Huolin L Xin

List of Publications by Year
in descending order

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311 papers	30,334 citations	6254 80 h-index	5120 166 g-index
318 all docs	318 docs citations	318 times ranked	30044 citing authors

#	Article	IF	Citations
1	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. Science, 2014, 343, 1339-1343.	12.6	2,376
2	Homogeneously dispersed multimetal oxygen-evolving catalysts. Science, 2016, 352, 333-337.	12.6	1,948
3	Structurally ordered intermetallic platinumâ€“cobalt coreâ€“shell nanoparticles with enhanced activity and stability as oxygen reduction electrocatalysts. Nature Materials, 2013, 12, 81-87.	27.5	1,768
4	Memristors with diffusive dynamics as synaptic emulators for neuromorphic computing. Nature Materials, 2017, 16, 101-108.	27.5	1,655
5	Surface reconstruction and chemical evolution of stoichiometric layered cathode materials for lithium-ion batteries. Nature Communications, 2014, 5, 3529.	12.8	1,118
6	Evolution of redox couples in Li- and Mn-rich cathode materials and mitigation of voltage fade by reducing oxygen release. Nature Energy, 2018, 3, 690-698.	39.5	675
7	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. Angewandte Chemie - International Edition, 2019, 58, 2321-2325.	13.8	543
8	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. Nature Chemistry, 2018, 10, 149-154.	13.6	476
9	Facet development during platinum nanocube growth. Science, 2014, 345, 916-919.	12.6	429
10	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	47.7	390
11	Memristor crossbar arrays with 6-nm half-pitch and 2-nm critical dimension. Nature Nanotechnology, 2019, 14, 35-39.	31.5	381
12	Stable and Efficient Single-Atom Zn Catalyst for CO₂ Reduction to CH₄. Journal of the American Chemical Society, 2020, 142, 12563-12567.	13.7	358
13	Diamond family of nanoparticle superlattices. Science, 2016, 351, 582-586.	12.6	331
14	A disordered rock salt anode for fast-charging lithium-ion batteries. Nature, 2020, 585, 63-67.	27.8	326
15	Amorphization activated ruthenium-tellurium nanorods for efficient waterÂsplitting. Nature Communications, 2019, 10, 5692.	12.8	312
16	Visualization of Electrodeâ€“Electrolyte Interfaces in LiPF₆/EC/DEC Electrolyte for Lithium Ion Batteries via in Situ TEM. Nano Letters, 2014, 14, 1745-1750.	9.1	304
17	Pt-Decorated PdCo@Pd/C Coreâ^'Shell Nanoparticles with Enhanced Stability and Electrocatalytic Activity for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2010, 132, 17664-17666.	13.7	300
18	Anatomy of Ag/Hafniaâ€Based Selectors with 10¹⁰ Nonlinearity. Advanced Materials, 2017, 29, 1604457.	21.0	292

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19	Tuning Oxygen Reduction Reaction Activity via Controllable Dealloying: A Model Study of Ordered Cu₃Pt/C Intermetallic Nanocatalysts. Nano Letters, 2012, 12, 5230-5238.	9.1	291
20	In Situ STEM-EELS Observation of Nanoscale Interfacial Phenomena in All-Solid-State Batteries. Nano Letters, 2016, 16, 3760-3767.	9.1	278
21	Solutionâ€Processable Glass Liâ€Li₄SnS₄ Superionic Conductors for Allâ€Solidâ€State Liâ€Ion Batteries. Advanced Materials, 2016, 28, 1874-1883.	21.0	265
22	Visualizing the 3D Internal Structure of Calcite Single Crystals Grown in Agarose Hydrogels. Science, 2009, 326, 1244-1247.	12.6	257
23	Surface patterning of nanoparticles with polymer patches. Nature, 2016, 538, 79-83.	27.8	257
24	Recent Advances of Structurally Ordered Intermetallic Nanoparticles for Electrocatalysis. ACS Catalysis, 2018, 8, 3237-3256.	11.2	245
25	Prescribed nanoparticle cluster architectures and low-dimensional arrays built using octahedral DNA origami frames. Nature Nanotechnology, 2015, 10, 637-644.	31.5	243
26	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. Nano Letters, 2018, 18, 3241-3249.	9.1	237
27	Sub-50-nm self-assembled nanotextures for enhanced broadband antireflection in silicon solar cells. Nature Communications, 2015, 6, 5963.	12.8	230
28	Porous Structured Niâ€“Feâ€“P Nanocubes Derived from a Prussian Blue Analogue as an Electrocatalyst for Efficient Overall Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 26134-26142.	8.0	220
29	Metal segregation in hierarchically structured cathode materials for high-energy lithiumÂbatteries. Nature Energy, 2016, 1, .	39.5	209
30	Promoting H2O2 production via 2-electron oxygen reduction by coordinating partially oxidized Pd with defect carbon. Nature Communications, 2020, 11, 2178.	12.8	209
31	Lattice engineering through nanoparticleâ€“DNA frameworks. Nature Materials, 2016, 15, 654-661.	27.5	198
32	Bimetallic synergy in cobaltâ€“palladium nanocatalysts for CO oxidation. Nature Catalysis, 2019, 2, 78-85.	34.4	195
33	Superlattices assembled through shape-induced directional binding. Nature Communications, 2015, 6, 6912.	12.8	188
34	Effect of biaxial strain on the electrical and magnetic properties of (001) La0.7Sr0.3MnO3 thin films. Applied Physics Letters, 2009, 95, .	3.3	184
35	Altering Ligand Fields in Single-Atom Sites through Second-Shell Anion Modulation Boosts the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2022, 144, 2197-2207.	13.7	183
36	Sub-10 nm Ta Channel Responsible for Superior Performance of a HfO2 Memristor. Scientific Reports, 2016, 6, 28525.	3.3	177

