

Hui Zhang

List of Publications by Year in descending order

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231
papers

16,599
citations

13068

68
h-index

18606

119
g-index

242
all docs

242
docs citations

242
times ranked

17839
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Controlled Synthesis of Pd Nanocrystals and Their Catalytic Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 1783-1794.	7.6	568
2	Low Temperature Synthesis of Flowerlike ZnO Nanostructures by Cetyltrimethylammonium Bromide-Assisted Hydrothermal Process. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3955-3958.	1.2	484
3	Enhancing the catalytic and electrocatalytic properties of Pt-based catalysts by forming bimetallic nanocrystals with Pd. <i>Chemical Society Reviews</i> , 2012, 41, 8035.	18.7	481
4	Synthesis of Pd nanocrystals enclosed by {100} facets and with sizes ≤ 10 nm for application in CO oxidation. <i>Nano Research</i> , 2011, 4, 83-91.	5.8	436
5	Platinum Concave Nanocubes with High-Index Facets and Their Enhanced Activity for Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2773-2777.	7.2	414
6	Noble-Metal Nanocrystals with Concave Surfaces: Synthesis and Applications. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7656-7673.	7.2	411
7	Shape-Controlled Synthesis of Copper Nanocrystals in an Aqueous Solution with Glucose as a Reducing Agent and Hexadecylamine as a Capping Agent. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10560-10564.	7.2	410
8	Synthesis of Pd~Pt Bimetallic Nanocrystals with a Concave Structure through a Bromide-Induced Galvanic Replacement Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 6078-6089.	6.6	405
9	Palladium Concave Nanocubes with High-Index Facets and Their Enhanced Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7850-7854.	7.2	379
10	Intermetallic Nanocrystals: Syntheses and Catalytic Applications. <i>Advanced Materials</i> , 2017, 29, 1605997.	11.1	375
11	Palladium nanocrystals enclosed by {100} and {111} facets in controlled proportions and their catalytic activities for formic acid oxidation. <i>Energy and Environmental Science</i> , 2012, 5, 6352-6357.	15.6	358
12	Controllable Growth of ZnO Microcrystals by a Capping-Molecule-Assisted Hydrothermal Process. <i>Crystal Growth and Design</i> , 2005, 5, 547-550.	1.4	320
13	Synthesis of flower-like ZnO nanostructures by an organic-free hydrothermal process. <i>Nanotechnology</i> , 2004, 15, 622-626.	1.3	290
14	Facile Synthesis of Pd~Pt Alloy Nanocages and Their Enhanced Performance for Preferential Oxidation of CO in Excess Hydrogen. <i>ACS Nano</i> , 2011, 5, 8212-8222.	7.3	236
15	Large-Scale Synthesis of SnO ₂ Nanotube Arrays as High-Performance Anode Materials of Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11302-11305.	1.5	231
16	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2354-2358.	7.2	209
17	A simple hydrothermal route for synthesizing SnO ₂ quantum dots. <i>Nanotechnology</i> , 2006, 17, 2386-2389.	1.3	202
18	Epitaxial Growth of Twinned Au~Pt Core~Shell Star-Shaped Decahedra as Highly Durable Electrocatalysts. <i>Nano Letters</i> , 2015, 15, 7808-7815.	4.5	195

