Miaofang Chi

List of Publications by Year
in descending order

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321 papers	30,201 citations	4370 86 h-index	5101 166 g-index
342 all docs	342 docs citations	342 times ranked	31921 citing authors

#	Article	IF	Citations
1	Manipulating Copper Dispersion on Ceria for Enhanced Catalysis: A Nanocrystalâ€Based Atomâ€Trapping Strategy. Advanced Science, 2022, 9, e2104749.	5.6	16
2	Robust Atomic-Resolution Imaging of Lithium in Battery Materials by Center-of-Mass Scanning Transmission Electron Microscopy. ACS Nano, 2022, 16, 1358-1367.	7.3	10
3	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. Science Advances, 2022, 8, eabm4322.	4.7	49
4	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
5	Ultrasound-mediated synthesis of nanoporous fluorite-structured high-entropy oxides toward noble metal stabilization. IScience, 2022, 25, 104214.	1.9	6
6	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. Science, 2022, 376, eabn3103.	6.0	239
7	Multiple Promotional Effects of Vanadium Oxide on Boron Nitride for Oxidative Dehydrogenation of Propane. Jacs Au, 2022, 2, 1096-1104.	3.6	20
8	Phase-Controlled Synthesis of Ru Nanocrystals via Template-Directed Growth: Surface Energy versus Bulk Energy. Nano Letters, 2022, 22, 3591-3597.	4.5	7
9	Atomically Dispersed Platinum in Surface and Subsurface Sites on MgO Have Contrasting Catalytic Properties for CO Oxidation. Journal of Physical Chemistry Letters, 2022, 13, 3896-3903.	2.1	7
10	Defect Engineering of Ceria Nanocrystals for Enhanced Catalysis via a High-Entropy Oxide Strategy. ACS Central Science, 2022, 8, 1081-1090.	5.3	25
11	Measuring and directing charge transfer in heterogenous catalysts. Nature Communications, 2022, 13, .	5.8	19
12	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
13	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
14	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via In Situ Electron Microscopy. Nano Letters, 2021, 21, 151-157.	4.5	36
15	Denary oxide nanoparticles as highly stable catalysts for methane combustion. Nature Catalysis, 2021, 4, 62-70.	16.1	153
16	In Situ Strong Metalâ€“Support Interaction (SMSI) Affects Catalytic Alcohol Conversion. ACS Catalysis, 2021, 11, 1938-1945.	5.5	50
17	Redox-couple investigations in Si-doped Li-rich cathode materials. Physical Chemistry Chemical Physics, 2021, 23, 2780-2791.	1.3	6
18	Essential effect of the electrolyte on the mechanical and chemical degradation of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ cathodes upon long-term cycling. Journal of Materials Chemistry A, 2021, 9, 2111-2119.	5.2	14

