Da Huo

List of Publications by Year
in descending order

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446	91,500	397 133	277 295
papers	citations	h-index	g-index

510	510	510	65247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shape-Controlled Synthesis of Gold and Silver Nanoparticles. Science, 2002, 298, 2176-2179.	6.0	6,070
2	Shapeâ€Controlled Synthesis of Metal Nanocrystals: Simple Chemistry Meets Complex Physics?. Angewandte Chemie - International Edition, 2009, 48, 60-103.	7.2	4,930
3	Electrospinning and Electrospun Nanofibers: Methods, Materials, and Applications. Chemical Reviews, 2019, 119, 5298-5415.	23.0	2,814
4	Controlling the Synthesis and Assembly of Silver Nanostructures for Plasmonic Applications. Chemical Reviews, 2011, 111, 3669-3712.	23.0	2,410
5	Gold nanostructures: engineering their plasmonic properties for biomedical applications. Chemical Society Reviews, 2006, 35, 1084.	18.7	1,595
6	Unconventional Methods for Fabricating and Patterning Nanostructures. Chemical Reviews, 1999, 99, 1823-1848.	23.0	1,518
7	Polyol Synthesis of Uniform Silver Nanowires:Â A Plausible Growth Mechanism and the Supporting Evidence. Nano Letters, 2003, 3, 955-960.	4.5	1,473
8	Engineered Nanoparticles for Drug Delivery in Cancer Therapy. Angewandte Chemie - International Edition, 2014, 53, 12320-12364.	7.2	1,447
9	Crystalline Silver Nanowires by Soft Solution Processing. Nano Letters, 2002, 2, 165-168.	4.5	1,436
10	Shape-Controlled Synthesis of Metal Nanostructures: The Case of Silver. Chemistry - A European Journal, 2005, 11, 454-463.	1.7	1,421
11	Electrospinning of Polymeric and Ceramic Nanofibers as Uniaxially Aligned Arrays. Nano Letters, 2003, 3, 1167-1171.	4.5	1,381
12	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. Chemical Reviews, 2016, 116, 10414-10472.	23.0	1,339
13	Gold Nanocages: Synthesis, Properties, and Applications. Accounts of Chemical Research, 2008, 41, 1587-1595.	7.6	1,336
14	Gold nanocages covered by smart polymers for controlled release with near-infrared light. Nature Materials, 2009, 8, 935-939.	13.3	1,335
15	Langmuirâ€Blodgett Silver Nanowire Monolayers for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. Nano Letters, 2003, 3, 1229-1233.	4.5	1,267
16	Fabrication of Titania Nanofibers by Electrospinning. Nano Letters, 2003, 3, 555-560.	4.5	1,183
17	Direct Fabrication of Composite and Ceramic Hollow Nanofibers by Electrospinning. Nano Letters, 2004, 4, 933-938.	4.5	1,158
18	Immuno Gold Nanocages with Tailored Optical Properties for Targeted Photothermal Destruction of Cancer Cells. Nano Letters, 2007, 7, 1318-1322.	4.5	999

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19	Gold Nanomaterials at Work in Biomedicine. Chemical Reviews, 2015, 115, 10410-10488.	23.0	986
20	CuO Nanowires Can Be Synthesized by Heating Copper Substrates in Air. Nano Letters, 2002, 2, 1333-1338.	4.5	941
21	Polyol Synthesis of Silver Nanoparticles:â€‰ Use of Chloride and Oxygen to Promote the Formation of Single-Crystal, Truncated Cubes and Tetrahedrons. Nano Letters, 2004, 4, 1733-1739.	4.5	908
22	Template-Engaged Replacement Reaction:â€‰ A One-Step Approach to the Large-Scale Synthesis of Metal Nanostructures with Hollow Interiors. Nano Letters, 2002, 2, 481-485.	4.5	902
23	25th Anniversary Article: Galvanic Replacement: A Simple and Versatile Route to Hollow Nanostructures with Tunable and Wellâ€Controlled Properties. Advanced Materials, 2013, 25, 6313-6333.	11.1	856
24	Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. Science, 2015, 349, 412-416.	6.0	854
25	Facile synthesis of Ag nanocubes and Au nanocages. Nature Protocols, 2007, 2, 2182-2190.	5.5	853
26	Electrospun Nanofibers: New Concepts, Materials, and Applications. Accounts of Chemical Research, 2017, 50, 1976-1987.	7.6	826
27	Shape-controlled synthesis of platinum nanocrystals for catalytic and electrocatalytic applications. Nano Today, 2009, 4, 81-95.	6.2	805
28	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals: Thermodynamic versus Kinetic Products. Journal of the American Chemical Society, 2015, 137, 7947-7966.	6.6	758
29	Gold Nanocages: From Synthesis to Theranostic Applications. Accounts of Chemical Research, 2011, 44, 914-924.	7.6	755
30	Understanding the Role of Surface Charges in Cellular Adsorption versus Internalization by Selectively Removing Gold Nanoparticles on the Cell Surface with a I₂/KI Etchant. Nano Letters, 2009, 9, 1080-1084.	4.5	728
31	Transformation of Silver Nanospheres into Nanobelts and Triangular Nanoplates through a Thermal Process. Nano Letters, 2003, 3, 675-679.	4.5	716
32	The effect of sedimentation and diffusion on cellular uptake of gold nanoparticles. Nature Nanotechnology, 2011, 6, 385-391.	15.6	637
33	Kinetically Controlled Synthesis of Triangular and Hexagonal Nanoplates of Palladium and Their SPR/SERS Properties. Journal of the American Chemical Society, 2005, 127, 17118-17127.	6.6	629
34	Synthesis and Optical Properties of Silver Nanobars and Nanorice. Nano Letters, 2007, 7, 1032-1036.	4.5	590
35	Seedâ€Mediated Growth of Colloidal Metal Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 60-95.	7.2	581
36	Poly(vinyl pyrrolidone):Â A Dual Functional Reductant and Stabilizer for the Facile Synthesis of Noble Metal Nanoplates in Aqueous Solutions. Langmuir, 2006, 22, 8563-8570.	1.6	578

#	Article	IF	Citations
37	Synthesis and Mechanistic Study of Palladium Nanobars and Nanorods. Journal of the American Chemical Society, 2007, 129, 3665-3675.	6.6	570
38	Shape-Controlled Synthesis of Pd Nanocrystals and Their Catalytic Applications. Accounts of Chemical Research, 2013, 46, 1783-1794.	7.6	568
39	Shapeâ€Controlled Synthesis of Pd Nanocrystals in Aqueous Solutions. Advanced Functional Materials, 2009, 19, 189-200.	7.8	567
40	Synthesis and Self-Assembly of Au@SiO2 Coreâ˜Shell Colloids. Nano Letters, 2002, 2, 785-788.	4.5	548
41	Synthesis and Characterization of 9 nm Ptâ€“Ni Octahedra with a Record High Activity of 3.3 A/mg_{Pt} for the Oxygen Reduction Reaction. Nano Letters, 2013, 13, 3420-3425.	4.5	542
42	Polymer hollow particles with controllable holes in their surfaces. Nature Materials, 2005, 4, 671-675.	13.3	524
43	Optical Properties of Pdâ˜Ag and Ptâ˜Ag Nanoboxes Synthesized via Galvanic Replacement Reactions. Nano Letters, 2005, 5, 2058-2062.	4.5	508
44	Rapid synthesis of silver nanowires through a CuCl- or CuCl₂-mediated polyol process. Journal of Materials Chemistry, 2008, 18, 437-441.	6.7	494
45	Ethylene glycol-mediated synthesis of metal oxide nanowires. Journal of Materials Chemistry, 2004, 14, 695.	6.7	491
46	Single-Crystal Nanowires of Platinum Can Be Synthesized by Controlling the Reaction Rate of a Polyol Process. Journal of the American Chemical Society, 2004, 126, 10854-10855.	6.6	469
47	Gold Nanocages for Biomedical Applications. Advanced Materials, 2007, 19, 3177-3184.	11.1	464
48	Controlling the Thickness of the Surface Oxide Layer on Cu Nanoparticles for the Fabrication of Conductive Structures by Inkâ€Jet Printing. Advanced Functional Materials, 2008, 18, 679-686.	7.8	459
49	Atomic Layer-by-Layer Deposition of Pt on Pd Nanocubes for Catalysts with Enhanced Activity and Durability toward Oxygen Reduction. Nano Letters, 2014, 14, 3570-3576.	4.5	448
50	Synthesis and characterization of stable aqueous dispersions of silver nanoparticles through the Tollens processElectronic supplementary information (ESI) available: photographs of silver mirror, and of stable dispersions of silver nanoparticles from mixing diluted silvering solutions under sonication at various times. See http://www.rsc.org/suppdata/jm/b1/b107469e/. Journal of Materials Chemistry, 2002, 12, 522-527.	6.7	445
51	Electrospinning: A Simple and Versatile Technique for Producing Ceramic Nanofibers and Nanotubes. Journal of the American Ceramic Society, 2006, 89, 1861-1869.	1.9	443
52	Palladiumâ€“platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. Nature Communications, 2015, 6, 7594.	5.8	440
53	Synthesis of Pd nanocrystals enclosed by {100} facets and with sizes <10 nm for application in CO oxidation. Nano Research, 2011, 4, 83-91.	5.8	436
54	Understanding the Role of Oxidative Etching in the Polyol Synthesis of Pd Nanoparticles with Uniform Shape and Size. Journal of the American Chemical Society, 2005, 127, 7332-7333.	6.6	428