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19	Controlling the Morphology of Rhodium Nanocrystals by Manipulating the Growth Kinetics with a Syringe Pump. <i>Nano Letters</i> , 2011, 11, 898-903.	4.5	190
20	Three-dimensional Dendritic Pt Nanostructures: Sonoelectrochemical Synthesis and Electrochemical Applications. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16385-16392.	1.5	180
21	Porous ZnCo ₂ O ₄ Nanowires Synthesis via Sacrificial Templates: High-Performance Anode Materials of Li-Ion Batteries. <i>Inorganic Chemistry</i> , 2011, 50, 3320-3324.	1.9	178
22	Multiwalled Carbon Nanotubes Anchored with SnS ₂ Nanosheets as High-Performance Anode Materials of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4067-4074.	4.0	159
23	A selective NH ₃ gas sensor based on Fe ₂ O ₃ @ZnO nanocomposites at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 910-915.	4.0	155
24	Kinetically controlled synthesis of Pt@Cu alloy concave nanocubes with high-index facets for methanol electro-oxidation. <i>Chemical Communications</i> , 2014, 50, 560-562.	2.2	140
25	CNTs@SnO ₂ @C Coaxial Nanocables with Highly Reversible Lithium Storage. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22535-22538.	1.5	139
26	Copper Can Still Be Epitaxially Deposited on Palladium Nanocrystals To Generate Core@Shell Nanocubes Despite Their Large Lattice Mismatch. <i>ACS Nano</i> , 2012, 6, 2566-2573.	7.3	139
27	Controllable growth of ZnO nanostructures by citric acid assisted hydrothermal process. <i>Materials Letters</i> , 2005, 59, 1696-1700.	1.3	138
28	Ligand-free Self-Assembly of Ceria Nanocrystals into Nanorods by Oriented Attachment at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12677-12680.	1.5	137
29	<i>In Situ</i> Synthesis of Multilayer Carbon Matrix Decorated with Copper Particles: Enhancing the Performance of Si as Anode for Li-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 3054-3062.	7.3	135
30	Carbon-coated SnO ₂ nanotubes: template-engaged synthesis and their application in lithium-ion batteries. <i>Nanoscale</i> , 2011, 3, 746-750.	2.8	131
31	CuO nanodendrites synthesized by a novel hydrothermal route. <i>Nanotechnology</i> , 2004, 15, 1428-1432.	1.3	122
32	In situ Study of Oxidative Etching of Palladium Nanocrystals by Liquid Cell Electron Microscopy. <i>Nano Letters</i> , 2014, 14, 3761-3765.	4.5	120
33	Nanocrystals Composed of Alternating Shells of Pd and Pt Can Be Obtained by Sequentially Adding Different Precursors. <i>Journal of the American Chemical Society</i> , 2011, 133, 10422-10425.	6.6	115
34	Coupling PtNi Ultrathin Nanowires with MXenes for Boosting Electrocatalytic Hydrogen Evolution in Both Acidic and Alkaline Solutions. <i>Small</i> , 2019, 15, e1805474.	5.2	113
35	Arrays of ZnO nanowires fabricated by a simple chemical solution route. <i>Nanotechnology</i> , 2003, 14, 423-426.	1.3	111
36	Highly loaded CoO/graphene nanocomposites as lithium-ion anodes with superior reversible capacity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2337.	5.2	111

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37	Aqueous Solution Synthesis of Pt@M (M = Fe, Co, Ni) Bimetallic Nanoparticles and Their Catalysis for the Hydrolytic Dehydrogenation of Ammonia Borane. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12429-12435.	4.0	110
38	From cobalt nitrate carbonate hydroxide hydrate nanowires to porous Co ₃ O ₄ nanorods for high performance lithium-ion battery electrodes. <i>Nanotechnology</i> , 2008, 19, 035711.	1.3	105
39	Selective Synthesis of Fe ₂ O ₃ and Fe ₃ O ₄ Nanowires Via a Single Precursor: A General Method for Metal Oxide Nanowires. <i>Nanoscale Research Letters</i> , 2010, 5, 1295-1300.	3.1	105
40	Hydrothermal Synthesis of Zn ₂ SnO ₄ Nanorods in the Diameter Regime of Sub-5 nm and Their Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7631-7634.	1.2	104
41	Self-Templating Synthesis of SnO ₂ @Carbon Hybrid Hollow Spheres for Superior Reversible Lithium Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1946-1952.	4.0	104
42	Tuning Surface Structure and Strain in Pd@Pt Core@Shell Nanocrystals for Enhanced Electrocatalytic Oxygen Reduction. <i>Small</i> , 2017, 13, 1603423.	5.2	104
43	Gas sensing behavior of polyvinylpyrrolidone-modified ZnO nanoparticles for trimethylamine. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 324-328.	4.0	103
44	Epitaxial Growth of Multimetallic Pd@PtM (M = Ni, Rh, Ru) Core@Shell Nanoplates Realized by in Situ-Produced CO from Interfacial Catalytic Reactions. <i>Nano Letters</i> , 2016, 16, 7999-8004.	4.5	103
45	Single crystalline CdS nanorods fabricated by a novel hydrothermal method. <i>Chemical Physics Letters</i> , 2003, 377, 654-657.	1.2	102
46	Carbon Nanocapsules as Nanoreactors for Controllable Synthesis of Encapsulated Iron and Iron Oxides: Magnetic Properties and Reversible Lithium Storage. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3612-3620.	1.5	101
47	Cu@Ge core@shell nanowire arrays as three-dimensional electrodes for high-rate capability lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 1511-1515.	6.7	101
48	Shape-Control Fabrication and Characterization of the Airplane-like FeO(OH) and Fe ₂ O ₃ Nanostructures. <i>Crystal Growth and Design</i> , 2006, 6, 351-353.	1.4	100
49	Selenium Nanotubes Synthesized by a Novel Solution Phase Approach. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1179-1182.	1.2	98
50	Facile Synthesis of Fivefold Twinned, Starfish-like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chloride-Free Precursor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5296-5300.	7.2	97
51	Shape-controlled nanostructured magnetite-type materials as highly efficient Fenton catalysts. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 739-749.	10.8	95
52	Long Bi ₂ S ₃ nanowires prepared by a simple hydrothermal method. <i>Nanotechnology</i> , 2003, 14, 974-977.	1.3	94
53	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. <i>Nature Communications</i> , 2018, 9, 1011.	5.8	87
54	Lattice-Mismatch-Induced Twinning for Seeded Growth of Anisotropic Nanostructures. <i>ACS Nano</i> , 2015, 9, 3307-3313.	7.3	86