#	Article	IF	Citations
19	Machine Learning Method Reveals Hidden Strong Metalâ€Support Interaction in Microscopy Datasets. Small Methods, 2021, 5, 2100035.	4.6	13
20	Neutron diffraction study of magnetism in van der Waals layered MnBi_{2n}Te_{3n+1}. Journal Physics D: Applied Physics, 2021, 54, 174003.	1.3	13
21	Engineering Tunneling Selector to Achieve High Non-linearity for 1S1R Integration. Frontiers in Nanotechnology, 2021, 3, .	2.4	10
22	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
23	Direct visualization of anionic electrons in an electride reveals inhomogeneities. Science Advances, 2021, 7, .	4.7	24
24	Swellingâ€Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. Angewandte Chemie, 2021, 133, 13090-13094.	1.6	7
25	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
26	Machine Learning: Machine Learning Method Reveals Hidden Strong Metalâ€Support Interaction in Microscopy Datasets (Small Methods 5/2021). Small Methods, 2021, 5, 2170020.	4.6	2
27	Site Mixing for Engineering Magnetic Topological Insulators. Physical Review X, 2021, 11, .	2.8	50
28	Local electronic structure variation resulting in Li â€˜filamentâ€™ formation within solid electrolytes. Nature Materials, 2021, 20, 1485-1490.	13.3	226
29	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. Nature Communications, 2021, 12, 3215.	5.8	18
30	Interferometric 4Dâ€STEM for Lattice Distortion and Interlayer Spacing Measurements of Bilayer and Trilayer 2D Materials. Small, 2021, 17, e2100388.	5.2	13
31	Correlating inhomogeneity in anionic electron density with hydrogen incorporation in Y5Si3 electrides. Microscopy and Microanalysis, 2021, 27, 146-147.	0.2	2
32	Extreme mixing in nanoscale transition metal alloys. Matter, 2021, 4, 2340-2353.	5.0	102
33	Maximizing the Catalytic Performance of Pd@Au_xPd_{1â€’x} Nanocubes in H₂O₂ Production by Reducing Shell Thickness to Increase Compositional Stability. Angewandte Chemie, 2021, 133, 19795-19799.	1.6	11
34	Li0.625Al0.125H0.25Cl0.75O0.25 Superionic Conductor with Disordered Rock-Salt Structure. ACS Applied Energy Materials, 2021, 4, 7674-7680.	2.5	2
35	Cryogenic Atomic Resolution and 4D STEM Imaging for Energy and Quantum Materials. Microscopy and Microanalysis, 2021, 27, 384-385.	0.2	1
36	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

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37	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
38	A Theory-Guided X-ray Absorption Spectroscopy Approach for Identifying Active Sites in Atomically Dispersed Transition-Metal Catalysts. Journal of the American Chemical Society, 2021, 143, 20144-20156.	6.6	28
39	Microscopy Society of America Awards: 2021 Award Winners. Microscopy Today, 2021, 29, 10-15.	0.2	1
40	Emerging Electron Microscopy Techniques for Probing Functional Interfaces in Energy Materials. Angewandte Chemie - International Edition, 2020, 59, 1384-1396.	7.2	19
41	Emerging Electron Microscopy Techniques for Probing Functional Interfaces in Energy Materials. Angewandte Chemie, 2020, 132, 1400-1412.	1.6	4
42	A new trick for an old support: Stabilizing gold single atoms on LaFeO3 perovskite. Applied Catalysis B: Environmental, 2020, 261, 118178.	10.8	31
43	Enhanced alcohol production over binary Mo/Co carbide catalysts in syngas conversion. Journal of Catalysis, 2020, 391, 446-458.	3.1	12
44	Alcohol-Induced Low-Temperature Blockage of Supported-Metal Catalysts for Enhanced Catalysis. ACS Catalysis, 2020, 10, 8515-8523.	5.5	18
45	Anisotropic Strain Tuning of L1₀ Ternary Nanoparticles for Oxygen Reduction. Journal of the American Chemical Society, 2020, 142, 19209-19216.	6.6	76
46	Long-Term Cyclability of NCM-811 at High Voltages in Lithium-Ion Batteries: an In-Depth Diagnostic Study. Chemistry of Materials, 2020, 32, 7796-7804.	3.2	152
47	Atomic-Scale Structural Mapping of Active Sites in Monolayer PGM-Free Catalysts by Low-Voltage 4D-STEM. Microscopy and Microanalysis, 2020, 26, 162-163.	0.2	2
48	Efficient electrically powered CO2-to-ethanol via suppression of deoxygenation. Nature Energy, 2020, 5, 478-486.	19.8	363
49	Ptâ€“Co truncated octahedral nanocrystals: a class of highly active and durable catalysts toward oxygen reduction. Nanoscale, 2020, 12, 11718-11727.	2.8	13
50	A Memristor with Low Switching Current and Voltage for 1S1R Integration and Array Operation. Advanced Electronic Materials, 2020, 6, 1901411.	2.6	51
51	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
52	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
53	The interplay between surface facet and reconstruction on isopropanol conversion over SrTiO3 nanocrystals. Journal of Catalysis, 2020, 384, 49-60.	3.1	19
54	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