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55	Bottom-Up and Top-Down Approaches to the Synthesis of Monodispersed Spherical Colloids of Low Melting-Point Metals. Nano Letters, 2004, 4, 2047-2050.	4.5	425
56	Controlling the Shapes of Silver Nanocrystals with Different Capping Agents. Journal of the American Chemical Society, 2010, 132, 8552-8553.	6.6	412
57	Nobleâ€Metal Nanocrystals with Concave Surfaces: Synthesis and Applications. Angewandte Chemie - International Edition, 2012, 51, 7656-7673.	7.2	411
58	Synthesis of Pdâ˜Pt Bimetallic Nanocrystals with a Concave Structure through a Bromide-Induced Galvanic Replacement Reaction. Journal of the American Chemical Society, 2011, 133, 6078-6089.	6.6	405
59	Electrospinning of nanofibers with core-sheath, hollow, or porous structures. Journal of Materials Chemistry, 2005, 15, 735.	6.7	401
60	Size-Dependence of Surface Plasmon Resonance and Oxidation for Pd Nanocubes Synthesized via a Seed Etching Process. Nano Letters, 2005, 5, 1237-1242.	4.5	399
61	Polyol Synthesis of Platinum Nanoparticles:Â Control of Morphology with Sodium Nitrate. Nano Letters, 2004, 4, 2367-2371.	4.5	397
62	Polyol Synthesis of Platinum Nanostructures: Control of Morphology through the Manipulation of Reduction Kinetics. Angewandte Chemie - International Edition, 2005, 44, 2589-2592.	7.2	391
63	Noble-Metal Nanocrystals with Controlled Shapes for Catalytic and Electrocatalytic Applications. Chemical Reviews, 2021, 121, 649-735.	23.0	388
64	A New Theranostic System Based on Gold Nanocages and Phase-Change Materials with Unique Features for Photoacoustic Imaging and Controlled Release. Journal of the American Chemical Society, 2011, 133, 4762-4765.	6.6	382
65	Seed-Mediated Synthesis of Ag Nanocubes with Controllable Edge Lengths in the Range of 30â˜200 nm and Comparison of Their Optical Properties. Journal of the American Chemical Society, 2010, 132, 11372-11378.	6.6	380
66	Intermetallic Nanocrystals: Syntheses and Catalytic Applications. Advanced Materials, 2017, 29, 1605997.	11.1	375
67	Right Bipyramids of Silver:â€‰ A New Shape Derived from Single Twinned Seeds. Nano Letters, 2006, 6, 765-768.	4.5	365
68	Shape-Controlled Synthesis of Silver Nanoparticles for Plasmonic and Sensing Applications. Plasmonics, 2009, 4, 171-179.	1.8	364
69	Palladium nanocrystals enclosed by {100} and {111} facets in controlled proportions and their catalytic activities for formic acid oxidation. Energy and Environmental Science, 2012, 5, 6352-6357.	15.6	358
70	Silver Nanowires Can Be Directly Coated with Amorphous Silica To Generate Well-Controlled Coaxial Nanocables of Silver/Silica. Nano Letters, 2002, 2, 427-430.	4.5	351
71	Assembly of Mesoscale Particles over Large Areas and Its Application in Fabricating Tunable Optical Filters. Langmuir, 1999, 15, 266-273.	1.6	345
72	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6669-6673.	3.3	339

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73	Alloying and Dealloying Processes Involved in the Preparation of Metal Nanoshells through a Galvanic Replacement Reaction. Nano Letters, 2003, 3, 1569-1572.	4.5	333
74	Crystallization of Mesoscale Particles over Large Areas. Advanced Materials, 1998, 10, 1028-1032.	11.1	332
75	Mechanistic Studies on the Galvanic Replacement Reaction between Multiply Twinned Particles of Ag and HAuCl4in an Organic Medium. Journal of the American Chemical Society, 2007, 129, 1733-1742.	6.6	331
76	On the Polyol Synthesis of Silver Nanostructures: Glycolaldehyde as a Reducing Agent. Nano Letters, 2008, 8, 2077-2081.	4.5	324
77	Colloidal Crystals with Tunable Colors and Their Use as Photonic Papers. Langmuir, 2003, 19, 9653-9660.	1.6	318
78	Ceramic nanofibers fabricated by electrospinning and their applications in catalysis, environmental science, and energy technology. Polymers for Advanced Technologies, 2011, 22, 326-338.	1.6	307
79	Facile Synthesis of Ag Nanocubes of 30 to 70â€…nm in Edge Length with CF₃COOAg as a Precursor. Chemistry - A European Journal, 2010, 16, 10234-10239.	1.7	298
80	Pd@Pt Coreâ€“Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. Journal of the American Chemical Society, 2015, 137, 15036-15042.	6.6	296
81	Stimuliâ€Responsive Materials for Controlled Release of Theranostic Agents. Advanced Functional Materials, 2014, 24, 4206-4220.	7.8	294
82	Emerging Applications of Phaseâ€Change Materials (PCMs): Teaching an Old Dog New Tricks. Angewandte Chemie - International Edition, 2014, 53, 3780-3795.	7.2	292
83	One-dimensional nanostructures of trigonal tellurium with various morphologies can be synthesized using a solution-phase approach. Journal of Materials Chemistry, 2002, 12, 1875-1881.	6.7	291
84	Macroporous Membranes with Highly Ordered and Three-Dimensionally Interconnected Spherical Pores. Advanced Materials, 1998, 10, 1045-1048.	11.1	282
85	Accelerating the Translation of Nanomaterials in Biomedicine. ACS Nano, 2015, 9, 6644-6654.	7.3	279
86	Quantitative Analysis of the Role Played by Poly(vinylpyrrolidone) in Seed-Mediated Growth of Ag Nanocrystals. Journal of the American Chemical Society, 2012, 134, 1793-1801.	6.6	277
87	Synthesis of Ag Nanocubes 18â€“32 nm in Edge Length: The Effects of Polyol on Reduction Kinetics, Size Control, and Reproducibility. Journal of the American Chemical Society, 2013, 135, 1941-1951.	6.6	275
88	Successive, Seedâ€Mediated Growth for the Synthesis of Singleâ€Crystal Gold Nanospheres with Uniform Diameters Controlled in the Range of 5â€“150 nm. Particle and Particle Systems Characterization, 2014, 31, 266-273.	1.2	269
89	Synthesis of Palladium Icosahedra with Twinned Structure by Blocking Oxidative Etching with Citric Acid or Citrate Ions. Angewandte Chemie - International Edition, 2007, 46, 790-794.	7.2	254
90	A Comparative Study of Galvanic Replacement Reactions Involving Ag Nanocubes and AuCl₂^{â˜’} or AuCl₄^{â˜’}. Advanced Materials, 2008, 20, 2517-2522.	11.1	246

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91	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. Chemical Reviews, 2019, 119, 8972-9073.	23.0	240
92	Facile Synthesis of Highly Faceted Multioctahedral Pt Nanocrystals through Controlled Overgrowth. Nano Letters, 2008, 8, 4043-4047.	4.5	236
93	Facile Synthesis of Pdâ€“Pt Alloy Nanocages and Their Enhanced Performance for Preferential Oxidation of CO in Excess Hydrogen. ACS Nano, 2011, 5, 8212-8222.	7.3	236
94	Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. Nano Letters, 2016, 16, 1467-1471.	4.5	228
95	Nanomaterials at work in biomedical research. Nature Materials, 2008, 7, 758-760.	13.3	227
96	Synthesis of Pdâ€Rh Coreâ€“Frame Concave Nanocubes and Their Conversion to Rh Cubic Nanoframes by Selective Etching of the Pd Cores. Angewandte Chemie - International Edition, 2012, 51, 10266-10270.	7.2	226
97	Magnetic nanofibers of nickel ferrite prepared by electrospinning. Applied Physics Letters, 2003, 83, 4586-4588.	1.5	225
98	Facile Synthesis of Sub-20 nm Silver Nanowires through a Bromide-Mediated Polyol Method. ACS Nano, 2016, 10, 7892-7900.	7.3	223
99	A Waterâ€Based Synthesis of Octahedral, Decahedral, and Icosahedral Pd Nanocrystals. Angewandte Chemie - International Edition, 2007, 46, 9279-9282.	7.2	218
100	Gold Nanocages: A Novel Class of Multifunctional Nanomaterials for Theranostic Applications. Advanced Functional Materials, 2010, 20, 3684-3694.	7.8	216
101	A Temperatureâ€Sensitive Drug Release System Based on Phaseâ€Change Materials. Angewandte Chemie - International Edition, 2010, 49, 7904-7908.	7.2	211
102	Fabrication and Characterization of Porous Membranes with Highly Ordered Three-Dimensional Periodic Structures. Chemistry of Materials, 1999, 11, 2827-2836.	3.2	210
103	Atomic Layer-by-Layer Deposition of Platinum on Palladium Octahedra for Enhanced Catalysts toward the Oxygen Reduction Reaction. ACS Nano, 2015, 9, 2635-2647.	7.3	209
104	Oxidative Etching and Its Role in Manipulating the Nucleation and Growth of Noble-Metal Nanocrystals. Chemistry of Materials, 2014, 26, 22-33.	3.2	203
105	Controlling the Assembly of Silver Nanocubes through Selective Functionalization of Their Faces. Advanced Materials, 2008, 20, 2416-2420.	11.1	202
106	Synthesis of silver nanoplates at high yields by slowing down the polyol reduction of silver nitrate with polyacrylamide. Journal of Materials Chemistry, 2007, 17, 2600.	6.7	201
107	Fabrication of Three-Dimensional Macroporous Membranes with Assemblies of Microspheres as Templates. Chemistry of Materials, 1998, 10, 1745-1747.	3.2	195
108	A Self-Assembly Approach to the Formation of Asymmetric Dimers from Monodispersed Spherical Colloids. Journal of the American Chemical Society, 2001, 123, 771-772.	6.6	192