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55	Two-dimensional SnS nanosheets fabricated by a novel hydrothermal method. <i>Journal of Materials Science</i> , 2005, 40, 591-595.	1.7	84
56	Preparation and characterization of water-soluble CdS nanocrystals by surface modification of ethylene diamine. <i>Materials Letters</i> , 2005, 59, 1024-1027.	1.3	83
57	Size-controlled synthesis of Pd nanosheets for tunable plasmonic properties. <i>CrystEngComm</i> , 2015, 17, 1833-1838.	1.3	81
58	In-situ Observation of Hydrogen-Induced Surface Faceting for Palladium-Copper Nanocrystals at Atmospheric Pressure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12427-12430.	7.2	81
59	Metal Oxide and Sulfide Hollow Spheres: Layer-By-Layer Synthesis and Their Application in Lithium-Ion Battery. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14836-14842.	1.2	78
60	Effects of complexing agent on CdS thin films prepared by chemical bath deposition. <i>Materials Letters</i> , 2004, 58, 5-9.	1.3	77
61	Directional CdS nanowires fabricated by chemical bath deposition. <i>Journal of Crystal Growth</i> , 2002, 246, 108-112.	0.7	75
62	Order-aligned Mn ₃ O ₄ nanostructures as super high-rate electrodes for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 32-37.	4.0	75
63	Three-dimensionally porous Fe ₃ O ₄ as high-performance anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 246, 198-203.	4.0	74
64	From ZnO nanorods to 3D hollow microhemispheres: solvothermal synthesis, photoluminescence and gas sensor properties. <i>Nanotechnology</i> , 2007, 18, 455604.	1.3	73
65	Straight and Thin ZnO Nanorods: Hectogram-Scale Synthesis at Low Temperature and Cathodoluminescence. <i>Journal of Physical Chemistry B</i> , 2006, 110, 827-830.	1.2	72
66	Homogeneous coating of Au and SnO ₂ nanocrystals on carbon nanotubes via layer-by-layer assembly: a new ternary hybrid for a room-temperature CO gas sensor. <i>Chemical Communications</i> , 2008, , 6182.	2.2	72
67	Room temperature electrically pumped ultraviolet random lasing from ZnO nanorod arrays on Si. <i>Optics Express</i> , 2009, 17, 14426.	1.7	71
68	Facile synthesis of Pd-Pt alloy concave nanocubes with high-index facets as electrocatalysts for methanol oxidation. <i>CrystEngComm</i> , 2014, 16, 2411-2416.	1.3	69
69	An In situ TEM study of the surface oxidation of palladium nanocrystals assisted by electron irradiation. <i>Nanoscale</i> , 2017, 9, 6327-6333.	2.8	68
70	Synthesis of Co ₂ SnO ₄ @C core-shell nanostructures with reversible lithium storage. <i>Journal of Power Sources</i> , 2011, 196, 10234-10239.	4.0	66
71	Synthesis of Rhodium Concave Tetrahedrons by Collectively Manipulating the Reduction Kinetics, Facet-Selective Capping, and Surface Diffusion. <i>Nano Letters</i> , 2013, 13, 6262-6268.	4.5	66
72	One-pot, large-scale synthesis of SnO ₂ nanotubes at room temperature. <i>Chemical Communications</i> , 2008, , 3028.	2.2	65

