

# Miaofang Chi

## List of Publications by Year in descending order

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321  
papers

30,201  
citations

4388

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342  
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342  
docs citations

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times ranked

31921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manipulating Copper Dispersion on Ceria for Enhanced Catalysis: A Nanocrystal-Based Atom-Trapping Strategy. <i>Advanced Science</i> , 2022, 9, e2104749.	11.2	16
2	Robust Atomic-Resolution Imaging of Lithium in Battery Materials by Center-of-Mass Scanning Transmission Electron Microscopy. <i>ACS Nano</i> , 2022, 16, 1358-1367.	14.6	10
3	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. <i>Science Advances</i> , 2022, 8, eabm4322.	10.3	49
4	Solution-Phase Synthesis of PdH <sub>0.706</sub> Nanocubes with Enhanced Stability and Activity toward Formic Acid Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2556-2568.	13.7	42
5	Ultrasound-mediated synthesis of nanoporous fluorite-structured high-entropy oxides toward noble metal stabilization. <i>Science</i> , 2022, 25, 104214.	4.1	6
6	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. <i>Science</i> , 2022, 376, eabn3103.	12.6	239
7	Multiple Promotional Effects of Vanadium Oxide on Boron Nitride for Oxidative Dehydrogenation of Propane. <i>JACS Au</i> , 2022, 2, 1096-1104.	7.9	20
8	Phase-Controlled Synthesis of Ru Nanocrystals via Template-Directed Growth: Surface Energy versus Bulk Energy. <i>Nano Letters</i> , 2022, 22, 3591-3597.	9.1	7
9	Atomically Dispersed Platinum in Surface and Subsurface Sites on MgO Have Contrasting Catalytic Properties for CO Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3896-3903.	4.6	7
10	Defect Engineering of Ceria Nanocrystals for Enhanced Catalysis via a High-Entropy Oxide Strategy. <i>ACS Central Science</i> , 2022, 8, 1081-1090.	11.3	25
11	Measuring and directing charge transfer in heterogenous catalysts. <i>Nature Communications</i> , 2022, 13, .	12.8	19
12	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C <sub>2+</sub> Products in CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1909-1915.	13.8	122
13	A Simple Route to the Synthesis of Pt Nanobars and the Mechanistic Understanding of Symmetry Reduction. <i>Chemistry - A European Journal</i> , 2021, 27, 2760-2766.	3.3	5
14	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via <i>In Situ</i> Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 151-157.	9.1	36
15	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021, 4, 62-70.	34.4	153
16	<i>In Situ</i> Strong Metal-Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. <i>ACS Catalysis</i> , 2021, 11, 1938-1945.	11.2	50
17	Redox-couple investigations in Si-doped Li-rich cathode materials. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2780-2791.	2.8	6
18	Essential effect of the electrolyte on the mechanical and chemical degradation of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> cathodes upon long-term cycling. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2111-2119.	10.3	14