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109	Controlling the Morphology of Rhodium Nanocrystals by Manipulating the Growth Kinetics with a Syringe Pump. Nano Letters, 2011, 11, 898-903.	4.5	190
110	Nucleation and growth mechanisms for Pd-Pt bimetallic nanodendrites and their electrocatalytic properties. Nano Research, 2010, 3, 69-80.	5.8	188
111	Use of Reduction Rate as a Quantitative Knob for Controlling the Twin Structure and Shape of Palladium Nanocrystals. Nano Letters, 2015, 15, 1445-1450.	4.5	180
112	Surface Capping Agents and Their Roles in Shapeâ€Controlled Synthesis of Colloidal Metal Nanocrystals. Angewandte Chemie - International Edition, 2020, 59, 15378-15401.	7.2	180
113	A Hybrid Nanomaterial for the Controlled Generation of Free Radicals and Oxidative Destruction of Hypoxic Cancer Cells. Angewandte Chemie - International Edition, 2017, 56, 8801-8804.	7.2	179
114	Polyol Synthesis of Ultrathin Pd Nanowires via Attachmentâ€Based Growth and Their Enhanced Activity towards Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 131-139.	7.8	173
115	Quantitative Analysis of Dipole and Quadrupole Excitation in the Surface Plasmon Resonance of Metal Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 20233-20240.	1.5	170
116	Successively activatable ultrasensitive probe for imaging tumour acidity and hypoxia. Nature Biomedical Engineering, 2017, 1, .	11.6	167
117	Synthesis and Characterization of Pd@Ptâ€“Ni Coreâ€“Shell Octahedra with High Activity toward Oxygen Reduction. ACS Nano, 2014, 8, 10363-10371.	7.3	165
118	Self-Assembly, Molecular Packing, and Electron Transport in n-Type Polymer Semiconductor Nanobelts. Chemistry of Materials, 2008, 20, 4712-4719.	3.2	159
119	Synthesis of Silver Octahedra with Controlled Sizes and Optical Properties via Seed-Mediated Growth. ACS Nano, 2013, 7, 4586-4594.	7.3	159
120	A Eutectic Mixture of Natural Fatty Acids Can Serve as the Gating Material for Nearâ€Infraredâ€Triggered Drug Release. Advanced Materials, 2017, 29, 1703702.	11.1	159
121	Sonochemical Synthesis of Trigonal Selenium Nanowires. Chemistry of Materials, 2003, 15, 3852-3858.	3.2	156
122	Synthesis and Characterization of Ptâ€“Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. Nano Letters, 2016, 16, 6644-6649.	4.5	150
123	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. ACS Nano, 2016, 10, 9861-9870.	7.3	149
124	Polyol synthesis of Cu2O nanoparticles: use of chloride to promote the formation of a cubic morphology. Journal of Materials Chemistry, 2008, 18, 4069.	6.7	147
125	Facile Synthesis of Iridium Nanocrystals with Well-Controlled Facets Using Seed-Mediated Growth. Journal of the American Chemical Society, 2014, 136, 10878-10881.	6.6	146
126	Nanofiber Scaffolds with Gradients in Mineral Content for Spatial Control of Osteogenesis. ACS Applied Materials & Interfaces, 2014, 6, 2842-2849.	4.0	145

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127	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, 16944-16963.	1.7	143
128	Toward continuous and scalable production of colloidal nanocrystals by switching from batch to droplet reactors. Chemical Society Reviews, 2015, 44, 5806-5820.	18.7	141
129	Phaseâ€Change Materials for Controlled Release and Related Applications. Advanced Materials, 2020, 32, e2000660.	11.1	140
130	Facile Synthesis of Palladium Right Bipyramids and Their Use as Seeds for Overgrowth and as Catalysts for Formic Acid Oxidation. Journal of the American Chemical Society, 2013, 135, 15706-15709.	6.6	139
131	Synthesis, Stability, and Surface Plasmonic Properties of Rhodium Multipods, and Their Use as Substrates for Surface-Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2006, 45, 1288-1292.	7.2	135
132	Pdâ€“Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 7520-7529.	7.8	134
133	A Facile Synthesis of Asymmetric Hybrid Colloidal Particles. Journal of the American Chemical Society, 2009, 131, 1352-1353.	6.6	132
134	Overcoming Hypoxia by Multistage Nanoparticle Delivery System to Inhibit Mitochondrial Respiration for Photodynamic Therapy. Advanced Functional Materials, 2019, 29, 1807294.	7.8	132
135	Excitation enhancement of CdSe quantum dots by single metal nanoparticles. Applied Physics Letters, 2008, 93, .	1.5	130
136	Gold nanocages covered with thermally-responsive polymers for controlled release by high-intensity focused ultrasound. Nanoscale, 2011, 3, 1724.	2.8	130
137	Recent Advances in Nanostrategies Capable of Overcoming Biological Barriers for Tumor Management. Advanced Materials, 2020, 32, e1904337.	11.1	130
138	Fabrication of ultrathin solid electrolyte membranes of Î²-Li₃PS₄ nanoflakes by evaporation-induced self-assembly for all-solid-state batteries. Journal of Materials Chemistry A, 2016, 4, 8091-8096.	5.2	128
139	Ptâ€“Co@Pt Octahedral Nanocrystals: Enhancing Their Activity and Durability toward Oxygen Reduction with an Intermetallic Core and an Ultrathin Shell. Journal of the American Chemical Society, 2021, 143, 8509-8518.	6.6	128
140	Inverse Opal Scaffolds and Their Biomedical Applications. Advanced Materials, 2017, 29, 1701115.	11.1	127
141	Three-Dimensional Scaffolds for Tissue Engineering: The Importance of Uniformity in Pore Size and Structure. Langmuir, 2010, 26, 19001-19006.	1.6	125
142	Hydrothermal Synthesis of Monoclinic VO₂ Micro- and Nanocrystals in One Step and Their Use in Fabricating Inverse Opals. Chemistry of Materials, 2010, 22, 3043-3050.	3.2	122
143	Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 Â°C, and Enhanced Catalytic Activity. Journal of the American Chemical Society, 2019, 141, 7028-7036.	6.6	122
144	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C₂₊ Products in CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 1909-1915.	7.2	122

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145	Fabrication of Microbeads with a Controllable Hollow Interior and Porous Wall Using a Capillary Fluidic Device. Advanced Functional Materials, 2009, 19, 2943-2949.	7.8	118
146	Crystal-phase and surface-structure engineering of ruthenium nanocrystals. Nature Reviews Materials, 2020, 5, 440-459.	23.3	118
147	Shape-Controlled Synthesis of Palladium Nanocrystals: A Mechanistic Understanding of the Evolution from Octahedrons to Tetrahedrons. Nano Letters, 2013, 13, 2276-2281.	4.5	117
148	Catalysis on faceted noble-metal nanocrystals: both shape and size matter. Current Opinion in Chemical Engineering, 2013, 2, 142-150.	3.8	115
149	Shapeâ€Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. Advanced Materials, 2018, 30, e1706312.	11.1	114
150	Continuous and Scalable Production of Well-Controlled Noble-Metal Nanocrystals in Milliliter-Sized Droplet Reactors. Nano Letters, 2014, 14, 6626-6631.	4.5	113
151	Direct fabrication of enzyme-carrying polymer nanofibers by electrospinning. Journal of Materials Chemistry, 2005, 15, 3241.	6.7	111
152	A Comprehensive Study of Formic Acid Oxidation on Palladium Nanocrystals with Different Types of Facets and Twin Defects. ChemCatChem, 2015, 7, 2077-2084.	1.8	111
153	Quantitative Analysis of the Reduction Kinetics Responsible for the One-Pot Synthesis of Pdâ€“Pt Bimetallic Nanocrystals with Different Structures. Journal of the American Chemical Society, 2016, 138, 12263-12270.	6.6	111
154	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
155	Synthesis and characterization of fivefold twinned nanorods and right bipyramids of palladium. Chemical Physics Letters, 2007, 440, 273-278.	1.2	109
156	Template-assisted self-assembly: a versatile approach to complex micro- and nanostructures. Soft Matter, 2009, 5, 1129-1136.	1.2	108
157	Chemical transformation: a powerful route to metal chalcogenide nanowires. Journal of Materials Chemistry, 2006, 16, 3893.	6.7	107
158	Pentaâ€Twinned Copper Nanorods: Facile Synthesis via Seedâ€Mediated Growth and Their Tunable Plasmonic Properties. Advanced Functional Materials, 2016, 26, 1209-1216.	7.8	107
159	Scaling up the Production of Colloidal Nanocrystals: Should We Increase or Decrease the Reaction Volume?. Advanced Materials, 2014, 26, 2600-2606.	11.1	104
160	Ptâ€“Ni octahedral nanocrystals as a class of highly active electrocatalysts toward the hydrogen evolution reaction in an alkaline electrolyte. Journal of Materials Chemistry A, 2016, 4, 12392-12397.	5.2	103
161	Soft Lithographic Approach to the Fabrication of Highly Ordered 2D Arrays of Magnetic Nanoparticles on the Surfaces of Silicon Substrates. Langmuir, 2000, 16, 10369-10375.	1.6	102
162	Encapsulation of a Phaseâ€Change Material in Nanocapsules with a Wellâ€Defined Hole in the Wall for the Controlled Release of Drugs. Angewandte Chemie - International Edition, 2019, 58, 10606-10611.	7.2	102