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73	Synthesis of polycrystalline SnO ₂ nanotubes on carbon nanotube template for anode material of lithium-ion battery. <i>Materials Research Bulletin</i> , 2009, 44, 211-215.	2.7	64
74	Large-scale synthesis of Si@C three-dimensional porous structures as high-performance anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20494-20499.	5.2	63
75	Synthesis of ultrafine lanthanum hydroxide nanorods by a simple hydrothermal process. <i>Materials Letters</i> , 2004, 58, 1180-1182.	1.3	62
76	Hydrothermal synthesis, characterization and properties of SnS nanoflowers. <i>Materials Letters</i> , 2006, 60, 2686-2689.	1.3	62
77	Ultrathin Two-Dimensional Pd-Based Nanorings as Catalysts for Hydrogenation with High Activity and Stability. <i>Small</i> , 2015, 11, 4745-4752.	5.2	62
78	Phase-Selective Synthesis and Self-Assembly of Monodisperse Copper Sulfide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13390-13394.	1.5	61
79	Novel CuS hollow spheres fabricated by a novel hydrothermal method. <i>Microporous and Mesoporous Materials</i> , 2005, 80, 153-156.	2.2	60
80	Hydrothermal synthesis of flower-like SrCO ₃ nanostructures. <i>Materials Letters</i> , 2005, 59, 420-422.	1.3	60
81	Layer-stacked tin disulfide nanorods in silica nanoreactors with improved lithium storage capabilities. <i>Nanoscale</i> , 2012, 4, 4002.	2.8	60
82	InOOH Hollow Spheres Synthesized by a Simple Hydrothermal Reaction. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20676-20679.	1.2	59
83	Large-scale synthesis and application of SnS ₂ @graphene nanocomposites as anode materials for lithium-ion batteries with enhanced cyclic performance and reversible capacity. <i>Journal of Alloys and Compounds</i> , 2013, 580, 457-464.	2.8	59
84	Synthesis and Field Emission Characteristics of Bilayered ZnO Nanorod Array Prepared by Chemical Reaction. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17055-17059.	1.2	57
85	Low-Temperature Growth of Uniform ZnO Particles with Controllable Ellipsoidal Morphologies and Characteristic Luminescence Patterns. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19147-19153.	1.2	56
86	Carbon nanotube-based magnetic-fluorescent nanohybrids as highly efficient contrast agents for multimodal cellular imaging. <i>Journal of Materials Chemistry</i> , 2010, 20, 9895.	6.7	56
87	Facile synthesis of uniform MWCNT@Si nanocomposites as high-performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 622, 966-972.	2.8	56
88	Facile synthesis of Rh@Pd alloy nanodendrites as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2014, 6, 7012-7018.	2.8	55
89	Cu@Sn Core@Shell Nanowire Arrays as Three-Dimensional Electrodes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23620-23624.	1.5	54
90	Synthesis of CdS nanotubes by chemical bath deposition. <i>Journal of Crystal Growth</i> , 2004, 263, 372-376.	0.7	53