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19	Machine Learning Method Reveals Hidden Strong Metal-Support Interaction in Microscopy Datasets. <i>Small Methods</i> , 2021, 5, 2100035.	8.6	13
20	Neutron diffraction study of magnetism in van der Waals layered $\text{MnBi}_{2n}\text{Te}_{3n+1}$ . <i>Journal Physics D: Applied Physics</i> , 2021, 54, 174003.	2.8	13
21	Engineering Tunneling Selector to Achieve High Non-linearity for 1S1R Integration. <i>Frontiers in Nanotechnology</i> , 2021, 3, .	4.8	10
22	Kinetically Controlled Synthesis of Rhodium Nanocrystals with Different Shapes and a Comparison Study of Their Thermal and Catalytic Properties. <i>Journal of the American Chemical Society</i> , 2021, 143, 6293-6302.	13.7	26
23	Direct visualization of anionic electrons in an electride reveals inhomogeneities. <i>Science Advances</i> , 2021, 7, .	10.3	24
24	Swelling-Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. <i>Angewandte Chemie</i> , 2021, 133, 13090-13094.	2.0	7
25	Swelling-Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12980-12984.	13.8	28
26	Machine Learning: Machine Learning Method Reveals Hidden Strong Metal-Support Interaction in Microscopy Datasets (Small Methods 5/2021). <i>Small Methods</i> , 2021, 5, 2170020.	8.6	2
27	Site Mixing for Engineering Magnetic Topological Insulators. <i>Physical Review X</i> , 2021, 11, .	8.9	50
28	Local electronic structure variation resulting in Li <sup>+</sup> filament formation within solid electrolytes. <i>Nature Materials</i> , 2021, 20, 1485-1490.	27.5	226
29	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. <i>Nature Communications</i> , 2021, 12, 3215.	12.8	18
30	Interferometric 4D-STEM for Lattice Distortion and Interlayer Spacing Measurements of Bilayer and Trilayer 2D Materials. <i>Small</i> , 2021, 17, e2100388.	10.0	13
31	Correlating inhomogeneity in anionic electron density with hydrogen incorporation in $\text{Y}_5\text{Si}_3$ electrides. <i>Microscopy and Microanalysis</i> , 2021, 27, 146-147.	0.4	2
32	Extreme mixing in nanoscale transition metal alloys. <i>Matter</i> , 2021, 4, 2340-2353.	10.0	102
33	Maximizing the Catalytic Performance of $\text{Pd}@_{\text{Au}_x}\text{Pd}_{1-x}$ Nanocubes in $\text{H}_2\text{O}_2$ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie</i> , 2021, 133, 19795-19799.	2.0	11
34	$\text{Li}_0.625\text{Al}_0.125\text{H}_0.25\text{Cl}_0.75\text{O}_0.25$ Superionic Conductor with Disordered Rock-Salt Structure. <i>ACS Applied Energy Materials</i> , 2021, 4, 7674-7680.	5.1	2
35	Cryogenic Atomic Resolution and 4D STEM Imaging for Energy and Quantum Materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 384-385.	0.4	1
36	Maximizing the Catalytic Performance of $\text{Pd}@_{\text{Au}_x}\text{Pd}_{1-x}$ Nanocubes in $\text{H}_2\text{O}_2$ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19643-19647.	13.8	44

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37	Kinetically Controlled Synthesis of Pd@Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 149-162.	13.7	77
38	A Theory-Guided X-ray Absorption Spectroscopy Approach for Identifying Active Sites in Atomically Dispersed Transition-Metal Catalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 20144-20156.	13.7	28
39	Microscopy Society of America Awards: 2021 Award Winners. <i>Microscopy Today</i> , 2021, 29, 10-15.	0.3	1
40	Emerging Electron Microscopy Techniques for Probing Functional Interfaces in Energy Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1384-1396.	13.8	19
41	Emerging Electron Microscopy Techniques for Probing Functional Interfaces in Energy Materials. <i>Angewandte Chemie</i> , 2020, 132, 1400-1412.	2.0	4
42	A new trick for an old support: Stabilizing gold single atoms on LaFeO <sub>3</sub> perovskite. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118178.	20.2	31
43	Enhanced alcohol production over binary Mo/Co carbide catalysts in syngas conversion. <i>Journal of Catalysis</i> , 2020, 391, 446-458.	6.2	12
44	Alcohol-Induced Low-Temperature Blockage of Supported-Metal Catalysts for Enhanced Catalysis. <i>ACS Catalysis</i> , 2020, 10, 8515-8523.	11.2	18
45	Anisotropic Strain Tuning of L1 <sub>0</sub> Ternary Nanoparticles for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 19209-19216.	13.7	76
46	Long-Term Cyclability of NCM-811 at High Voltages in Lithium-Ion Batteries: an In-Depth Diagnostic Study. <i>Chemistry of Materials</i> , 2020, 32, 7796-7804.	6.7	152
47	Atomic-Scale Structural Mapping of Active Sites in Monolayer PGM-Free Catalysts by Low-Voltage 4D-STEM. <i>Microscopy and Microanalysis</i> , 2020, 26, 162-163.	0.4	2
48	Efficient electrically powered CO <sub>2</sub> -to-ethanol via suppression of deoxygenation. <i>Nature Energy</i> , 2020, 5, 478-486.	39.5	363
49	Pt@Co truncated octahedral nanocrystals: a class of highly active and durable catalysts toward oxygen reduction. <i>Nanoscale</i> , 2020, 12, 11718-11727.	5.6	13
50	A Memristor with Low Switching Current and Voltage for 1S1R Integration and Array Operation. <i>Advanced Electronic Materials</i> , 2020, 6, 1901411.	5.1	51
51	Pt@Pd Trimetallic Nanocages as a Dual Catalyst for Efficient Oxygen Reduction and Evolution Reactions in Acidic Media. <i>Advanced Energy Materials</i> , 2020, 10, 1904114.	19.5	100
52	Facile Synthesis of Ag@Pd <sub>nL</sub> Icosahedral Nanocrystals as a Class of Cost-Effective Electrocatalysts toward Formic Acid Oxidation. <i>ChemCatChem</i> , 2020, 12, 5156-5163.	3.7	8
53	The interplay between surface facet and reconstruction on isopropanol conversion over SrTiO <sub>3</sub> nanocrystals. <i>Journal of Catalysis</i> , 2020, 384, 49-60.	6.2	19
54	Pd@Ru Alloy Nanocages with a Face-Centered Cubic Structure and Their Enhanced Activity toward the Oxidation of Ethylene Glycol and Glycerol. <i>Small Methods</i> , 2020, 4, 1900843.	8.6	46