#	Article	IF	Citations
163	Toward the Synthesis of Sub-15 nm Ag Nanocubes with Sharp Corners and Edges: The Roles of Heterogeneous Nucleation and Surface Capping. Journal of the American Chemical Society, 2016, 138, 3161-3167.	6.6	100
164	Ptâ€Irâ€Pd Trimetallic Nanocages as a Dual Catalyst for Efficient Oxygen Reduction and Evolution Reactions in Acidic Media. Advanced Energy Materials, 2020, 10, 1904114.	10.2	100
165	New insights into the growth mechanism and surface structure of palladium nanocrystals. Nano Research, 2010, 3, 180-188.	5.8	98
166	Metal-Enhanced Near-Infrared Fluorescence by Micropatterned Gold Nanocages. ACS Nano, 2015, 9, 10047-10054.	7.3	96
167	Shape-Controlled Metal Nanocrystals for Heterogeneous Catalysis. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 327-348.	3.3	96
168	⁶⁴Cu-Doped PdCu@Au Tripods: A Multifunctional Nanomaterial for Positron Emission Tomography and Image-Guided Photothermal Cancer Treatment. ACS Nano, 2016, 10, 3121-3131.	7.3	96
169	Polyol Syntheses of Palladium Decahedra and Icosahedra as Pure Samples by Maneuvering the Reaction Kinetics with Additives. ACS Nano, 2014, 8, 7041-7050.	7.3	95
170	Synthesis and application of strawberry-like Fe 3 O 4 -Au nanoparticles as CT-MR dual-modality contrast agents in accurate detection of the progressive liver disease. Biomaterials, 2015, 51, 194-207.	5.7	93
171	Preparation of Uniform Microspheres Using a Simple Fluidic Device and Their Crystallization into Closeâ€Packed Lattices. Small, 2009, 5, 454-459.	5.2	91
172	Functionalization of electrospun ceramic nanofibre membranes with noble-metal nanostructures for catalytic applications. Journal of Materials Chemistry, 2009, 19, 3878.	6.7	91
173	Colloidal Crystals Made of Polystyrene Spheroids:Â Fabrication and Structural/Optical Characterization. Langmuir, 2002, 18, 7722-7727.	1.6	89
174	Microscale Polymer Bottles Corked with a Phaseâ€Change Material for Temperatureâ€Controlled Release. Angewandte Chemie - International Edition, 2013, 52, 10468-10471.	7.2	89
175	Iridiumâ€Based Cubic Nanocages with 1.1â€nmâ€Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. Angewandte Chemie - International Edition, 2019, 58, 7244-7248.	7.2	89
176	Facile Synthesis of Ag Nanorods with No Plasmon Resonance Peak in the Visible Region by Using Pd Decahedra of 16 nm in Size as Seeds. ACS Nano, 2015, 9, 10523-10532.	7.3	88
177	Surface Plasmon Resonance in Bimetallic Coreâ€“Shell Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16836-16845.	1.5	87
178	Toward a Quantitative Understanding of the Reduction Pathways of a Salt Precursor in the Synthesis of Metal Nanocrystals. Nano Letters, 2017, 17, 334-340.	4.5	87
179	Encapsulation of a Phaseâ€Change Material in Nanocapsules with a Wellâ€Defined Hole in the Wall for the Controlled Release of Drugs. Angewandte Chemie, 2019, 131, 10716-10721.	1.6	87
180	Synthesis of Ptâ€“Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. Nano Letters, 2016, 16, 3850-3857.	4.5	86

#	Article	IF	Citations
181	Synthesis of Gold Nanoâ€hexapods with Controllable Arm Lengths and Their Tunable Optical Properties. Angewandte Chemie - International Edition, 2011, 50, 6328-6331.	7.2	84
182	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. Nano Research, 2015, 8, 82-96.	5.8	84
183	Icosahedral nanocrystals of noble metals: Synthesis and applications. Nano Today, 2017, 15, 121-144.	6.2	83
184	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Wellâ€Controlled Surface Structures. Advanced Materials, 2018, 30, e1801956.	11.1	83
185	Integration of Phaseâ€Change Materials with Electrospun Fibers for Promoting Neurite Outgrowth under Controlled Release. Advanced Functional Materials, 2018, 28, 1705563.	7.8	82
186	Design and Fabrication of a Hierarchically Structured Scaffold for Tendonâ€toâ€Bone Repair. Advanced Materials, 2018, 30, e1707306.	11.1	82
187	Microscale Fish Bowls:â€‰ A New Class of Latex Particles with Hollow Interiors and Engineered Porous Structures in Their Surfaces. Langmuir, 2007, 23, 10968-10975.	1.6	81
188	Toward Cost-Effective and Sustainable Use of Precious Metals in Heterogeneous Catalysts. Accounts of Chemical Research, 2017, 50, 450-454.	7.6	81
189	Combination cancer treatment through photothermally controlled release of selenous acid from gold nanocages. Biomaterials, 2018, 178, 517-526.	5.7	79
190	Synthesis of CaO₂ Nanocrystals and Their Spherical Aggregates with Uniform Sizes for Use as a Biodegradable Bacteriostatic Agent. Small, 2019, 15, e1902118.	5.2	77
191	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.	6.6	77
192	In VivoEvaluation of Adipose-Derived Stromal Cells Delivered with a Nanofiber Scaffold for Tendon-to-Bone Repair. Tissue Engineering - Part A, 2015, 21, 2766-2774.	1.6	76
193	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO₂ Nanofibers for the Waterâ€Gas Shift Reaction. Advanced Functional Materials, 2015, 25, 4153-4162.	7.8	75
194	Reduction rate as a quantitative knob for achieving deterministic synthesis of colloidal metal nanocrystals. Chemical Science, 2017, 8, 6730-6749.	3.7	75
195	Pt Nanoparticles Surfactant-Directed Assembled into Colloidal Spheres and used as Substrates in Forming Pt Nanorods and Nanowires. Small, 2006, 2, 1340-1343.	5.2	74
196	Cell alignment induced by anisotropic electrospun fibrous scaffolds alone has limited effect on cardiomyocyte maturation. Stem Cell Research, 2016, 16, 740-750.	0.3	74
197	Enhancing the Mechanical Properties of Electrospun Nanofiber Mats through Controllable Welding at the Cross Points. Macromolecular Rapid Communications, 2017, 38, 1600723.	2.0	73
198	Controlling the Size and Composition of Nanosized Ptâ€“Ni Octahedra to Optimize Their Catalytic Activities toward the Oxygen Reduction Reaction. ChemSusChem, 2014, 7, 1476-1483.	3.6	72

#	Article	IF	Citations
199	In Vitro Mineralization by Preosteoblasts in Poly(<scp>dl</scp>-lactide-co-glycolide) Inverse Opal Scaffolds Reinforced with Hydroxyapatite Nanoparticles. Langmuir, 2010, 26, 12126-12131.	1.6	71
200	One-Pot Synthesis of Penta-twinned Palladium Nanowires and Their Enhanced Electrocatalytic Properties. ACS Applied Materials & Interfaces, 2017, 9, 31203-31212.	4.0	70
201	Using SV119â€Gold Nanocage Conjugates to Eradicate Cancer Stem Cells Through a Combination of Photothermal and Chemo Therapies. Advanced Healthcare Materials, 2014, 3, 1283-1291.	3.9	69
202	Putting gold nanocages to work for optical imaging, controlled release and cancer theranostics. Nanomedicine, 2016, 11, 1715-1728.	1.7	69
203	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
204	Biodegradable porous beads and their potential applications in regenerative medicine. Journal of Materials Chemistry, 2012, 22, 11442.	6.7	66
205	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
206	Facile Synthesis and Characterization of Pd@Ir_{nL} (n = 1â€“4) Coreâ€“Shell Nanocubes for Highly Efficient Oxygen Evolution in Acidic Media. Chemistry of Materials, 2019, 31, 5867-5875.	3.2	65
207	Differentiation of Bone Marrow Stem Cells into Schwann Cells for the Promotion of Neurite Outgrowth on Electrospun Fibers. ACS Applied Materials & Interfaces, 2017, 9, 12299-12310.	4.0	64
208	Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. Angewandte Chemie, 2017, 129, 60-98.	1.6	64
209	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.	3.3	64
210	Photonic band-gap properties of opaline lattices of spherical colloids doped with various concentrations of smaller colloids. Applied Physics Letters, 2001, 78, 3178-3180.	1.5	63
211	Rational design and synthesis of noble-metal nanoframes for catalytic and photonic applications. National Science Review, 2016, 3, 520-533.	4.6	63
212	Assembly of monodispersed spherical colloids into one-dimensional aggregates characterized by well-controlled structures and lengths. Journal of Materials Chemistry, 2001, 11, 987-989.	6.7	59
213	n-Channel polymer thin film transistors with long-term air-stability and durability and their use in complementary inverters. Journal of Materials Chemistry, 2011, 21, 16461.	6.7	59
214	Inverse opal scaffolds for applications in regenerative medicine. Soft Matter, 2013, 9, 9747.	1.2	58
215	Gold Nanoparticles Doped with ¹⁹⁹Au Atoms and Their Use for Targeted Cancer Imaging by SPECT. Advanced Healthcare Materials, 2016, 5, 928-935.	3.9	58
216	Three-Dimensional Objects Consisting of Hierarchically Assembled Nanofibers with Controlled Alignments for Regenerative Medicine. Nano Letters, 2019, 19, 2059-2065.	4.5	56