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91	Atomic resolution liquid-cell transmission electron microscopy investigations of the dynamics of nanoparticles in ultrathin liquids. <i>Chemical Communications</i> , 2013, 49, 10944.	2.2	50
92	CoO/NiSix core-shell nanowire arrays as lithium-ion anodes with high rate capabilities. <i>Nanoscale</i> , 2012, 4, 991-996.	2.8	49
93	Synthesis of cadmium hydroxide nanoflake and nanowisker by hydrothermal method. <i>Materials Letters</i> , 2005, 59, 56-58.	1.3	48
94	Controllable growth of dendrite-like CuO nanostructures by ethylene glycol assisted hydrothermal process. <i>Materials Research Bulletin</i> , 2008, 43, 1291-1296.	2.7	48
95	Cu-Si _{1-x} Gex core-shell nanowire arrays as three-dimensional electrodes for high-rate capability lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 208, 434-439.	4.0	48
96	Tuning Surface Structure of Pd ₃ Pb/Pt _n Pb Nanocrystals for Boosting the Methanol Oxidation Reaction. <i>Advanced Science</i> , 2019, 6, 1902249.	5.6	48
97	Strain-Induced Corrosion Kinetics at Nanoscale Are Revealed in Liquid: Enabling Control of Corrosion Dynamics of Electrocatalysis. <i>CheM</i> , 2020, 6, 2257-2271.	5.8	48
98	Self-assembly of CdS: from nanoparticles to nanorods and arrayed nanorod bundles. <i>Materials Chemistry and Physics</i> , 2005, 93, 65-69.	2.0	47
99	Synthesis of La _{1-x} CaxMnO ₃ nanowires by a sol-gel process. <i>Chemical Physics Letters</i> , 2002, 363, 579-582.	1.2	46
100	Formation of PtCuCo Trimetallic Nanostructures with Enhanced Catalytic and Enzyme-like Activities for Biodetection. <i>ACS Applied Nano Materials</i> , 2018, 1, 222-231.	2.4	46
101	In situ study of the growth of two-dimensional palladium dendritic nanostructures using liquid-cell electron microscopy. <i>Chemical Communications</i> , 2014, 50, 9447.	2.2	45
102	Strain-induced Stranski-Krastanov growth of Pd@Pt core-shell hexapods and octapods as electrocatalysts for methanol oxidation. <i>Nanoscale</i> , 2017, 9, 11077-11084.	2.8	43
103	Single-crystalline SnS ₂ nano-belts fabricated by a novel hydrothermal method. <i>Journal of Physics Condensed Matter</i> , 2003, 15, L661-L665.	0.7	42
104	One-Pot Synthesis of Biocompatible CdSe/CdS Quantum Dots and Their Applications as Fluorescent Biological Labels. <i>Nanoscale Research Letters</i> , 2011, 6, 31.	3.1	42
105	A critical SiO _x layer on Si porous structures to construct highly-reversible anode materials for lithium-ion batteries. <i>Chemical Communications</i> , 2017, 53, 6101-6104.	2.2	42
106	High and Fast Response of a Graphene-Silicon Photodetector Coupled with 2D Fractal Platinum Nanoparticles. <i>Advanced Optical Materials</i> , 2018, 6, 1700793.	3.6	42
107	Surface Reconstruction on Uniform Cu Nanodisks Boosted Electrochemical Nitrate Reduction to Ammonia. , 2022, 4, 650-656.		42
108	Assembling CoSn ₃ nanoparticles on multiwalled carbon nanotubes with enhanced lithium storage properties. <i>Nanoscale</i> , 2011, 3, 1798.	2.8	41

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109	Layer-by-layer synthesis of $\text{Fe}_2\text{O}_3@\text{SnO}_2@\text{C}$ porous core-shell nanorods with high reversible capacity in lithium-ion batteries. <i>Nanoscale</i> , 2013, 5, 4744.	2.8	41
110	Enhanced activity, durability and anti-poisoning property of $\text{Pt}/\text{W}_{18}\text{O}_{49}$ for methanol oxidation with a sub-stoichiometric tungsten oxide $\text{W}_{18}\text{O}_{49}$ support. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20154-20163.	5.2	41
111	Low-temperature chemical solution route for ZnO based sulfide coaxial nanocables: general synthesis and gas sensor application. <i>Nanotechnology</i> , 2007, 18, 115619.	1.3	39
112	Vertically ordered $\text{Ni}_3\text{Si}_2/\text{Si}$ nanorod arrays as anode materials for high-performance Li-ion batteries. <i>Nanoscale</i> , 2012, 4, 5343.	2.8	39
113	Carbon Nanotube-ZnO Nanosphere Heterostructures: Low-Temperature Chemical Reaction Synthesis, Photoluminescence, and Their Application for Room Temperature NH_3 Gas Sensor. <i>Science of Advanced Materials</i> , 2009, 1, 13-17.	0.1	39
114	Sequential occurrence of ZnO nanoparticles, nanorods, and nanotips during hydrothermal process in a dilute aqueous solution. <i>Materials Letters</i> , 2005, 59, 3393-3397.	1.3	38
115	Graphene coupled with Pt cubic nanoparticles for high performance, air-stable graphene-silicon solar cells. <i>Nano Energy</i> , 2017, 32, 225-231.	8.2	38
116	Hydrothermal synthesis of flower-like Bi_2S_3 with nanorods in the diameter region of 30 nm. <i>Nanotechnology</i> , 2004, 15, 1122-1125.	1.3	37
117	Layer-by-layer assembly synthesis of ZnO/SnO_2 composite nanowire arrays as high-performance anode for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2011, 46, 2378-2384.	2.7	37
118	Synthesis of $\text{Co}_3\text{O}_4@\text{SnO}_2@\text{C}$ core-shell nanorods with superior reversible lithium-ion storage. <i>RSC Advances</i> , 2012, 2, 9511.	1.7	37
119	Facile synthesis of Ru-decorated Pt cubes and icosahedra as highly active electrocatalysts for methanol oxidation. <i>Nanoscale</i> , 2016, 8, 12812-12818.	2.8	37
120	Local epitaxial growth of Au-Rh core-shell star-shaped decahedra: A case for studying electronic and ensemble effects in hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118255.	10.8	37
121	General Solution Route for Nanoplates of Hexagonal Oxide or Hydroxide. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11196-11198.	1.2	36
122	$\text{Ni}_3\text{Si}_2@\text{Si}$ nanowires on Ni foam as a high-performance anode of Li-ion batteries. <i>Electrochemistry Communications</i> , 2011, 13, 1443-1446.	2.3	36
123	Seed-mediated growth of Au nanorings with size control on Pd ultrathin nanosheets and their tunable surface plasmonic properties. <i>Nanoscale</i> , 2016, 8, 3704-3710.	2.8	36
124	Star-shaped PbS crystals fabricated by a novel hydrothermal method. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7611-7615.	0.7	35
125	Sonochemical synthesis of amorphous long silver sulfide nanowires. <i>Materials Letters</i> , 2007, 61, 235-238.	1.3	35
126	General Layer-By-Layer Approach To Composite Nanotubes and Their Enhanced Lithium-Storage and Gas-Sensing Properties. <i>Chemistry of Materials</i> , 2009, 21, 5264-5271.	3.2	35

