List of Publications by Year in descending order

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KVIED CIIROV

#	Article	IF	CITATIONS
1	Decomposition Kinetics of H ₂ O ₂ on Pd Nanocrystals with Different Shapes and Surface Strains. ChemCatChem, 2022, 14, .	3.7	5
2	Colloidal Nanospheres of Amorphous Selenium: Facile Synthesis, Size Control, and Optical Properties. ChemNanoMat, 2021, 7, 620-625.	2.8	5
3	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. Nano Letters, 2019, 19, 6703-6708.	9.1	51
4	Photothermal transformation of Au–Ag nanocages under pulsed laser irradiation. Nanoscale, 2019, 11, 3013-3020.	5.6	29
5	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. ACS Nano, 2019, 13, 7241-7251.	14.6	47
6	Synthesis and Properties of Au Hydride. ChemistrySelect, 2019, 4, 4287-4292.	1.5	4
7	A facile, robust and scalable method for the synthesis of Pd nanoplates with hydroxylamine as a reducing agent and mechanistic insights from kinetic analysis. Journal of Materials Chemistry C, 2018, 6, 4677-4682.	5.5	22
8	Synthesis of Palladium Nanoscale Octahedra through a Oneâ€Pot, Dualâ€Reductant Route and Kinetic Analysis. Chemistry - A European Journal, 2018, 24, 6133-6139.	3.3	18
9	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. ChemNanoMat, 2018, 4, 66-70.	2.8	15
10	Frontispiece: Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, .	3.3	0
11	Electrospun metal and metal alloy decorated TiO2 nanofiber photocatalysts for hydrogen generation. RSC Advances, 2018, 8, 32865-32876.	3.6	15
12	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
13	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
14	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
15	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
16	Shapeâ€Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. Advanced Materials, 2018, 30, e1706312.	21.0	114
17	Fabrication of Subâ€Micrometerâ€Thick Solid Electrolyte Membranes of βâ€Li ₃ PS ₄ via Tiled Assembly of Nanoscale, Plateâ€Like Building Blocks. Advanced Energy Materials, 2018, 8, 1800014.	19.5	47
18	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well ontrolled Surface Structures. Advanced Materials, 2018, 30, e1801956.	21.0	83

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19	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, 16944-16963.	3.3	143
20	Pentatwinned Cu Nanowires with Ultrathin Diameters below 20â€nm and Their Use as Templates for the Synthesis of Auâ€Based Nanotubes. ChemNanoMat, 2017, 3, 190-195.	2.8	25
21	Intermetallic Nanocrystals: Syntheses and Catalytic Applications. Advanced Materials, 2017, 29, 1605997.	21.0	375
22	Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. Chemical Physics Letters, 2017, 683, 613-618.	2.6	13
23	Thermal Stability of Metal Nanocrystals: An Investigation of the Surface and Bulk Reconstructions of Pd Concave Icosahedra. Nano Letters, 2017, 17, 3655-3661.	9.1	43
24	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. Angewandte Chemie, 2017, 129, 8773-8777.	2.0	6
25	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 8647-8651.	13.8	21
26	Symmetry breaking during nanocrystal growth. Chemical Communications, 2017, 53, 4530-4541.	4.1	84
27	Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. Angewandte Chemie, 2017, 129, 60-98.	2.0	64
28	Seedâ€Mediated Growth of Colloidal Metal Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 60-95.	13.8	581
29	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. Chemistry of Materials, 2017, 29, 9227-9237.	6.7	55
30	Waterâ€Based Synthesis of Subâ€10 nm Pt Octahedra and Their Performance towards the Oxygen Reduction Reaction. ChemNanoMat, 2017, 3, 879-884.	2.8	22
31	Icosahedral nanocrystals of noble metals: Synthesis and applications. Nano Today, 2017, 15, 121-144.	11.9	83
32	Controlling the Deposition of Pd on Au Nanocages: Outer Surface Only versus Both Outer and Inner Surfaces. Nano Letters, 2017, 17, 5682-5687.	9.1	12
33	Reduction rate as a quantitative knob for achieving deterministic synthesis of colloidal metal nanocrystals. Chemical Science, 2017, 8, 6730-6749.	7.4	75
34	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
35	Facile Synthesis of ⁶⁴ Cuâ€Đoped Au Nanocages for Positron Emission Tomography Imaging. ChemNanoMat, 2017, 3, 44-50.	2.8	16
36	A General Approach to the Synthesis of M@Au/Ag (M = Au, Pd, and Pt) Nanorattles with Ultrathin Shells Less Than 2.5 nm Thick. Particle and Particle Systems Characterization, 2017, 34, 1600279.	2.3	9

