Ming Zhao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Noble-Metal Nanocrystals with Controlled Shapes for Catalytic and Electrocatalytic Applications. Chemical Reviews, 2021, 121, 649-735.	23.0	388
2	Synthesis and Characterization of Pt–Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. Nano Letters, 2016, 16, 6644-6649.	4.5	150
3	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, 16944-16963.	1.7	143
4	Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 ŰC, and Enhanced Catalytic Activity. Journal of the American Chemical Society, 2019, 141, 7028-7036.	6.6	122
5	Ruthenium–platinum core–shell nanocatalysts with substantially enhanced activity and durability towards methanol oxidation. Nano Energy, 2016, 21, 247-257.	8.2	121
6	Crystal-phase and surface-structure engineering of ruthenium nanocrystals. Nature Reviews Materials, 2020, 5, 440-459.	23.3	118
7	Shapeâ€Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. Advanced Materials, 2018, 30, e1706312.	11.1	114
8	Synthesis and Characterization of Ru Cubic Nanocages with a Face-Centered Cubic Structure by Templating with Pd Nanocubes. Nano Letters, 2016, 16, 5310-5317.	4.5	110
9	The degradation study of Nafion/PTFE composite membrane in PEM fuel cell under accelerated stress tests. International Journal of Hydrogen Energy, 2014, 39, 14381-14390.	3.8	103
10	Decahedral nanocrystals of noble metals: Synthesis, characterization, and applications. Materials Today, 2019, 22, 108-131.	8.3	92
11	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Wellâ€Controlled Surface Structures. Advanced Materials, 2018, 30, e1801956.	11.1	83
12	Catalytic System Based on Sub-2 nm Pt Particles and Its Extraordinary Activity and Durability for Oxygen Reduction. Nano Letters, 2019, 19, 4997-5002.	4.5	68
13	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. ACS Catalysis, 2018, 8, 6948-6960.	5.5	66
14	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.	8.3	58
15	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. Chemistry of Materials, 2017, 29, 9227-9237.	3.2	55
16	Incorporation of gold nanocages into electrospun nanofibers for efficient water evaporation through photothermal heating. Materials Today Energy, 2019, 12, 129-135.	2.5	54
17	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.	6.6	53
18	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. ACS Nano, 2019, 13, 7241-7251.	7.3	47

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19	Pdâ€Ru Alloy Nanocages with a Faceâ€Centered Cubic Structure and Their Enhanced Activity toward the Oxidation of Ethylene Glycol and Glycerol. Small Methods, 2020, 4, 1900843.	4.6	46
20	Vitamin E assisted polymer electrolyte fuel cells. Energy and Environmental Science, 2014, 7, 3362-3370.	15.6	35
21	Influence of Membrane Thickness on Membrane Degradation and Platinum Agglomeration under Long-term Open Circuit Voltage Conditions. Electrochimica Acta, 2015, 153, 254-262.	2.6	35
22	A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. Chemistry of Materials, 2018, 30, 6469-6477.	3.2	28
23	Performance improvement of the open-cathode proton exchange membrane fuel cell by optimizing membrane electrode assemblies. International Journal of Hydrogen Energy, 2015, 40, 7159-7167.	3.8	27
24	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.	2.7	27
25	Kinetically Controlled Synthesis of Rhodium Nanocrystals with Different Shapes and a Comparison Study of Their Thermal and Catalytic Properties. Journal of the American Chemical Society, 2021, 143, 6293-6302.	6.6	26
26	Nanoscale cooperative adsorption for materials control. Nature Communications, 2021, 12, 4287.	5.8	26
27	The performance improvement of membrane and electrode assembly in open-cathode proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2013, 38, 10978-10984.	3.8	22
28	Au@Cu Core–Shell Nanocubes with Controllable Sizes in the Range of 20–30 nm for Applications in Catalysis and Plasmonics. ACS Applied Nano Materials, 2019, 2, 1533-1540.	2.4	22
29	Quantitative Analysis of the Multiple Roles Played by Halide Ions in Controlling the Growth Patterns of Palladium Nanocrystals. ChemNanoMat, 2020, 6, 576-588.	1.5	21
30	Toward a Quantitative Understanding of the Sulfate-Mediated Synthesis of Pd Decahedral Nanocrystals with High Conversion and Morphology Yields. Chemistry of Materials, 2016, 28, 8800-8806.	3.2	20
31	Enhancing the tactile and near-infrared sensing capabilities of electrospun PVDF nanofibers with the use of gold nanocages. Journal of Materials Chemistry C, 2018, 6, 10263-10269.	2.7	18
32	Analysis of carbon-supported platinum through potential cycling and potential-static holding. International Journal of Hydrogen Energy, 2014, 39, 13725-13737.	3.8	17
33	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. ChemNanoMat, 2018, 4, 66-70.	1.5	15
34	Assessing the shear band velocity in metallic glasses using a coupled thermo-mechanical model. Philosophical Magazine Letters, 2011, 91, 705-712.	0.5	13
35	Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. Chemical Physics Letters, 2017, 683, 613-618.	1.2	13
36	Pt–Co truncated octahedral nanocrystals: a class of highly active and durable catalysts toward oxygen reduction. Nanoscale, 2020, 12, 11718-11727.	2.8	13

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37	Oneâ€Pot Synthesis of Pd@Pt _{<i>n</i>L} Coreâ€Shell Icosahedral Nanocrystals in High Throughput through a Quantitative Analysis of the Reduction Kinetics. Chemistry - A European Journal, 2019, 25, 5322-5329.	1.7	12
38	Exploring Plasmonic Photocatalysis via Single-Molecule Reaction Imaging. Nano Letters, 2020, 20, 2939-2940.	4.5	12
39	Graphene coated La 3+ /Sc 3+ co-doped Li 4 Ti 5 O 12 anodes for enhanced Li-ion battery performance. Materials Letters, 2017, 193, 179-182.	1.3	11
40	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.	0.6	11
41	Facile Synthesis of Pt Icosahedral Nanocrystals with Controllable Sizes for the Evaluation of Sizeâ€Dependent Activity toward Oxygen Reduction. ChemCatChem, 2019, 11, 2458-2463.	1.8	11
42	Toward affordable and sustainable use of precious metals in catalysis and nanomedicine. MRS Bulletin, 2018, 43, 860-869.	1.7	9
43	Pd–Au Asymmetric Nanopyramids: Lateral vs Vertical Growth of Au on Pd Decahedral Seeds. Chemistry of Materials, 2021, 33, 5391-5400.	3.2	9
44	A Simple Route to the Synthesis of Pt Nanobars and the Mechanistic Understanding of Symmetry Reduction. Chemistry - A European Journal, 2021, 27, 2760-2766.	1.7	5
45	Facile synthesis of Pt–Ag octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. Journal of Materials Research, 2018, 33, 3891-3897.	1.2	3
46	Synthesis and Characterization of Ptâ€Ag Icosahedral Nanocages with Enhanced Catalytic Activity toward Oxygen Reduction. ChemNanoMat, 0, , .	1.5	1
47	Frontispiece: Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, .	1.7	Ο