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127	Ultrasmall Palladium Nanoclusters as Effective Catalyst for Oxygen Reduction Reaction. ChemElectroChem, 2016, 3, 1225-1229.	1.7	35
128	Labeling transplanted mice islet with polyvinylpyrrolidone coated superparamagnetic iron oxide nanoparticles for <i>in vivo</i> detection by magnetic resonance imaging. Nanotechnology, 2009, 20, 365101.	1.3	34
129	Synthesis of flower-like CdS nanostructures by organic-free hydrothermal process and their optical properties. Materials Letters, 2007, 61, 3507-3510.	1.3	33
130	A Versatile Approach for the Synthesis of ZnO Nanorod-Based Hybrid Nanomaterials via Layer-by-Layer Assembly. Journal of Physical Chemistry C, 2009, 113, 8147-8151.	1.5	33
131	Multimetallic AuPd@Pd@Pt core-interlayer-shell icosahedral electrocatalysts for highly efficient oxygen reduction reaction. Science Bulletin, 2018, 63, 494-501.	4.3	33
132	Tailoring the Edge Sites of 2D Pd Nanostructures with Different Fractal Dimensions for Enhanced Electrocatalytic Performance. Advanced Science, 2018, 5, 1800430.	5.6	33
133	Large-scale synthesis of Ag@Si core-shell nanowall arrays as high-performance anode materials of Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 13949-13954.	5.2	32
134	Performance Improvement of Graphene/Silicon Photodetectors Using High Work Function Metal Nanoparticles with Plasma Effect. Advanced Optical Materials, 2018, 6, 1701243.	3.6	32
135	Cobalt ferrite nanorings: Ostwald ripening dictated synthesis and magnetic properties. Chemical Communications, 2008, , 5648.	2.2	31
136	Kinetically-controlled growth of cubic and octahedral Rh@Pd alloy oxygen reduction electrocatalysts with high activity and durability. Nanoscale, 2015, 7, 301-307.	2.8	31
137	Controlling the growth and field emission properties of silicide nanowire arrays by direct silicification of Ni foil. Nanotechnology, 2008, 19, 375602.	1.3	30
138	Surface reconstruction engineering of twinned Pd ₂ CoAg nanocrystals by atomic vacancy inducement for hydrogen evolution and oxygen reduction reactions. Applied Catalysis B: Environmental, 2019, 241, 424-429.	10.8	30
139	Single-crystalline Pd square nanoplates enclosed by {100} facets on reduced graphene oxide for formic acid electro-oxidation. Chemical Communications, 2016, 52, 14204-14207.	2.2	29
140	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
141	Probing the oxidative etching induced dissolution of palladium nanocrystals in solution by liquid cell transmission electron microscopy. Micron, 2017, 97, 22-28.	1.1	28
142	Nanostructured hybrid cobalt oxide/copper electrodes of lithium-ion batteries with reversible high-rate capabilities. Journal of Alloys and Compounds, 2012, 521, 83-89.	2.8	27
143	Voltage-controlled synthesis of Cu@Li ₂ O@Si core-shell nanorod arrays as high-performance anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 20510-20514.	5.2	27
144	Ultra-small Rh nanoparticles supported on WO ₃ nanowires as efficient catalysts for visible-light-enhanced hydrogen evolution from ammonia borane. Nanoscale Advances, 2019, 1, 3941-3947.	2.2	27

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