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55	Abnormally Low Activation Energy in Cubic Na <sub>3</sub> Sb <sub>4</sub> Superionic Conductors. Chemistry of Materials, 2020, 32, 2264-2271.	6.7	35
56	An ultrastable heterostructured oxide catalyst based on high-entropy materials: A new strategy toward catalyst stabilization via synergistic interfacial interaction. Applied Catalysis B: Environmental, 2020, 276, 119155.	20.2	72
57	Stabilizing Fuel Cell Materials Through Cryogenic Cooling for Simultaneous EELS-EDS Analysis. Microscopy and Microanalysis, 2020, 26, 1660-1662.	0.4	0
58	<i>In situ</i> Electric Field Manipulation of Ferroelectric Vortices. Microscopy and Microanalysis, 2019, 25, 1844-1845.	0.4	3
59	Atomic-Scale Study of Intrinsic Defects Suppressing the Thermal Conductivity of Boron Arsenide. Microscopy and Microanalysis, 2019, 25, 942-943.	0.4	0
60	Probing the Origin of Microcracks in Layered Oxide Cathodes via Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 2058-2059.	0.4	3
61	Machine Learning for Challenging EELS and EDS Spectral Decomposition. Microscopy and Microanalysis, 2019, 25, 180-181.	0.4	4
62	Understanding memristive switching via in situ characterization and device modeling. Nature Communications, 2019, 10, 3453.	12.8	275
63	Catalytic System Based on Sub-2 nm Pt Particles and Its Extraordinary Activity and Durability for Oxygen Reduction. Nano Letters, 2019, 19, 4997-5002.	9.1	68
64	Facile Synthesis and Characterization of Pd@Ir <sub>n</sub> (n = 1-4) Core-Shell Nanocubes for Highly Efficient Oxygen Evolution in Acidic Media. Chemistry of Materials, 2019, 31, 5867-5875.	6.7	65
65	Pd@Rh core-shell nanocrystals with well-defined facets and their enhanced catalytic performance towards CO oxidation. Nanoscale Horizons, 2019, 4, 1232-1238.	8.0	13
66	Nanoscale interlayer defects in iron arsenides. Journal of Solid State Chemistry, 2019, 277, 422-426.	2.9	1
67	Mapping Local Structural and Electronic Properties of 2D Materials by Multi-dimensional STEM. Microscopy and Microanalysis, 2019, 25, 960-961.	0.4	0
68	Electromagnetic Field Reconstructions of 4D-STEM Datasets using Ptychography and Differential Phase Contrast Imaging. Microscopy and Microanalysis, 2019, 25, 66-67.	0.4	1
69	Interphase Morphology between a Solid-State Electrolyte and Lithium Controls Cell Failure. ACS Energy Letters, 2019, 4, 591-599.	17.4	168
70	Photothermal transformation of Au@Ag nanocages under pulsed laser irradiation. Nanoscale, 2019, 11, 3013-3020.	5.6	29
71	Facile One-Pot Synthesis of Pd@Pt <sub>11</sub> Octahedra with Enhanced Activity and Durability toward Oxygen Reduction. Chemistry of Materials, 2019, 31, 1370-1380.	6.7	41
72	An all-in-one Sn-Co alloy as a binder-free anode for high-capacity batteries and its dynamic lithiation in situ. Chemical Communications, 2019, 55, 529-532.	4.1	9