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55	Abnormally Low Activation Energy in Cubic Na₃SbS₄ Superionic Conductors. Chemistry of Materials, 2020, 32, 2264-2271.	3.2	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.	10.8	72
57	Stabilizing Fuel Cell Materials Through Cryogenic Cooling for Simultaneous EELS-EDS Analysis. Microscopy and Microanalysis, 2020, 26, 1660-1662.	0.2	0
58	In situ Electric Field Manipulation of Ferroelectric Vortices. Microscopy and Microanalysis, 2019, 25, 1844-1845.	0.2	3
59	Atomic-Scale Study of Intrinsic Defects Suppressing the Thermal Conductivity of Boron Arsenide. Microscopy and Microanalysis, 2019, 25, 942-943.	0.2	0
60	Probing the Origin of Microcracks in Layered Oxide Cathodes via Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 2058-2059.	0.2	3
61	Machine Learning for Challenging EELS and EDS Spectral Decomposition. Microscopy and Microanalysis, 2019, 25, 180-181.	0.2	4
62	Understanding memristive switching via in situ characterization and device modeling. Nature Communications, 2019, 10, 3453.	5.8	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.	4.5	68
64	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
65	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
66	Nanoscale interlayer defects in iron arsenides. Journal of Solid State Chemistry, 2019, 277, 422-426.	1.4	1
67	Mapping Local Structural and Electronic Properties of 2D Materials by Multi-dimensional STEM. Microscopy and Microanalysis, 2019, 25, 960-961.	0.2	0
68	Electromagnetic Field Reconstructions of 4D-STEM Datasets using Ptychography and Differential Phase Contrast Imaging. Microscopy and Microanalysis, 2019, 25, 66-67.	0.2	1
69	Interphase Morphology between a Solid-State Electrolyte and Lithium Controls Cell Failure. ACS Energy Letters, 2019, 4, 591-599.	8.8	168
70	Photothermal transformation of Auâ€“Ag nanocages under pulsed laser irradiation. Nanoscale, 2019, 11, 3013-3020.	2.8	29
71	Facile One-Pot Synthesis of Pd@Pt_{1L} Octahedra with Enhanced Activity and Durability toward Oxygen Reduction. Chemistry of Materials, 2019, 31, 1370-1380.	3.2	41
72	An all-in-one Snâ€“Co alloy as a binder-free anode for high-capacity batteries and its dynamic lithiation in situ. Chemical Communications, 2019, 55, 529-532.	2.2	9

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73	Ternary CoPtAu Nanoparticles as a General Catalyst for Highly Efficient Electroâ€oxidation of Liquid Fuels. Angewandte Chemie - International Edition, 2019, 58, 11527-11533.	7.2	83
74	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. ACS Nano, 2019, 13, 7241-7251.	7.3	47
75	Construction of a Nanoporous Highly Crystalline Hexagonal Boron Nitride from an Amorphous Precursor for Catalytic Dehydrogenation. Angewandte Chemie - International Edition, 2019, 58, 10626-10630.	7.2	55
76	A hollow Co2SiO4 nanosheet Li-ion battery anode with high electrochemical performance and its dynamic lithiation/delithiation using in situ transmission electron microscopy technology. Applied Surface Science, 2019, 490, 510-515.	3.1	14
77	Understanding the Low-Voltage Hysteresis of Anionic Redox in Na₂Mn₃O₇. Chemistry of Materials, 2019, 31, 3756-3765.	3.2	112
78	Mechanistic understanding and strategies to design interfaces of solid electrolytes: insights gained from transmission electron microscopy. Journal of Materials Science, 2019, 54, 10571-10594.	1.7	14
79	Migration of Cobalt Species within Mixed Platinum-Cobalt Oxide Bifunctional Electrocatalysts in Alkaline Electrolytes. Journal of the Electrochemical Society, 2019, 166, F3093-F3097.	1.3	7
80	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
81	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, 2019, 131, 7322-7326.	1.6	12
82	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
83	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
84	Elucidating the mobility of H⁺and Li⁺ions in (Li_{6.25â^'x}H_xAl_{0.25})La₃Zr₂O₁₂viacorrelative neutron and electron spectroscopy. Energy and Environmental Science, 2019, 12, 945-951.	15.6	48
85	Fundamental Relationship of Microstructure and Ionic Conductivity of Amorphous LLTO as Solid Electrolyte Material. Journal of the Electrochemical Society, 2019, 166, A515-A520.	1.3	21
86	Efficient upgrading of CO to C3 fuel using asymmetric C-C coupling active sites. Nature Communications, 2019, 10, 5186.	5.8	127
87	Unveiling the Role of Al₂O₃ in Preventing Surface Reconstruction During High-Voltage Cycling of Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1308-1313.	2.5	41
88	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. Nature Energy, 2019, 4, 187-196.	19.8	1,099
89	Hard-Magnet L10-CoPt Nanoparticles Advance Fuel Cell Catalysis. Joule, 2019, 3, 124-135.	11.7	326
90	Optimizing the structural configuration of FePt-FeOx nanoparticles at the atomic scale by tuning the post-synthetic conditions. Nano Energy, 2019, 55, 441-446.	8.2	10