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37	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. Chemical Reviews, 2016, 116, 10414-10472.	47.7	1,339
38	Micropatterned Polymer Nanorod Forests and Their Use for Dual Drug Loading and Regulation of Cell Adhesion. ACS Applied Materials & Interfaces, 2016, 8, 34194-34197.	8.0	6
39	A Wulff in a Cage: The Confinement of Substrate-Based Structures in Plasmonic Nanoshells, Nanocages, and Nanoframes Using Galvanic Replacement. ACS Nano, 2016, 10, 6354-6362.	14.6	50
40	Plastically deformed Cu-based alloys as high-performance catalysts for the reduction of 4-nitrophenol. Catalysis Science and Technology, 2016, 6, 5737-5745.	4.1	15
41	Palladium@Platinum Concave Nanocubes with Enhanced Catalytic Activity toward Oxygen Reduction. ChemCatChem, 2016, 8, 3082-3088.	3.7	19
42	Dimerization of Colloidal Particles through Controlled Aggregation for Enhanced Properties and Applications. Chemistry - an Asian Journal, 2016, 11, 2341-2351.	3.3	15
43	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.	6.7	20
44	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. ACS Nano, 2016, 10, 9861-9870.	14.6	149
45	Noble Metal Nanostructure Synthesis at the Liquid–Substrate Interface: New Structures, New Insights, and New Possibilities. Accounts of Chemical Research, 2016, 49, 2243-2250.	15.6	46
46	Gold-Based Cubic Nanoboxes with Well-Defined Openings at the Corners and Ultrathin Walls Less Than Two Nanometers Thick. ACS Nano, 2016, 10, 8019-8025.	14.6	65
47	Citrateâ€Induced Nanocubes: A Reâ€Examination of the Role of Citrate as a Shapeâ€Directing Capping Agent for Agâ€Based Nanostructures. Small, 2016, 12, 3444-3452.	10.0	27
48	Photocatalytic Enhancements to the Reduction of 4-Nitrophenol by Resonantly Excited Triangular Gold–Copper Nanostructures. Journal of Physical Chemistry C, 2015, 119, 17308-17315.	3.1	71
49	Eutectic Combinations as a Pathway to the Formation of Substrateâ€Based Auâ€Ge Heterodimers and Hollowed Au Nanocrescents with Tunable Optical Properties. Small, 2014, 10, 3379-3388.	10.0	13
50	Mechanistic study of substrate-based galvanic replacement reactions. Nano Research, 2014, 7, 365-379.	10.4	32
51	Kinetically Controlled Nucleation of Silver on Surfactant-Free Gold Seeds. Journal of the American Chemical Society, 2014, 136, 15337-15345.	13.7	62
52	Textile-templated electrospun anisotropic scaffolds for regenerative cardiac tissue engineering. Biomaterials, 2014, 35, 8540-8552.	11.4	85
53	Seeing Is Believing: Hot Electron Based Gold Nanoplasmonic Optical Hydrogen Sensor. ACS Nano, 2014, 8, 7755-7762.	14.6	80
54	Sacrificial Templates for Galvanic Replacement Reactions: Design Criteria for the Synthesis of Pure Pt Nanoshells with a Smooth Surface Morphology, Chemistry of Materials, 2014, 26, 3340-3347	6.7	72

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55	Behavior of gold nanoparticles in an experimental algal–zooplankton food chain. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	18
56	Substrate-based galvanic replacement reactions carried out on heteroepitaxially formed silver templates. Nano Research, 2013, 6, 418-428.	10.4	26
57	Organized Surfaces of Highly Faceted Single-Crystal Palladium Structures Seeded by Sacrificial Templates. Crystal Growth and Design, 2013, 13, 3847-3851.	3.0	11
58	Dynamic templating: a large area processing route for the assembly of periodic arrays of sub-micrometer and nanoscale structures. Nanoscale, 2013, 5, 1929.	5.6	45