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37	A spongy nickel-organic CO ₂ reduction photocatalyst for nearly 100% selective CO production. Science Advances, 2017, 3, e1700921.	10.3	175
38	Ordered three-dimensional nanomaterials using DNA-prescribed and valence-controlled material voxels. Nature Materials, 2020, 19, 789-796.	27.5	172
39	Profiling the nanoscale gradient in stoichiometric layered cathode particles for lithium-ion batteries. Energy and Environmental Science, 2014, 7, 3077.	30.8	170
40	Aperture-scanning Fourier ptychography for 3D refocusing and super-resolution macroscopic imaging. Optics Express, 2014, 22, 13586.	3.4	166
41	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. Chemical Reviews, 2021, 121, 5986-6056.	47.7	165
42	Facile Synthesis of Carbon-Supported Pdâ€“Co Coreâ€“Shell Nanoparticles as Oxygen Reduction Electrocatalysts and Their Enhanced Activity and Stability with Monolayer Pt Decoration. Chemistry of Materials, 2012, 24, 2274-2281.	6.7	163
43	Phase evolution for conversion reaction electrodes in lithium-ion batteries. Nature Communications, 2014, 5, 3358.	12.8	163
44	Three-Dimensional Tracking and Visualization of Hundreds of Ptâ^'Co Fuel Cell Nanocatalysts During Electrochemical Aging. Nano Letters, 2012, 12, 4417-4423.	9.1	162
45	Revealing the Atomic Restructuring of Ptâ€“Co Nanoparticles. Nano Letters, 2014, 14, 3203-3207.	9.1	162
46	Atomic-Resolution Spectroscopic Imaging of Ensembles of Nanocatalyst Particles Across the Life of a Fuel Cell. Nano Letters, 2012, 12, 490-497.	9.1	161
47	Fluorine-Anion-Modulated Electron Structure of Nickel Sulfide Nanosheet Arrays for Alkaline Hydrogen Evolution. ACS Energy Letters, 2019, 4, 2905-2912.	17.4	159
48	Three-dimensional crossbar arrays of self-rectifying Si/SiO2/Si memristors. Nature Communications, 2017, 8, 15666.	12.8	153
49	Regioselective surface encoding of nanoparticles for programmable self-assembly. Nature Materials, 2019, 18, 169-174.	27.5	153
50	Modulating Singleâ€Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. Angewandte Chemie - International Edition, 2021, 60, 345-350.	13.8	150
51	A single-atom library for guided monometallic and concentration-complex multimetallic designs. Nature Materials, 2022, 21, 681-688.	27.5	145
52	Constructing FeN4/graphitic nitrogen atomic interface for high-efficiency electrochemical CO2 reduction over a broad potential window. CheM, 2021, 7, 1297-1307.	11.7	133
53	Facet Control of Gold Nanorods. ACS Nano, 2016, 10, 2960-2974.	14.6	131
54	Ultrahighâ€Rate and Longâ€Life Zincâ€“Metal Anodes Enabled by Selfâ€Accelerated Cation Migration. Advanced Energy Materials, 2021, 11, 2100982.	19.5	131