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73	Ternary CoPtAu Nanoparticles as a General Catalyst for Highly Efficient Electrooxidation of Liquid Fuels. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11527-11533.	13.8	83
74	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. <i>ACS Nano</i> , 2019, 13, 7241-7251.	14.6	47
75	Construction of a Nanoporous Highly Crystalline Hexagonal Boron Nitride from an Amorphous Precursor for Catalytic Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10626-10630.	13.8	55
76	A hollow Co <sub>2</sub> SiO <sub>4</sub> nanosheet Li-ion battery anode with high electrochemical performance and its dynamic lithiation/delithiation using in situ transmission electron microscopy technology. <i>Applied Surface Science</i> , 2019, 490, 510-515.	6.1	14
77	Understanding the Low-Voltage Hysteresis of Anionic Redox in Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> . <i>Chemistry of Materials</i> , 2019, 31, 3756-3765.	6.7	112
78	Mechanistic understanding and strategies to design interfaces of solid electrolytes: insights gained from transmission electron microscopy. <i>Journal of Materials Science</i> , 2019, 54, 10571-10594.	3.7	14
79	Migration of Cobalt Species within Mixed Platinum-Cobalt Oxide Bifunctional Electrocatalysts in Alkaline Electrolytes. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3093-F3097.	2.9	7
80	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7244-7248.	13.8	89
81	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. <i>Angewandte Chemie</i> , 2019, 131, 7322-7326.	2.0	12
82	Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 °C, and Enhanced Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2019, 141, 7028-7036.	13.7	122
83	Facile Synthesis of Pt Icosahedral Nanocrystals with Controllable Sizes for the Evaluation of Size-Dependent Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2019, 11, 2458-2463.	3.7	11
84	Elucidating the mobility of H <sup>+</sup> and Li <sup>+</sup> ions in (Li <sub>0.25</sub> H <sub>x</sub> Al <sub>0.25</sub> )La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> via <sup>1</sup> H and <sup>7</sup> Li nuclear magnetic resonance, neutron and electron spectroscopy. <i>Energy and Environmental Science</i> , 2019, 12, 945-951.	10.8	10
85	Fundamental Relationship of Microstructure and Ionic Conductivity of Amorphous LLTO as Solid Electrolyte Material. <i>Journal of the Electrochemical Society</i> , 2019, 166, A515-A520.	2.9	21
86	Efficient upgrading of CO to C <sub>3</sub> fuel using asymmetric C-C coupling active sites. <i>Nature Communications</i> , 2019, 10, 5186.	12.8	127
87	Unveiling the Role of Al <sub>2</sub> O <sub>3</sub> in Preventing Surface Reconstruction During High-Voltage Cycling of Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 1308-1313.	5.1	41
88	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. <i>Nature Energy</i> , 2019, 4, 187-196.	39.5	1,099
89	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. <i>Joule</i> , 2019, 3, 124-135.	24.0	326
90	Optimizing the structural configuration of FePt-FeOx nanoparticles at the atomic scale by tuning the post-synthetic conditions. <i>Nano Energy</i> , 2019, 55, 441-446.	16.0	10

