportation. <i>Small</i> , 2021, 17, e2100141.	5.2	30
24	A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. <i>Chemistry of Materials</i> , 2018, 30, 6469-6477.	3.2	28
25	Site-selective growth of Ag nanocubes for sharpening their corners and edges, followed by elongation into nanobars through symmetry reduction. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1384-1392.	2.7	27
26	General Synergistic Capture-Bonding Superassembly of Atomically Dispersed Catalysts on Micropore-Vacancy Frameworks. <i>Nano Letters</i> , 2022, 22, 2889-2897.	4.5	27
27	Soft Patch Interface-Oriented Superassembly of Complex Hollow Nanoarchitectures for Smart Dual-Responsive Nanospacecrafts. <i>Journal of the American Chemical Society</i> , 2022, 144, 7778-7789.	6.6	25
28	Ligand-Mediated Spatially Controllable Superassembly of Asymmetric Hollow Nanotadpoles with Fine-Tunable Cavity as Smart H_2O_2 -Sensitive Nanoswimmers. <i>ACS Nano</i> , 2021, 15, 11451-11460.	7.3	24
29	Au@Cu Core-Shell Nanocubes with Controllable Sizes in the Range of 20-30 nm for Applications in Catalysis and Plasmonics. <i>ACS Applied Nano Materials</i> , 2019, 2, 1533-1540.	2.4	22
30	Mechanism and performance relevance of nanomorphogenesis in polyamide films revealed by quantitative 3D imaging and machine learning. <i>Science Advances</i> , 2022, 8, eabk1888.	4.7	22
31	Super-Assembled Chiral Mesostructured Heteromembranes for Smart and Sensitive Couple-Accelerated Enantioseparation. <i>Journal of the American Chemical Society</i> , 2022, 144, 13794-13805.	6.6	22
32	Quantitative Analysis of the Multiple Roles Played by Halide Ions in Controlling the Growth Patterns of Palladium Nanocrystals. <i>ChemNanoMat</i> , 2020, 6, 576-588.	1.5	21
33	Interfacial Super-Assembly of Nanofluidic Heterochannels from Layered Graphene and Alumina Oxide Arrays for Label-Free Histamine-Specific Detection. <i>Analytical Chemistry</i> , 2021, 93, 2982-2987.	3.2	20
34	Facile Synthesis of Pd@Pt ₃ Co ₄ Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 414-419.	1.8	18
35	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. <i>Chemical Communications</i> , 2016, 52, 12594-12597.	2.2	17
36	Interfacial Superassembly of Mesoporous Titania Nanopillar-Arrays/Alumina Oxide Heterochannels for Light- and pH-Responsive Smart Ion Transport. <i>ACS Central Science</i> , 2022, 8, 361-369.	5.3	14

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37	Interfacial Superassembly of Light-Responsive Mechanism-Switchable Nanomotors with Tunable Mobility and Directionality. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15517-15528.	4.0	14
38	Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. <i>Chemical Physics Letters</i> , 2017, 683, 613-618.	1.2	13
39	Facile synthesis of gold trisoctahedral nanocrystals with controllable sizes and dihedral angles. <i>Nanoscale</i> , 2018, 10, 11034-11042.	2.8	13
40	Interfacial Superassembly of Ordered Mesoporous Carbon-Silica/AAO Hybrid Membrane with Enhanced Permselectivity for Temperature- and pH-Sensitive Smart Ion Transport. <i>Angewandte Chemie</i> , 2021, 133, 26371-26380.	1.6	12
41	Quantitative analysis of the reduction kinetics of a Pt(II) precursor in the context of Pt nanocrystal synthesis. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 370-374.	0.6	11
42	A Quantitative Analysis of the Reduction Kinetics Involved in the Synthesis of Au@Pd Concave Nanocubes. <i>Chemistry - A European Journal</i> , 2019, 25, 16397-16404.	1.7	11
43	Interfacially Super-Assembled Tyramine-Modified Mesoporous Silica-Alumina Oxide Heterochannels for Label-Free Tyrosinase Detection. <i>Analytical Chemistry</i> , 2022, 94, 2589-2596.	3.2	10
44	Facile Synthesis of Silver Icosahedral Nanocrystals with Uniform and Controllable Sizes. <i>ChemNanoMat</i> , 2018, 4, 1071-1077.	1.5	9
45	Super-assembly of freestanding graphene oxide-aramid fiber membrane with T-mode subnanochannels for sensitive ion transport. <i>Analyst</i> , 2022, 147, 652-660.	1.7	8
46	3D Mapping of the Structural Transitions in Wrinkled 2D Membranes: Implications for Reconfigurable Electronics, Memristors, and Bioelectronic Interfaces. <i>ACS Applied Nano Materials</i> , 2019, 2, 5779-5786.	2.4	7
47	Colloidal Nanospheres of Amorphous Selenium: Facile Synthesis, Size Control, and Optical Properties. <i>ChemNanoMat</i> , 2021, 7, 620-625.	1.5	5
48	Sol-gel Transition of Methylcellulose Solution in the Coexistence of Hexadecyltrimethylammonium Bromide and Sodium Chloride. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 489-496.	0.6	4
49	Nonclassical Crystallization Observed by Liquid-Phase Transmission Electron Microscopy. <i>ACS Symposium Series</i> , 2020, , 115-146.	0.5	4
50	Mechanistic Study of Seed-Mediated Growth of Gold Rhombic Dodecahedra. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27394-27402.	1.5	4
51	Patchy Nanoparticle Synthesis and Self-Assembly. , 2020, , .		3
52	Spectroscopic investigation of the structure of a pyrrolidinium-based ionic liquid at electrified interfaces. <i>Journal of Chemical Physics</i> , 2022, 156, 114701.	1.2	3
53	Li ⁺ O ₂ Batteries: Interfacial Super-Assembled Porous CeO ₂ /C Frameworks Featuring Efficient and Sensitive Decomposing Li ₂ O ₂ for Smart Li ⁺ O ₂ Batteries (<i>Adv. Energy Mater.</i> 40/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970157.	10.2	2
54	Facile Synthesis of Pd@Pt ₃ -4L Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017, 9, 376-376.	1.8	0

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55	Characterizing Self-Assembly of Plasmonic Nanostructures in Real Space and Reciprocal Space. , 2022, , 209-238.		0