#	Article	IF	Citations
217	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
218	Bimetallic Janus Nanocrystals: Syntheses and Applications. Advanced Materials, 2022, 34, e2102591.	11.1	55
219	The Science and Art of Carving Metal Nanocrystals. ACS Nano, 2017, 11, 23-27.	7.3	54
220	Toward a Quantitative Understanding of Symmetry Reduction Involved in the Seed-Mediated Growth of Pd Nanocrystals. Journal of the American Chemical Society, 2015, 137, 6643-6652.	6.6	53
221	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
222	Eradication of unresectable liver metastasis through induction of tumour specific energy depletion. Nature Communications, 2019, 10, 3051.	5.8	52
223	X-ray CT guided fault-free photothermal ablation of metastatic lymph nodes with ultrafine HER-2 targeting W18O49 nanoparticles. Biomaterials, 2014, 35, 9155-9166.	5.7	51
224	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. Nano Letters, 2019, 19, 6703-6708.	4.5	51
225	Synthesis of small silver nanocubes in a hydrophobic solvent by introducing oxidative etching with Fe(iii) species. Journal of Materials Chemistry, 2010, 20, 3586.	6.7	50
226	Facile synthesis of Ag@Au coreâ€“sheath nanowires with greatly improved stability against oxidation. Chemical Communications, 2017, 53, 1965-1968.	2.2	50
227	Plasmons: Why Should We Care?. Journal of Chemical Education, 2007, 84, 91.	1.1	49
228	AuI: an alternative and potentially better precursor than AuIII for the synthesis of Au nanostructures. Journal of Materials Chemistry, 2010, 20, 2290.	6.7	49
229	Platinum Cubic Nanoframes with Enhanced Catalytic Activity and Durability Toward Oxygen Reduction. ChemSusChem, 2016, 9, 2855-2861.	3.6	49
230	A Droplet-Reactor System Capable of Automation for the Continuous and Scalable Production of Noble-Metal Nanocrystals. Nano Letters, 2018, 18, 3879-3884.	4.5	48
231	Metalâ^'Polymer Hybrid Colloidal Particles with an Eccentric Structure. Langmuir, 2009, 25, 13880-13887.	1.6	47
232	Fabrication of Subâ€Micrometerâ€Thick Solid Electrolyte Membranes of Î²â€Li₃PS₄ via Tiled Assembly of Nanoscale, Plateâ€Like Building Blocks. Advanced Energy Materials, 2018, 8, 1800014.	10.2	47
233	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. ACS Nano, 2019, 13, 7241-7251.	7.3	47
234	Swarming towards the target. Nature Materials, 2011, 10, 482-483.	13.3	46

#	Article	IF	Citations
235	Gold nanocages for effective photothermal conversion and related applications. Chemical Science, 2020, 11, 12955-12973.	3.7	46
236	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
237	Fabrication of three-dimensional photonic crystals for use in the spectral region from ultraviolet to near-infrared. Journal of Lightwave Technology, 1999, 17, 1956-1962.	2.7	45
238	SV119-gold nanocage conjugates: a new platform for targeting cancer cellsvia sigma-2 receptors. Nanoscale, 2012, 4, 421-424.	2.8	45
239	Seed-Mediated Growth of Au Nanospheres into Hexagonal Stars and the Emergence of a Hexagonal Close-Packed Phase. Nano Letters, 2019, 19, 3115-3121.	4.5	44
240	Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres. Accounts of Chemical Research, 2019, 52, 3475-3487.	7.6	44
241	Maximizing the Catalytic Performance of Pd@Au_xPd_{1â^'x} Nanocubes in H₂O₂ Production by Reducing Shell Thickness to Increase Compositional Stability. Angewandte Chemie - International Edition, 2021, 60, 19643-19647.	7.2	44
242	Thermal Stability of Metal Nanocrystals: An Investigation of the Surface and Bulk Reconstructions of Pd Concave Icosahedra. Nano Letters, 2017, 17, 3655-3661.	4.5	43
243	General Method for Generating Circular Gradients of Active Proteins on Nanofiber Scaffolds Sought for Wound Closure and Related Applications. ACS Applied Materials & Interfaces, 2018, 10, 8536-8545.	4.0	43
244	Biomimetics: reconstitution of low-density lipoprotein for targeted drug delivery and related theranostic applications. Chemical Society Reviews, 2017, 46, 7668-7682.	18.7	42
245	Perspective: Aligned arrays of electrospun nanofibers for directing cell migration. APL Materials, 2018, 6, .	2.2	42
246	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. Nano Letters, 2018, 18, 7004-7013.	4.5	42
247	Solution-Phase Synthesis of PdH_{0.706} Nanocubes with Enhanced Stability and Activity toward Formic Acid Oxidation. Journal of the American Chemical Society, 2022, 144, 2556-2568.	6.6	42
248	Colloidal building blocks with potential for magnetically configurable photonic crystals. Soft Matter, 2007, 3, 1215.	1.2	41
249	Adding new functions to organic semiconductor nanowires by assembling metal nanoparticles onto their surfaces. Journal of Materials Chemistry, 2008, 18, 5395.	6.7	40
250	Controlling the Pore Sizes and Related Properties of Inverse Opal Scaffolds for Tissue Engineering Applications. Macromolecular Rapid Communications, 2013, 34, 485-491.	2.0	40
251	Reconstitution of Lowâ€Density Lipoproteins with Fatty Acids for the Targeted Delivery of Drugs into Cancer Cells. Angewandte Chemie - International Edition, 2017, 56, 10399-10402.	7.2	39
252	Photothermal Welding, Melting, and Patterned Expansion of Nonwoven Mats of Polymer Nanofibers for Biomedical and Printing Applications. Angewandte Chemie - International Edition, 2019, 58, 16416-16421.	7.2	39

#	Article	IF	Citations
253	Nearâ€Infraredâ€Triggered Release of Ca²⁺ Ions for Potential Application in Combination Cancer Therapy. Advanced Healthcare Materials, 2019, 8, e1801113.	3.9	39
254	X-ray CT and pneumonia inhibition properties of goldâ€“silver nanoparticles for targeting MRSA induced pneumonia. Biomaterials, 2014, 35, 7032-7041.	5.7	38
255	The effect of adipose-derived stem cell sheets and CTGF on early flexor tendon healing in a canine model. Scientific Reports, 2018, 8, 11078.	1.6	37
256	Engraving the Surface of Electrospun Microfibers with Nanoscale Grooves Promotes the Outgrowth of Neurites and the Migration of Schwann Cells. Angewandte Chemie - International Edition, 2020, 59, 15626-15632.	7.2	37
257	Silica-coated dimers of silver nanospheres as surface-enhanced Raman scattering tags for imaging cancer cells. Interface Focus, 2013, 3, 20120092.	1.5	36
258	Aqueousâ€Phase Synthesis of Singleâ€Crystal Pd Seeds 3â€…nm in Diameter and Their Use for the Growth of Pd Nanocrystals with Different Shapes. Chemistry - A European Journal, 2013, 19, 5127-5133.	1.7	36
259	Twin-Directed Deposition of Pt on Pd Icosahedral Nanocrystals for Catalysts with Enhanced Activity and Durability toward Oxygen Reduction. Nano Letters, 2021, 21, 2248-2254.	4.5	36
260	Formation of patterned microstructures of polycrystalline ceramics from precursor polymers using micromolding in capillaries. Journal of Materials Research, 1999, 14, 3995-4003.	1.2	35
261	Hierarchical nanostructures of K-birnessite nanoplates on anatase nanofibers and their application for decoloration of dye solution. Journal of Materials Chemistry, 2010, 20, 3157.	6.7	35
262	Fabrication of Au@Ag coreâ€“shell NPs as enhanced CT contrast agents with broad antibacterial properties. Colloids and Surfaces B: Biointerfaces, 2014, 117, 29-35.	2.5	35
263	Coating Ptâ€“Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. ChemSusChem, 2016, 9, 2209-2215.	3.6	35
264	Long-term monitoring of tumor-related autophagy inÂvivo by Fe3O4NOÂ· nanoparticles. Biomaterials, 2018, 179, 186-198.	5.7	35
265	Augmenting Tendonâ€toâ€Bone Repair with Functionally Graded Scaffolds. Advanced Healthcare Materials, 2021, 10, e2002269.	3.9	34
266	Formation of Embryoid Bodies with Controlled Sizes and Maintained Pluripotency in Threeâ€Dimensional Inverse Opal Scaffolds. Advanced Functional Materials, 2012, 22, 121-129.	7.8	33
267	Killing cancer cells by rupturing their lysosomes. Nature Nanotechnology, 2020, 15, 252-253.	15.6	33
268	Moving Electrospun Nanofibers and Bioprinted Scaffolds toward Translational Applications. Advanced Healthcare Materials, 2020, 9, e1901761.	3.9	33
269	Janus Nanocages of Platinumâ€Group Metals and Their Use as Effective Dualâ€Electrocatalysts. Angewandte Chemie - International Edition, 2021, 60, 10384-10392.	7.2	33
270	Introduction: Advanced Materials and Methods for Catalysis and Electrocatalysis by Transition Metals. Chemical Reviews, 2021, 121, 563-566.	23.0	33