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91	Mn versus Al in Layered Oxide Cathodes in Lithium-Ion Batteries: A Comprehensive Evaluation on Long-Term Cyclability. <i>Advanced Energy Materials</i> , 2018, 8, 1703154.	19.5	260
92	Feature extraction via similarity search: application to atom finding and denoising in electron and scanning probe microscopy imaging. <i>Advanced Structural and Chemical Imaging</i> , 2018, 4, 3.	4.0	31
93	Understanding the Stability of Pt-Based Nanocages under Thermal Stress Using <i>In Situ</i> Electron Microscopy. <i>ChemNanoMat</i> , 2018, 4, 112-117.	2.8	19
94	Core-Shell Nanostructured Cobalt-Platinum Electrocatalysts with Enhanced Durability. <i>ACS Catalysis</i> , 2018, 8, 35-42.	11.2	72
95	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. <i>ChemNanoMat</i> , 2018, 4, 66-70.	2.8	15
96	Elucidating Ion Transport in Lithium-Ion Conductors by Combining Vibrational Spectroscopy in STEM and Neutron Scattering. <i>Microscopy and Microanalysis</i> , 2018, 24, 1496-1497.	0.4	0
97	Atomic-resolution electric field measurements with a universal detector. <i>Microscopy and Microanalysis</i> , 2018, 24, 114-115.	0.4	1
98	Sub-Ångstrom electric field measurements on a universal detector in a scanning transmission electron microscope. <i>Advanced Structural and Chemical Imaging</i> , 2018, 4, 10.	4.0	84
99	Conversion of Waste Tire Rubber into High-Value-Added Carbon Supports for Electrocatalysis. <i>Journal of the Electrochemical Society</i> , 2018, 165, H881-H888.	2.9	16
100	Understanding the Impact of Surface Reconstruction of Perovskite Catalysts on CH <sub>4</sub> Activation and Combustion. <i>ACS Catalysis</i> , 2018, 8, 10306-10315.	11.2	50
101	Confined Lithium-Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. <i>ACS Nano</i> , 2018, 12, 9775-9784.	14.6	61
102	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. <i>Nano Letters</i> , 2018, 18, 7004-7013.	9.1	42
103	Facile synthesis of Pt-Ag octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. <i>Journal of Materials Research</i> , 2018, 33, 3891-3897.	2.6	3
104	Revealing the Structural Stability and Na-Ion Mobility of 3D Superionic Conductor Na <sub>3</sub> SbS <sub>4</sub> at Extremely Low Temperatures. <i>ACS Applied Energy Materials</i> , 2018, 1, 7028-7034.	5.1	20
105	Real Space Visualization of Competing Phases in La <sub>0.6</sub> Sr <sub>2.4</sub> Mn <sub>2</sub> O <sub>7</sub> Single Crystals. <i>Chemistry of Materials</i> , 2018, 30, 7962-7969.	6.7	7
106	Antisite Pairs Suppress the Thermal Conductivity of BAs. <i>Physical Review Letters</i> , 2018, 121, 105901.	7.8	41
107	Migration of Iron Oxide Nanoparticle through a Silica Shell by the Redox-Buffering Effect. <i>ACS Nano</i> , 2018, 12, 10949-10956.	14.6	20
108	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. <i>ACS Catalysis</i> , 2018, 8, 6948-6960.	11.2	66