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91	Mn versus Al in Layered Oxide Cathodes in Lithiumâ€Ion Batteries: A Comprehensive Evaluation on Longâ€Term Cyclability. Advanced Energy Materials, 2018, 8, 1703154.	10.2	260
92	Feature extraction via similarity search: application to atom finding and denoising in electron and scanning probe microscopy imaging. Advanced Structural and Chemical Imaging, 2018, 4, 3.	4.0	31
93	Understanding the Stability of Ptâ€Based Nanocages under Thermal Stress Using In Situ Electron Microscopy. ChemNanoMat, 2018, 4, 112-117.	1.5	19
94	Coreâ€“Shell Nanostructured Cobaltâ€“Platinum Electrocatalysts with Enhanced Durability. ACS Catalysis, 2018, 8, 35-42.	5.5	72
95	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. ChemNanoMat, 2018, 4, 66-70.	1.5	15
96	Elucidating Ion Transport in Lithium-Ion Conductors by Combining Vibrational Spectroscopy in STEM and Neutron Scattering. Microscopy and Microanalysis, 2018, 24, 1496-1497.	0.2	0
97	Atomic-resolution electric field measurements with a universal detector. Microscopy and Microanalysis, 2018, 24, 114-115.	0.2	1
98	Sub-Ã…ngstrom electric field measurements on a universal detector in a scanning transmission electron microscope. Advanced Structural and Chemical Imaging, 2018, 4, 10.	4.0	84
99	Conversion of Waste Tire Rubber into High-Value-Added Carbon Supports for Electrocatalysis. Journal of the Electrochemical Society, 2018, 165, H881-H888.	1.3	16
100	Understanding the Impact of Surface Reconstruction of Perovskite Catalysts on CH₄ Activation and Combustion. ACS Catalysis, 2018, 8, 10306-10315.	5.5	50
101	Confined Lithiumâ€“Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. ACS Nano, 2018, 12, 9775-9784.	7.3	61
102	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
103	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
104	Revealing the Structural Stability and Na-Ion Mobility of 3D Superionic Conductor Na₃SbS₄ at Extremely Low Temperatures. ACS Applied Energy Materials, 2018, 1, 7028-7034.	2.5	20
105	Real Space Visualization of Competing Phases in La0.6Sr2.4Mn2O7 Single Crystals. Chemistry of Materials, 2018, 30, 7962-7969.	3.2	7
106	Antisite Pairs Suppress the Thermal Conductivity of BAs. Physical Review Letters, 2018, 121, 105901.	2.9	41
107	Migration of Iron Oxide Nanoparticle through a Silica Shell by the Redox-Buffering Effect. ACS Nano, 2018, 12, 10949-10956.	7.3	20
108	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