#	Article	IF	Citations
271	Onâ€Chip Screening of Experimental Conditions for the Synthesis of Nobleâ€Metal Nanostructures with Different Morphologies. Small, 2011, 7, 3308-3316.	5.2	32
272	Anti-RhoJ antibody functionalized Au@I nanoparticles as CT-guided tumor vessel-targeting radiosensitizers in patient-derived tumor xenograft model. Biomaterials, 2017, 141, 1-12.	5.7	32
273	Promoting the Outgrowth of Neurites on Electrospun Microfibers by Functionalization with Electrosprayed Microparticles of Fatty Acids. Angewandte Chemie - International Edition, 2019, 58, 3948-3951.	7.2	32
274	A Facile and General Method for the Encapsulation of Different Types of Imaging Contrast Agents Within Micrometerâ€Sized Polymer Beads. Advanced Functional Materials, 2012, 22, 764-770.	7.8	31
275	Simple and accurate methods for quantifying deformation, disruption, and development in biological tissues. Journal of the Royal Society Interface, 2014, 11, 20140685.	1.5	31
276	Polydopamine Nanobottles with Photothermal Capability for Controlled Release and Related Applications. Advanced Materials, 2021, 33, e2104729.	11.1	31
277	Fiveâ€Fold Twinned Pd Nanorods and Their Use as Templates for the Synthesis of Bimetallic or Hollow Nanostructures. ChemNanoMat, 2015, 1, 246-252.	1.5	30
278	Inverse Opal Scaffolds with Gradations in Mineral Content for Spatial Control of Osteogenesis. Advanced Materials, 2018, 30, e1706706.	11.1	30
279	Electrospun Fiber Mesh for High-Resolution Measurements of Oxygen Tension in Cranial Bone Defect Repair. ACS Applied Materials & Interfaces, 2019, 11, 33548-33558.	4.0	30
280	Ultra-sensitive diagnosis of orthotopic patient derived hepatocellular carcinoma by Fe@graphene nanoparticles in MRI. RSC Advances, 2016, 6, 113919-113923.	1.7	29
281	Continuous processing of phase-change materials into uniform nanoparticles for near-infrared-triggered drug release. Nanoscale, 2018, 10, 22312-22318.	2.8	29
282	Optimization of elastomeric phase masks for near-field photolithography. Applied Physics Letters, 2001, 78, 2431-2433.	1.5	28
283	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. ChemCatChem, 2012, 4, 1668-1674.	1.8	28
284	Seed-Mediated Synthesis of Pd Nanocrystals: The Effect of Surface Capping on the Heterogeneous Nucleation and Growth. Journal of Physical Chemistry C, 2016, 120, 11754-11761.	1.5	28
285	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
286	Swellingâ€Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. Angewandte Chemie - International Edition, 2021, 60, 12980-12984.	7.2	28
287	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
288	Aberration Corrected Electron Microscopy Study of Bimetallic Pdâ€“Pt Nanocrystal: Coreâ€“Shell Cubic and Coreâ€“Frame Concave Structures. Journal of Physical Chemistry C, 2014, 118, 28876-28882.	1.5	26

#	Article	IF	Citations
289	Controlling the Growth of Au on Icosahedral Seeds of Pd by Manipulating the Reduction Kinetics. Journal of Physical Chemistry C, 2016, 120, 20768-20774.	1.5	26
290	Facile Synthesis of Rhodium Icosahedra with Controlled Sizes up to 12â€…nm. ChemNanoMat, 2016, 2, 61-66.	1.5	26
291	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
292	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.	1.5	25
293	Tunability of collagen matrix mechanical properties via multiple modes of mineralization. Interface Focus, 2016, 6, 20150070.	1.5	24
294	How to Remove the Capping Agent from Pd Nanocubes without Destructing Their Surface Structure for the Maximization of Catalytic Activity?. Angewandte Chemie - International Edition, 2020, 59, 19129-19135.	7.2	24
295	Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. Angewandte Chemie - International Edition, 2016, 55, 13828-13832.	7.2	23
296	Surgical Sutures with Porous Sheaths for the Sustained Release of Growth Factors. Advanced Materials, 2016, 28, 4620-4624.	11.1	23
297	A general strategy for generating gradients of bioactive proteins on electrospun nanofiber mats by masking with bovine serum albumin. Journal of Materials Chemistry B, 2017, 5, 5580-5587.	2.9	23
298	Physical Transformations of Noble-Metal Nanocrystals upon Thermal Activation. Accounts of Chemical Research, 2021, 54, 1-10.	7.6	23
299	Oxidative Etching of Pd Decahedral Nanocrystals with a Penta-twinned Structure and Its Impact on Their Growth Behavior. Chemistry of Materials, 2017, 29, 5394-5400.	3.2	22
300	Waterâ€Based Synthesis of Subâ€10 nm Pt Octahedra and Their Performance towards the Oxygen Reduction Reaction. ChemNanoMat, 2017, 3, 879-884.	1.5	22
301	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.	2.7	22
302	Nanofiberâ€Based Multiâ€Tubular Conduits with a Honeycomb Structure for Potential Application in Peripheral Nerve Repair. Macromolecular Bioscience, 2018, 18, e1800090.	2.1	22
303	Epitaxial growth of gold on silver nanoplates for imaging-guided photothermal therapy. Materials Science and Engineering C, 2019, 105, 110023.	3.8	22
304	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.	2.4	22
305	Heterogeneous Interfacial Properties of Inkâ€Jetâ€Printed Silver Nanoparticulate Electrode and Organic Semiconductor. Advanced Materials, 2008, 20, 3084-3089.	11.1	21
306	Surfaceâ€Functionalized Electrospun Titania Nanofibers for the Scavenging and Recycling of Precious Metal Ions. ChemSusChem, 2016, 9, 2912-2916.	3.6	21

#	Article	IF	Citations
307	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. Angewandte Chemie - International Edition, 2017, 56, 8647-8651.	7.2	21
308	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
309	Synthesis and application of RuSe₂_{+ Î´}nanotubes as a methanol tolerant electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry, 2009, 19, 1024-1030.	6.7	20
310	Kinetically controlled way to create highly uniform mono-dispersed ZnO sub-microrods for electronics. Journal of Materials Chemistry, 2012, 22, 20719.	6.7	20
311	On the critical role of Rayleigh scattering in single-molecule surface-enhanced Raman scattering via a plasmonic nanogap. Nanoscale, 2016, 8, 15730-15736.	2.8	20
312	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
313	Nanobottles for Controlled Release and Drug Delivery. Advanced Healthcare Materials, 2021, 10, 2000587.	3.9	20
314	Colloidal Metal Nanocrystals with Metastable Crystal Structures. Angewandte Chemie - International Edition, 2021, 60, 12192-12203.	7.2	20
315	Growth and patterning of pt nanowires on silicon substrates. Nano Research, 2008, 1, 129-137.	5.8	19
316	Palladium@Platinum Concave Nanocubes with Enhanced Catalytic Activity toward Oxygen Reduction. ChemCatChem, 2016, 8, 3082-3088.	1.8	19
317	A Hybrid Nanomaterial for the Controlled Generation of Free Radicals and Oxidative Destruction of Hypoxic Cancer Cells. Angewandte Chemie, 2017, 129, 8927-8930.	1.6	19
318	Understanding the Stability of Ptâ€Based Nanocages under Thermal Stress Using In Situ Electron Microscopy. ChemNanoMat, 2018, 4, 112-117.	1.5	19
319	Multilayered supermolecular structures self-assembled from polyelectrolytes and cyclodextrin hostâ€“guest complexes. Journal of Materials Chemistry, 2000, 10, 603-605.	6.7	18
320	Size and Shapeâ€controlled Pd Nanocrystals on ZnO and SiO₂: When the Nature of the Support Determines the Active Phase. ChemCatChem, 2014, 6, 767-771.	1.8	18
321	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. ChemCatChem, 2016, 8, 1658-1664.	1.8	18
322	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.	1.8	18
323	Synthesis of Palladium Nanoscale Octahedra through a Oneâ€Pot, Dualâ€Reductant Route and Kinetic Analysis. Chemistry - A European Journal, 2018, 24, 6133-6139.	1.7	18
324	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

#	Article	IF	Citations
325	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. Nature Communications, 2021, 12, 3215.	5.8	18
326	Facile Synthesis of Palladiumâ€Based Nanocrystals with Different Crystal Phases and a Comparison of Their Catalytic Properties. Advanced Materials, 2021, 33, e2103801.	11.1	18
327	Seed-Mediated Growth of Gold Nanocrystals: Changes to the Crystallinity or Morphology as Induced by the Treatment of Seeds with a Sulfur Species. Journal of Physical Chemistry B, 2014, 118, 14132-14139.	1.2	17
328	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. Chemical Communications, 2016, 52, 12594-12597.	2.2	17
329	Novel Acid Catalysts from Wasteâ€Tireâ€Derived Carbon: Application in Wasteâ€“toâ€Biofuel Conversion. ChemistrySelect, 2017, 2, 4975-4982.	0.7	17
330	Melanocortin 1 Receptor Targeted Imaging of Melanoma With Gold Nanocages and Positron Emission Tomography. Molecular Imaging, 2018, 17, 153601211877582.	0.7	17
331	Controlling the Release of Neurotrophinâ€3 and Chondroitinase ABC Enhances the Efficacy of Nerve Guidance Conduits. Advanced Healthcare Materials, 2020, 9, e2000200.	3.9	17
332	Spatiotemporally Controlling the Release of Biological Effectors Enhances Their Effects on Cell Migration and Neurite Outgrowth. Small Methods, 2020, 4, 2000125.	4.6	17
333	Targeted Delivery of Antiâ€miRâ€712 by VCAM1â€Binding Au Nanospheres for Atherosclerosis Therapy. ChemNanoMat, 2016, 2, 400-406.	1.5	16
334	Facile Synthesis of Ptâ€“Pd Alloy Nanocages and Pt Nanorings by Templating with Pd Nanoplates. ChemNanoMat, 2016, 2, 1086-1091.	1.5	16
335	Facile Synthesis of ⁶⁴Cuâ€Doped Au Nanocages for Positron Emission Tomography Imaging. ChemNanoMat, 2017, 3, 44-50.	1.5	16
336	Radiolabeling of Gold Nanocages for Potential Applications in Tracking, Diagnosis, and Imageâ€Guided Therapy. Advanced Healthcare Materials, 2021, 10, e2002031.	3.9	16
337	Dimerization of Colloidal Particles through Controlled Aggregation for Enhanced Properties and Applications. Chemistry - an Asian Journal, 2016, 11, 2341-2351.	1.7	15
338	Anti-Fas Antibody Conjugated Nanoparticles Enhancing the Antitumor Effect of Camptothecin by Activating the Fasâ€“FasL Apoptotic Pathway. ACS Applied Materials & Interfaces, 2016, 8, 29950-29959.	4.0	15
339	Tissue Regeneration: Design and Fabrication of a Hierarchically Structured Scaffold for Tendonâ€toâ€Bone Repair (Adv. Mater. 16/2018). Advanced Materials, 2018, 30, 1870116.	11.1	15
340	Effect of connective tissue growth factor delivered via porous sutures on the proliferative stage of intrasynovial tendon repair. Journal of Orthopaedic Research, 2018, 36, 2052-2063.	1.2	15
341	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. ChemNanoMat, 2018, 4, 66-70.	1.5	15
342	A Photochemical, Room-Temperature, and Aqueous Route to the Synthesis of Pd Nanocubes Enriched with Atomic Steps and Terraces on the Side Faces. Chemistry of Materials, 2017, 29, 4563-4571.	3.2	14