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55	One-Nanometer-Thick Pt₃Ni Bimetallic Alloy Nanowires Advanced Oxygen Reduction Reaction: Integrating Multiple Advantages into One Catalyst. ACS Catalysis, 2019, 9, 4488-4494.	11.2	126
56	Depth-Dependent Redox Behavior of LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂. Journal of the Electrochemical Society, 2018, 165, A696-A704.	2.9	123
57	Sodiation Kinetics of Metal Oxide Conversion Electrodes: A Comparative Study with Lithiation. Nano Letters, 2015, 15, 5755-5763.	9.1	122
58	Trifunctional Singleâ€Atomic Ru Sites Enable Efficient Overall Water Splitting and Oxygen Reduction in Acidic Media. Small, 2020, 16, e2002888.	10.0	120
59	Mesoporous CNT@TiO2-C Nanocable with Extremely Durable High Rate Capability for Lithium-Ion Battery Anodes. Scientific Reports, 2014, 4, 3729.	3.3	116
60	In Situ Observation of Oscillatory Growth of Bismuth Nanoparticles. Nano Letters, 2012, 12, 1470-1474.	9.1	114
61	Self-assembled V2O5 nanosheets/reduced graphene oxide hierarchical nanocomposite as a high-performance cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 10814.	10.3	114
62	From a ZIF-8 polyhedron to three-dimensional nitrogen doped hierarchical porous carbon: an efficient electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 10731-10739.	10.3	111
63	Deciphering the Cathodeâ€"Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. Advanced Energy Materials, 2018, 8, 1801975.	19.5	111
64	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. Chemistry of Materials, 2019, 31, 9769-9776.	6.7	110
65	Block Copolymer Self-Assemblyâ€"Directed Single-Crystal Homo- and Heteroepitaxial Nanostructures. Science, 2010, 330, 214-219.	12.6	108
66	Chemical and Structural Stability of Lithium-Ion Battery Electrode Materials under Electron Beam. Scientific Reports, 2014, 4, 5694.	3.3	108
67	Calcite Prisms from Mollusk Shells (Atrina Rigida): Swissâ€cheeseâ€like Organicâ€"Inorganic Singleâ€crystal Composites. Advanced Functional Materials, 2011, 21, 2028-2034.	14.9	104
68	Data Processing for Atomic Resolution Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2012, 18, 667-675.	0.4	103
69	Coupled s-p-d Exchange in Facet-Controlled Pd3Pb Tripods Enhances Oxygen Reduction Catalysis. CheM, 2018, 4, 359-371.	11.7	100
70	Optimizing the ORR activity of Pd based nanocatalysts by tuning their strain and particle size. Journal of Materials Chemistry A, 2017, 5, 9867-9872.	10.3	98
71	Heteroatom (P, B, or S) incorporated NiFe-based nanocubes as efficient electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 7062-7069.	10.3	98
72	High-Performance Nitrogen-Doped Intermetallic PtNi Catalyst for the Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 10637-10645.	11.2	98

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73	Transitions from Near-Surface to Interior Redox upon Lithiation in Conversion Electrode Materials. Nano Letters, 2015, 15, 1437-1444.	9.1	97
74	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. Angewandte Chemie, 2019, 131, 2343-2347.	2.0	95
75	Local Modulation of Single-Atomic Mn Sites for Enhanced Ambient Ammonia Electrosynthesis. ACS Catalysis, 2021, 11, 509-516.	11.2	93
76	One-pot synthesis of carbon coated-SnO2/graphene-sheet nanocomposite with highly reversible lithium storage capability. Journal of Power Sources, 2013, 232, 152-158.	7.8	91
77	Liquid-Like, Self-Healing Aluminum Oxide during Deformation at Room Temperature. Nano Letters, 2018, 18, 2492-2497.	9.1	91
78	Comparison between Dealloyed PtCo₃ and PtCu₃ Cathode Catalysts for Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2012, 116, 19877-19885.	3.1	90
79	Design of Ru-Ni diatomic sites for efficient alkaline hydrogen oxidation. Science Advances, 2022, 8, .	10.3	89
80	Revealing Correlation of Valence State with Nanoporous Structure in Cobalt Catalyst Nanoparticles by In Situ Environmental TEM. ACS Nano, 2012, 6, 4241-4247.	14.6	84
81	Electronic Tuning of Metal Nanoparticles for Highly Efficient Photocatalytic Hydrogen Peroxide Production. ACS Catalysis, 2019, 9, 626-631.	11.2	84
82	Effects of cathode electrolyte interfacial (CEI) layer on long term cycling of all-solid-state thin-film batteries. Journal of Power Sources, 2016, 324, 342-348.	7.8	82
83	Garnet Electrolyte Surface Degradation and Recovery. ACS Applied Energy Materials, 2018, 1, 7244-7252.	5.1	81
84	Structure evolution of PtCu nanoframes from disordered to ordered for the oxygen reduction reaction. Applied Catalysis B: Environmental, 2021, 282, 119617.	20.2	80
85	SnS2 nanoparticle loaded graphene nanocomposites for superior energy storage. Physical Chemistry Chemical Physics, 2012, 14, 6981.	2.8	79
86	Aberration-corrected ADF-STEM depth sectioning and prospects for reliable 3D imaging in S/TEM. Journal of Electron Microscopy, 2009, 58, 157-165.	0.9	77
87	Recent Progress on Mesoporous Carbon Materials for Advanced Energy Conversion and Storage. Particle and Particle Systems Characterization, 2014, 31, 515-539.	2.3	77
88	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. ACS Catalysis, 2020, 10, 9977-9985.	11.2	75
89	Characterization of the structure and chemistry of the solidâ€“electrolyte interface by cryo-EM leads to high-performance solid-state Li-metal batteries. Nature Nanotechnology, 2022, 17, 768-776.	31.5	75
90	Supramolecular gel-assisted synthesis of double shelled Co@CoO@Nâ€“C/C nanoparticles with synergistic electrocatalytic activity for the oxygen reduction reaction. Nanoscale, 2016, 8, 4681-4687.	5.6	74