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109	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
110	Accurate Calculation of CBED Patterns for 4D STEM Using Electron Densities Calculated by Density Functional Theory.. Microscopy and Microanalysis, 2018, 24, 116-117.	0.2	2
111	Tire-derived carbon for catalytic preparation of biofuels from feedstocks containing free fatty acids. Carbon Resources Conversion, 2018, 1, 165-173.	3.2	38
112	Charge Transport Modulation in PbSe Nanocrystal Solids by Au_xAg_{1â€“x} Nanoparticle Doping. ACS Nano, 2018, 12, 9091-9100.	7.3	20
113	Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. Journal of Materials Chemistry A, 2018, 6, 11129-11133.	5.2	196
114	Facile synthesis of Ag@Au coreâ€“sheath nanowires with greatly improved stability against oxidation. Chemical Communications, 2017, 53, 1965-1968.	2.2	50
115	NixWO2.72 nanorods as an efficient electrocatalyst for oxygen evolution reaction. Green Energy and Environment, 2017, 2, 119-123.	4.7	15
116	Interfaces in Heterogeneous Catalysts: Advancing Mechanistic Understanding through Atomic-Scale Measurements. Accounts of Chemical Research, 2017, 50, 787-795.	7.6	128
117	Plating Precious Metals on Nonprecious Metal Nanoparticles for Sustainable Electrocatalysts. Nano Letters, 2017, 17, 3391-3395.	4.5	61
118	Understanding the Thermal Stability of Palladiumâ€“Platinum Coreâ€“Shell Nanocrystals by In Situ Transmission Electron Microscopy and Density Functional Theory. ACS Nano, 2017, 11, 4571-4581.	7.3	53
119	A novel method combining additive manufacturing and alloy infiltration for NdFeB bonded magnet fabrication. Journal of Magnetism and Magnetic Materials, 2017, 438, 163-167.	1.0	65
120	New promising lithium malonatoborate salts for high voltage lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 1233-1241.	5.2	25
121	Crystal Structural Effect of AuCu Alloy Nanoparticles on Catalytic CO Oxidation. Journal of the American Chemical Society, 2017, 139, 8846-8854.	6.6	181
122	Unrivaled combination of surface area and pore volume in micelle-templated carbon for supercapacitor energy storage. Journal of Materials Chemistry A, 2017, 5, 13511-13525.	5.2	63
123	Island Growth in the Seed-Mediated Overgrowth of Monometallic Colloidal Nanostructures. CheM, 2017, 3, 678-690.	5.8	61
124	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
125	Effect of Surface Structure of TiO₂ Nanoparticles on CO₂ Adsorption and SO₂ Resistance. ACS Sustainable Chemistry and Engineering, 2017, 5, 9295-9306.	3.2	49
126	In situ TEM observation of the electrochemical lithiation of N-doped anatase TiO₂ nanotubes as anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 20651-20657.	5.2	45