#	Article	IF	Citations
343	Toughening of fibrous scaffolds by mobile mineral deposits. Acta Biomaterialia, 2017, 58, 492-501.	4.1	14
344	Seeing Through the Surface: Non-invasive Characterization of Biomaterialâ€“Tissue Interactions Using Photoacoustic Microscopy. Annals of Biomedical Engineering, 2016, 44, 649-666.	1.3	13
345	Facile synthesis of gold trisoctahedral nanocrystals with controllable sizes and dihedral angles. Nanoscale, 2018, 10, 11034-11042.	2.8	13
346	Pd@Rh coreâ€“shell nanocrystals with well-defined facets and their enhanced catalytic performance towards CO oxidation. Nanoscale Horizons, 2019, 4, 1232-1238.	4.1	13
347	Transforming Nanofiber Mats into Hierarchical Scaffolds with Graded Changes in Porosity and/or Nanofiber Alignment. Macromolecular Rapid Communications, 2020, 41, 1900579.	2.0	13
348	Ptâ€“Co truncated octahedral nanocrystals: a class of highly active and durable catalysts toward oxygen reduction. Nanoscale, 2020, 12, 11718-11727.	2.8	13
349	MACROPOROUS MATERIALS CONTAINING THREE-DIMENSIONALLY PERIODIC STRUCTURES. , 2003, , 69-100.		12
350	Controlling the Deposition of Pd on Au Nanocages: Outer Surface Only versus Both Outer and Inner Surfaces. Nano Letters, 2017, 17, 5682-5687.	4.5	12
351	Facile synthesis of Pd concave nanocubes: From kinetics to mechanistic understanding and rationally designed protocol. Nano Research, 2018, 11, 3122-3131.	5.8	12
352	Oneâ€Pot Synthesis of Pd@Pt_{nL} 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
353	Polyol Synthesis of Pd Icosahedral Nanocrystals: Insights into the Growth Mechanism and Size Control. Chemistry of Materials, 2022, 34, 5065-5073.	3.2	12
354	Ag-Ag0.08V2O5Â·nH2O composite films as host materials for Li+intercalation. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R79-R81.	0.8	11
355	Are We Entering the Nano Era?. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	7.2	11
356	Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. Angewandte Chemie, 2016, 128, 14032-14036.	1.6	11
357	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
358	A Quantitative Analysis of the Reduction Kinetics Involved in the Synthesis of Au@Pd Concave Nanocubes. Chemistry - A European Journal, 2019, 25, 16397-16404.	1.7	11
359	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
360	Fabrication of cell patches using biodegradable scaffolds with a hexagonal array of interconnected pores (SHAIPs). Polymer, 2014, 55, 445-452.	1.8	10

#	Article	IF	Citations
361	Using Reduction Kinetics to Control and Predict the Outcome of a Colloidal Synthesis of Noble-Metal Nanocrystals. Inorganic Chemistry, 2021, 60, 4182-4197.	1.9	10
362	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.	1.2	9
363	Facile Synthesis of Silver Icosahedral Nanocrystals with Uniform and Controllable Sizes. ChemNanoMat, 2018, 4, 1071-1077.	1.5	9
364	Direct Visualization and Semiâ€Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. Angewandte Chemie - International Edition, 2019, 58, 17671-17674.	7.2	9
365	A Mechanistic Study of the Multiple Roles of Oleic Acid in the Oilâ€Phase Synthesis of Pt Nanocrystals. Chemistry - A European Journal, 2020, 26, 15636-15642.	1.7	9
366	Aqueous Synthesis of Pdâ€“M (Mâ€‰=â€‰Pd, Pt, and Au) Decahedra with Concave Facets for Catalytic Applications. Topics in Catalysis, 2020, 63, 664-672.	1.3	9
367	Pdâ€“Au Asymmetric Nanopyramids: Lateral vs Vertical Growth of Au on Pd Decahedral Seeds. Chemistry of Materials, 2021, 33, 5391-5400.	3.2	9
368	Macroporous Membranes with Highly Ordered and Three-Dimensionally Interconnected Spherical Pores. , 1998, 10, 1045.		9
369	Oriented Attachment: A Unique Mechanism for the Colloidal Synthesis of Metal Nanostructures. ChemNanoMat, 2022, 8, .	1.5	9
370	Doxorubicin loaded chitosanâ€“ZnO hybrid nanospheres combining cell imaging and cancer therapy. RSC Advances, 2015, 5, 60549-60551.	1.7	8
371	Seedâ€Mediated Growth of Colloidal Metal Nanocrystals: Scaling up the Production through Geometric and Stoichiometric Analyses. ChemNanoMat, 2016, 2, 1033-1039.	1.5	8
372	Facile Synthesis of Ag@Pd_{nL} Icosahedral Nanocrystals as a Class of Costâ€Effective Electrocatalysts toward Formic Acid Oxidation. ChemCatChem, 2020, 12, 5156-5163.	1.8	8
373	Biomimetic Scaffolds with a Mineral Gradient and Funnelâ€Shaped Channels for Spatially Controllable Osteogenesis. Advanced Healthcare Materials, 2022, 11, e2100828.	3.9	8
374	Pencil-like Ag Nanorods Asymmetrically Capped by Pd. Chemistry of Materials, 2020, 32, 5361-5367.	3.2	8
375	Accelerating Cell Migration along Radially Aligned Nanofibers through the Addition of Electrosprayed Nanoparticles in a Radial Density Gradient. Particle and Particle Systems Characterization, 2022, 39, .	1.2	8
376	Fabrication and Analysis of Photonic Crystals. Journal of Chemical Education, 2007, 84, 1824.	1.1	7
377	Nanofibers in Regenerative Medicine: Electrospun Nanofibers for Regenerative Medicine (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.9	7
378	Separating Growth from Nucleation for Facile Control over the Size and Shape of Palladium Nanocrystals. Chemistry - A European Journal, 2020, 26, 13890-13895.	1.7	7

#	Article	IF	Citations
379	Phase-Controlled Synthesis of Ru Nanocrystals via Template-Directed Growth: Surface Energy versus Bulk Energy. Nano Letters, 2022, 22, 3591-3597.	4.5	7
380	Synthesis of Gold Nanoshells and Their Use in Sensing Applications. Materials Research Society Symposia Proceedings, 2003, 776, 271.	0.1	6
381	Micropatterned Polymer Nanorod Forests and Their Use for Dual Drug Loading and Regulation of Cell Adhesion. ACS Applied Materials & Interfaces, 2016, 8, 34194-34197.	4.0	6
382	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. Angewandte Chemie, 2017, 129, 8773-8777.	1.6	6
383	Reconstitution of Lowâ€Density Lipoproteins with Fatty Acids for the Targeted Delivery of Drugs into Cancer Cells. Angewandte Chemie, 2017, 129, 10535-10538.	1.6	6
384	In Situ Growth of Ptâ€“Co Nanocrystals on Different Types of Carbon Supports and Their Electrochemical Performance toward Oxygen Reduction. ACS Applied Materials & Interfaces, 2021, 13, 51988-51996.	4.0	6
385	Hydroquinone-Based Synthesis of Pd Nanostructures and the Interplay of Surface Capping, Reduction Kinetics, Attachment, Diffusion, and Fusion. Chemistry of Materials, 2021, 33, 8430-8439.	3.2	6
386	Promoting the Outgrowth of Neurites on Electrospun Microfibers by Functionalization with Electrosprayed Microparticles of Fatty Acids. Angewandte Chemie, 2019, 131, 3988-3991.	1.6	5
387	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
388	Colloidal Nanospheres of Amorphous Selenium: Facile Synthesis, Size Control, and Optical Properties. ChemNanoMat, 2021, 7, 620-625.	1.5	5
389	Improving the Purity and Uniformity of Pd and Pt Nanocrystals by Decoupling Growth from Nucleation in a Flow Reactor. Chemistry of Materials, 2021, 33, 3791-3801.	3.2	5
390	Decomposition Kinetics of H₂O₂ on Pd Nanocrystals with Different Shapes and Surface Strains. ChemCatChem, 2022, 14, .	1.8	5
391	Colloidal Crystals: Recent Developments and Niche Applications. , 0, , 284-316.		4
392	Uniaxial Alignment of Electrospun Nanofibers. ACS Symposium Series, 2006, , 319-329.	0.5	4
393	Quantifying the Subâ€Cellular Distributions of Gold Nanospheres Taken Up by Cells through Stepwise, Siteâ€Selective Etching. Chemistry - A European Journal, 2018, 24, 8513-8518.	1.7	4
394	Janus Nanocages of Platinumâ€Group Metals and Their Use as Effective Dualâ€Electrocatalysts. Angewandte Chemie, 2021, 133, 10472-10480.	1.6	4
395	Mechanistic Study of Seed-Mediated Growth of Gold Rhombic Dodecahedra. Journal of Physical Chemistry C, 2021, 125, 27394-27402.	1.5	4
396	A Soft Lithographic Approach to the Fabrication of Single Crystalline Silicon Nanostructures with Well-Defined Dimensions and Shapes. Materials Research Society Symposia Proceedings, 2000, 636, 421.	0.1	3