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91	Activating Edge-Mo of 2H-MoS₂ via Coordination with Pyridinic Nâ€“C for pH-Universal Hydrogen Evolution Electrocatalysis. ACS Catalysis, 2021, 11, 4486-4497.	11.2	74
92	Sulphur modulated Ni3FeN supported on N/S co-doped graphene boosts rechargeable/flexible Zn-air battery performance. Applied Catalysis B: Environmental, 2020, 274, 119086.	20.2	73
93	Coalescence in the Thermal Annealing of Nanoparticles: An in Situ STEM Study of the Growth Mechanisms of Ordered Ptâ€“Fe Nanoparticles in a KCl Matrix. Chemistry of Materials, 2013, 25, 1436-1442.	6.7	72
94	In SituTEM Study of Catalytic Nanoparticle Reactions in Atmospheric Pressure Gas Environment. Microscopy and Microanalysis, 2013, 19, 1558-1568.	0.4	72
95	Giant Magnetoresistive Phosphoric Acid Doped Polyanilineâ€“Silica Nanocomposites. Journal of Physical Chemistry C, 2013, 117, 6426-6436.	3.1	70
96	Hollowâ€Structured Carbonâ€Supported Nickel Cobaltite Nanoparticles as an Efficient Bifunctional Electrocatalyst for the Oxygen Reduction and Evolution Reactions. ChemCatChem, 2016, 8, 736-742.	3.7	70
97	Single-Atom Pt Catalyst for Effective Câ€“F Bond Activation via Hydrodefluorination. ACS Catalysis, 2018, 8, 9353-9358.	11.2	70
98	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. Matter, 2021, 4, 2013-2026.	10.0	69
99	Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. Nature Communications, 2016, 7, 11941.	12.8	67
100	Nitrogen and sulfur co-doping of partially exfoliated MWCNTs as 3-D structured electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 5678-5684.	10.3	66
101	Effects of crystal phase and composition on structurally ordered Ptâ€“Coâ€“Ni/C ternary intermetallic electrocatalysts for the formic acid oxidation reaction. Journal of Materials Chemistry A, 2018, 6, 5848-5855.	10.3	66
102	Atomic rearrangement from disordered to ordered Pd-Fe nanocatalysts with trace amount of Pt decoration for efficient electrocatalysis. Nano Energy, 2018, 50, 70-78.	16.0	66
103	Solutionâ€Grown Organic Singleâ€Crystalline Donorâ€“Acceptor Heterojunctions for Photovoltaics. Angewandte Chemie - International Edition, 2015, 54, 956-960.	13.8	65
104	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. Nature Communications, 2016, 7, 13335.	12.8	65
105	Direct high-resolution mapping of electrocatalytic activity of semi-two-dimensional catalysts with single-edge sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11618-11623.	7.1	65
106	Collective Plasmon Coupling in Gold Nanoparticle Clusters for Highly Efficient Photothermal Therapy. ACS Nano, 2022, 16, 910-920.	14.6	65
107	Explore the Effects of Microstructural Defects on Voltage Fade of Li- and Mn-Rich Cathodes. Nano Letters, 2016, 16, 5999-6007.	9.1	64
108	Boosting the electron mobility of solution-grown organic single crystals via reducing the amount of polar solvent residues. Materials Horizons, 2016, 3, 119-123.	12.2	64