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109	Fabrication of Submicrometer-Thick Solid Electrolyte Membranes of $\text{Li}_3\text{PS}_4$ via Tiled Assembly of Nanoscale, Plate-Like Building Blocks. <i>Advanced Energy Materials</i> , 2018, 8, 1800014.	19.5	47
110	Accurate Calculation of CBED Patterns for 4D STEM Using Electron Densities Calculated by Density Functional Theory. <i>Microscopy and Microanalysis</i> , 2018, 24, 116-117.	0.4	2
111	Tire-derived carbon for catalytic preparation of biofuels from feedstocks containing free fatty acids. <i>Carbon Resources Conversion</i> , 2018, 1, 165-173.	5.9	38
112	Charge Transport Modulation in PbSe Nanocrystal Solids by Au Nanoparticle Doping. <i>ACS Nano</i> , 2018, 12, 9091-9100.	14.6	20
113	Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11129-11133.	10.3	196
114	Facile synthesis of Ag@Au core-shell nanowires with greatly improved stability against oxidation. <i>Chemical Communications</i> , 2017, 53, 1965-1968.	4.1	50
115	NixWO <sub>2.72</sub> nanorods as an efficient electrocatalyst for oxygen evolution reaction. <i>Green Energy and Environment</i> , 2017, 2, 119-123.	8.7	15
116	Interfaces in Heterogeneous Catalysts: Advancing Mechanistic Understanding through Atomic-Scale Measurements. <i>Accounts of Chemical Research</i> , 2017, 50, 787-795.	15.6	128
117	Plating Precious Metals on Nonprecious Metal Nanoparticles for Sustainable Electrocatalysts. <i>Nano Letters</i> , 2017, 17, 3391-3395.	9.1	61
118	Understanding the Thermal Stability of Palladium-Platinum Core-Shell Nanocrystals by <i>In Situ</i> Transmission Electron Microscopy and Density Functional Theory. <i>ACS Nano</i> , 2017, 11, 4571-4581.	14.6	53
119	A novel method combining additive manufacturing and alloy infiltration for NdFeB bonded magnet fabrication. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 438, 163-167.	2.3	65
120	New promising lithium malonatoborate salts for high voltage lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1233-1241.	10.3	25
121	Crystal Structural Effect of AuCu Alloy Nanoparticles on Catalytic CO Oxidation. <i>Journal of the American Chemical Society</i> , 2017, 139, 8846-8854.	13.7	181
122	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13511-13525.	10.3	63
123	Island Growth in the Seed-Mediated Overgrowth of Monometallic Colloidal Nanostructures. <i>CheM</i> , 2017, 3, 678-690.	11.7	61
124	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. <i>Chemistry of Materials</i> , 2017, 29, 9227-9237.	6.7	55
125	Effect of Surface Structure of TiO <sub>2</sub> Nanoparticles on CO <sub>2</sub> Adsorption and SO <sub>2</sub> Resistance. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9295-9306.	6.7	49
126	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO <sub>2</sub> nanotubes as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20651-20657.	10.3	45



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127	Improving superconductivity in BaFe <sub>2</sub> As <sub>2</sub> -based crystals by cobalt clustering and electronic uniformity. Scientific Reports, 2017, 7, 949.	3.3	13
128	Dimensionality Effects in FeGe <sub>2</sub> Nanowires: Enhanced Anisotropic Magnetization and Anomalous Electrical Transport. Scientific Reports, 2017, 7, 7126.	3.3	9
129	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. Microscopy and Microanalysis, 2017, 23, 1998-1999.	0.4	0
130	A novel tin hybrid nano-composite with double nets of carbon matrixes as a stable anode in lithium ion batteries. Chemical Communications, 2017, 53, 13125-13128.	4.1	7
131	Novel Acid Catalysts from Waste-derived Carbon: Application in Waste-to-Biofuel Conversion. ChemistrySelect, 2017, 2, 4975-4982.	1.5	17
132	Nonequilibrium Synthesis of TiO <sub>2</sub> Nanoparticle Building Blocks for Crystal Growth by Sequential Attachment in Pulsed Laser Deposition. Nano Letters, 2017, 17, 4624-4633.	9.1	33
133	Self-Assembled Framework Formed During Lithiation of SnS <sub>2</sub> Nanoplates Revealed by in Situ Electron Microscopy. Accounts of Chemical Research, 2017, 50, 1513-1520.	15.6	29
134	Novel Solid Electrolytes for Li-Ion Batteries: A Perspective from Electron Microscopy Studies. Frontiers in Energy Research, 2016, 4, .	2.3	10
135	Evolution of Au <sub>25</sub> (SR) <sub>18</sub> Nanoclusters on Ceria Surfaces during in situ Electron Beam Irradiation. Microscopy and Microanalysis, 2016, 22, 1278-1279.	0.4	0
136	Rapid aberration measurement with pixelated detectors. Journal of Microscopy, 2016, 263, 43-50.	1.8	16
137	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. ChemCatChem, 2016, 8, 1602-1602.	3.7	0
138	Ferroelectric Self-Poling, Switching, and Monoclinic Domain Configuration in BiFeO <sub>3</sub> Thin Films. Advanced Functional Materials, 2016, 26, 5166-5173.	14.9	25
139	Recent Development of Platinum-Based Nanocatalysts for Oxygen Reduction Electrocatalysis. Nanostructure Science and Technology, 2016, , 253-280.	0.1	2
140	Grain boundary stability and influence on ionic conductivity in a disordered perovskite—a first-principles investigation of lithium lanthanum titanate. MRS Communications, 2016, 6, 455-463.	1.8	11
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