#	Article	IF	Citations
397	Powder Diffraction Simulated by a Polycrystalline Film of Spherical Colloids. Journal of Chemical Education, 2006, 83, 1638.	1.1	3
398	Facile Synthesis of BaTiO₃ Nanocubes with the Use of Anatase TiO₂ Nanorods as a Precursor to Titanium Hydroxide. ChemNanoMat, 2016, 2, 873-878.	1.5	3
399	Facile synthesis of Ptâ€“Ag octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. Journal of Materials Research, 2018, 33, 3891-3897.	1.2	3
400	Facile Synthesis of Pdâ˜Cu Bimetallic Twin Nanocubes and a Mechanistic Understanding of the Shape Evolution. ChemNanoMat, 2020, 6, 386-391.	1.5	3
401	A New Catalytic System with Balanced Activity and Durability toward Oxygen Reduction. ChemCatChem, 2020, 12, 4817-4824.	1.8	3
402	Facile Synthesis of Platinum Right Bipyramids by Separating and Controlling the Nucleation Step in a Continuous Flow System. Chemistry - A European Journal, 2021, 27, 13855-13863.	1.7	3
403	Self-Assembly of Meso- and Nanoparticles into 3d Ordered Arrays and its Applications. Materials Research Society Symposia Proceedings, 1999, 576, 149.	0.1	2
404	Concluding Remarks: Anisotropy: the good, the â€œbadâ€•and â€¦. Faraday Discussions, 2016, 191, 597-604.	1.6	2
405	How to Remove the Capping Agent from Pd Nanocubes without Destructing Their Surface Structure for the Maximization of Catalytic Activity?. Angewandte Chemie, 2020, 132, 19291-19297.	1.6	2
406	Colloidal Metal Nanocrystals with Metastable Crystal Structures. Angewandte Chemie, 2021, 133, 12300-12311.	1.6	2
407	Elucidating the surface compositions of Pd@Pt_{nL} coreâ€“shell nanocrystals through catalytic reactions and spectroscopy probes. Nanoscale, 2021, 13, 18498-18506.	2.8	2
408	Improving biomedical imaging with gold nanocages. SPIE Newsroom, 2008, , 1200705.1135.	0.1	2
409	Using computational methods to design patient-specific electrospun cardiac patches for pediatric heart failure. Biomaterials, 2022, 283, 121421.	5.7	2
410	Fabrication of Micro- and Nanostructures with Monodispersed Colloidal Spheres as the Active Components. Materials Research Society Symposia Proceedings, 2000, 636, 9151.	0.1	1
411	Editorial: FÃngt das Nano-Zeitalter an?. Angewandte Chemie, 2014, 126, 12466-12469.	1.6	1
412	Crystallization of Mesoscale Particles over Large Areas. , 1998, 10, 1028.		1
413	Crystallization of Mesoscale Particles over Large Areas. , 1998, 10, 1028.		1
414	ELECTROSPINNING NANOFIBERS WITH CONTROLLED STRUCTURES AND COMPLEX ARCHITECTURES. Annual Review of Nano Research, 2006, , 189-214.	0.2	1

#	Article	IF	Citations
415	The use of connective tissue growth factor mimics for flexor tendon repair. Journal of Orthopaedic Research, 2022, 40, 2754-2762.	1.2	1
416	A Tribute to Professor Nicholas Peppas. Advanced Healthcare Materials, 2022, 11, e2200412.	3.9	1
417	A Tribute to Professor Buddy Ratner. Advanced Healthcare Materials, 2022, 11, e2200701.	3.9	1
418	Synthesis and Characterization of Ptâ€Ag Icosahedral Nanocages with Enhanced Catalytic Activity toward Oxygen Reduction. ChemNanoMat, 0, , .	1.5	1
419	Fabrication and Characterization of 2D and 3D Ordered Arrays of Nanoparticles. Materials Research Society Symposia Proceedings, 1999, 571, 115.	0.1	0
420	Synthesis, Characterization, and Utilization of Single Crystalline Nanoparticles of Silver. Materials Research Society Symposia Proceedings, 1999, 581, 83.	0.1	0
421	Chalcogen Nanowires: Synthesis and Properties. Materials Research Society Symposia Proceedings, 2003, 776, 621.	0.1	0
422	Bioconjugated Au/Ag nanocages as a novel optical imaging contrast and thermal therapeutic agent. , 2005, , .		0
423	Nanomaterials Research with a Chinese Flavor. Advanced Functional Materials, 2010, 20, 3628-3629.	7.8	0
424	Engineering the optical properties of gold nanocages for biomedical applications. , 2010, , .		0
425	Inside Cover: Strain-Controlled Release of Molecules from Arrayed Microcapsules Supported on an Elastomer Substrate (Angew. Chem. Int. Ed. 3/2011). Angewandte Chemie - International Edition, 2011, 50, 556-556.	7.2	0
426	Inside Cover: Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties (Angew. Chem. Int. Ed. 52/2011). Angewandte Chemie - International Edition, 2011, 50, 12368-12368.	7.2	0
427	RÃ¼cktitelbild: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (Angew. Chem. 10/2012). Angewandte Chemie, 2012, 124, 2562-2562.	1.6	0
428	Innentitelbild: Edelmetall-Nanokristalle mit konkaven OberflÃchen: Synthese und Anwendungen (Angew. Chem. 31/2012). Angewandte Chemie, 2012, 124, 7722-7722.	1.6	0
429	Back Cover: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics (Angew. Chem. Int. Ed. 10/2012). Angewandte Chemie - International Edition, 2012, 51, 2512-2512.	7.2	0
430	Monolayers: Quick, Large-Area Assembly of a Single-Crystal Monolayer of Spherical Particles by Unidirectional Rubbing (Adv. Mater. 27/2014). Advanced Materials, 2014, 26, 4632-4632.	11.1	0
431	In-Situ Studies of Thermal Stability of Coreâ€“Frame Cubic Pdâ€“Rh Nanocrystals at Elevated Temperatures. Microscopy and Microanalysis, 2014, 20, 1632-1633.	0.2	0
432	Titelbild: FÃngt das Nano-Zeitalter an? (Angew. Chem. 46/2014). Angewandte Chemie, 2014, 126, 12463-12463.	1.6	0

#	Article	IF	Citations
433	X-ray CT detection and photo ablation of metastatic positive lymph node with HER-2 targeting W 18 O 49 platform. Journal of Controlled Release, 2015, 213, e139.	4.8	0
434	Interstitial diffuse radiance spectroscopy of gold nanocages and nanorods in bulk muscle tissues. International Journal of Nanomedicine, 2015, 10, 1307.	3.3	0
435	Detecting Localized Variation of Chemistry via Atomic-Resolution Secondary Electron Imaging. Microscopy and Microanalysis, 2015, 21, 1265-1266.	0.2	0
436	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. ChemCatChem, 2016, 8, 1602-1602.	1.8	0
437	RÃ¼cktitelbild: Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages (Angew. Chem. 44/2016). Angewandte Chemie, 2016, 128, 14104-14104.	1.6	0
438	Facile Synthesis of Pd@Pt3- 4L Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. ChemCatChem, 2017, 9, 376-376.	1.8	0
439	RÃ¼cktitelbild: A Hybrid Nanomaterial for the Controlled Generation of Free Radicals and Oxidative Destruction of Hypoxic Cancer Cells (Angew. Chem. 30/2017). Angewandte Chemie, 2017, 129, 9030-9030.	1.6	0
440	Aberration-Corrected STEM Study of Shape Controlled Metallic Core-Shell Nanoparticles for Catalytic Applications. Microscopy and Microanalysis, 2017, 23, 1852-1853.	0.2	0
441	Frontispiece: Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. Chemistry - A European Journal, 2018, 24, .	1.7	0
442	Direct Visualization and Semiâ€Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. Angewandte Chemie, 2019, 131, 17835-17838.	1.6	0
443	A Tribute to Professor George M. Whitesides. Advanced Healthcare Materials, 2021, 10, e2100017.	3.9	0
444	Biomaterials Research at the Georgia Institute of Technology. Advanced Healthcare Materials, 2021, 10, e2101282.	3.9	0
445	Geometry and surface state effects on the mechanical response of Au nanostructures. International Journal of Materials Research, 2022, 95, 416-424.	0.1	0
446	Versatile Protein Coronation Approach with Multiple Depleted Serum for Creating Biocompatible, Precision Nanomedicine. Small, 0, , 2202002.	5.2	0