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127	Improving superconductivity in BaFe2As2-based crystals by cobalt clustering and electronic uniformity. Scientific Reports, 2017, 7, 949.	1.6	13
128	Dimensionality Effects in FeGe2 Nanowires: Enhanced Anisotropic Magnetization and Anomalous Electrical Transport. Scientific Reports, 2017, 7, 7126.	1.6	9
129	Integrating Novel Microscopy into Battery Research: From Atomic Resolution to In Situ and Functional Imaging. Microscopy and Microanalysis, 2017, 23, 1998-1999.	0.2	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.	2.2	7
131	Novel Acid Catalysts from Wasteâ€Tireâ€Derived Carbon: Application in Wasteâ€“toâ€Biofuel Conversion. ChemistrySelect, 2017, 2, 4975-4982.	0.7	17
132	Nonequilibrium Synthesis of TiO₂ Nanoparticle â€œBuilding Blocksâ€•for Crystal Growth by Sequential Attachment in Pulsed Laser Deposition. Nano Letters, 2017, 17, 4624-4633.	4.5	33
133	Self-Assembled Framework Formed During Lithiation of SnS₂ Nanoplates Revealed by in Situ Electron Microscopy. Accounts of Chemical Research, 2017, 50, 1513-1520.	7.6	29
134	Novel Solid Electrolytes for Li-Ion Batteries: A Perspective from Electron Microscopy Studies. Frontiers in Energy Research, 2016, 4, .	1.2	10
135	Evolution of Au 25 (SR)18 Nanoclusters on Ceria Surfaces during in situ Electron Beam Irradiation. Microscopy and Microanalysis, 2016, 22, 1278-1279.	0.2	0
136	Rapid aberration measurement with pixelated detectors. Journal of Microscopy, 2016, 263, 43-50.	0.8	16
137	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. ChemCatChem, 2016, 8, 1602-1602.	1.8	0
138	Ferroelectric Selfâ€Poling, Switching, and Monoclinic Domain Configuration in BiFeO₃ Thin Films. Advanced Functional Materials, 2016, 26, 5166-5173.	7.8	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 perovskiteâ€”a first-principles investigation of lithium lanthanum titanate. MRS Communications, 2016, 6, 455-463.	0.8	11
141	Fast Aberration Measurement in Multi-Dimensional STEM. Microscopy and Microanalysis, 2016, 22, 252-253.	0.2	1
142	Using Multivariate Analysis of Scanning-Rochigram Data to Reveal Material Functionality. Microscopy and Microanalysis, 2016, 22, 292-293.	0.2	2
143	Big Data Analytics for Scanning Transmission Electron Microscopy Ptychography. Scientific Reports, 2016, 6, 26348.	1.6	62
144	In-Plane Heterojunctions Enable Multiphasic Two-Dimensional (2D) MoS₂ Nanosheets As Efficient Photocatalysts for Hydrogen Evolution from Water Reduction. ACS Catalysis, 2016, 6, 6723-6729.	5.5	116

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145	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
146	Facile Synthesis of Ptâ€“Pd Alloy Nanocages and Pt Nanorings by Templating with Pd Nanoplates. ChemNanoMat, 2016, 2, 1086-1091.	1.5	16
147	Highâ€Selectivity Electrochemical Conversion of CO₂ to Ethanol using a Copper Nanoparticle/Nâ€Doped Graphene Electrode. ChemistrySelect, 2016, 1, 6055-6061.	0.7	251
148	Interfacial Stability of Li Metalâ€“Solid Electrolyte Elucidated via in Situ Electron Microscopy. Nano Letters, 2016, 16, 7030-7036.	4.5	309
149	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
150	Facile Synthesis of Sub-20 nm Silver Nanowires through a Bromide-Mediated Polyol Method. ACS Nano, 2016, 10, 7892-7900.	7.3	223
151	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO₂ Reduction: The Elucidation of Size and Surface Condition Effects. ACS Catalysis, 2016, 6, 6255-6264.	5.5	212
152	Facile Synthesis of Rhodium Icosahedra with Controlled Sizes up to 12â€…nm. ChemNanoMat, 2016, 2, 61-66.	1.5	26
153	Dynamic scan control in STEM: spiral scans. Advanced Structural and Chemical Imaging, 2016, 2, .	4.0	59
154	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
155	Two-dimensional GaSe/MoSe ₂ misfit bilayer heterojunctions by van der Waals epitaxy. Science Advances, 2016, 2, e1501882.	4.7	239
156	The effect of surface capping on the diffusion of adatoms in the synthesis of Pd@Au coreâ€“shell nanocrystals. Chemical Communications, 2016, 52, 13159-13162.	2.2	17
157	A â€œHiddenâ€•Mesoscopic Feature Revealed By Electron Microscopy Could Facilitate Ion Transport In Solid Electrolytes. Microscopy and Microanalysis, 2016, 22, 1308-1309.	0.2	0
158	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. ChemCatChem, 2016, 8, 1658-1664.	1.8	18
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