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109	Self-Optimized Ligand Effect in L1₂-PtPdFe Intermetallic for Efficient and Stable Alkaline Hydrogen Oxidation Reaction. ACS Catalysis, 2020, 10, 15207-15216.	11.2	64
110	Shape-Specific Patterning of Polymer-Functionalized Nanoparticles. ACS Nano, 2017, 11, 4995-5002.	14.6	63
111	Analytic derivation of optimal imaging conditions for incoherent imaging in aberration-corrected electron microscopes. Ultramicroscopy, 2008, 108, 1454-1466.	1.9	62
112	An electrochemically stable homogeneous glassy electrolyte formed at room temperature for all-solid-state sodium batteries. Nature Communications, 2022, 13, .	12.8	62
113	Synergistic enhancement of nitrogen and sulfur co-doped graphene with carbon nanosphere insertion for the electrocatalytic oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 7727-7731.	10.3	61
114	Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. Nature Communications, 2019, 10, 1650.	12.8	60
115	Ambipolar charge transport of TIPS-pentacene single-crystals grown from non-polar solvents. Materials Horizons, 2015, 2, 344-349.	12.2	59
116	Nitrogen-doped carbon nanofibers derived from polypyrrole coated bacterial cellulose as high-performance electrode materials for supercapacitors and Li-ion batteries. Electrochimica Acta, 2016, 210, 130-137.	5.2	59
117	Spinel Ferrite Coreâ€“Shell Nanostructures by a Versatile Solvothermal Seed-Mediated Growth Approach and Study of Their Nanointerfaces. ACS Nano, 2017, 11, 7889-7900.	14.6	59
118	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	12.8	59
119	Probing microstructure and phase evolution of Î±-MoO3 nanobelts for sodium-ion batteries by in situ transmission electron microscopy. Nano Energy, 2016, 27, 447-456.	16.0	58
120	Composition-dependent electrocatalytic activities of NiFe-based selenides for the oxygen evolution reaction. Electrochimica Acta, 2018, 291, 64-72.	5.2	58
121	Atomic-resolution spectroscopic imaging of oxide interfaces. Philosophical Magazine, 2010, 90, 4731-4749.	1.6	57
122	In situ TEM probing of crystallization form-dependent sodiation behavior in ZnO nanowires for sodium-ion batteries. Nano Energy, 2016, 30, 771-779.	16.0	57
123	FeMo sub-nanoclusters/single atoms for neutral ammonia electrosynthesis. Nano Energy, 2020, 77, 105078.	16.0	56
124	Depth sectioning of individual dopant atoms with aberration-corrected scanning transmission electron microscopy. Applied Physics Letters, 2008, 92, .	3.3	55
125	Epitaxial Bi₅Ti₃FeO₁₅â€“CoFe₂O₄ Pillarâ€“Matrix Multiferroic Nanostructures. ACS Nano, 2013, 7, 11079-11086.	14.6	55
126	Stabilizing and Activating Metastable Nickel Nanocrystals for Highly Efficient Hydrogen Evolution Electrocatalysis. ACS Nano, 2018, 12, 11625-11631.	14.6	55

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127	Combining structurally ordered intermetallics with N-doped carbon confinement for efficient and anti-poisoning electrocatalysis. Applied Catalysis B: Environmental, 2020, 279, 119370.	20.2	55
128	TEMImageNet training library and AtomSegNet deep-learning models for high-precision atom segmentation, localization, denoising, and deblurring of atomic-resolution images. Scientific Reports, 2021, 11, 5386.	3.3	55
129	Three-dimensional hollow-structured binary oxide particles as an advanced anode material for high-rate and long cycle life lithium-ion batteries. Nano Energy, 2016, 20, 212-220.	16.0	53
130	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 1324-1332.	17.4	53
131	Nanoparticles Incorporated inside Single-Crystals: Enhanced Fluorescent Properties. Chemistry of Materials, 2016, 28, 7537-7543.	6.7	52
132	Accelerated Evolution of Surface Chemistry Determined by Temperature and Cycling History in Nickel-Rich Layered Cathode Materials. ACS Applied Materials & Interfaces, 2018, 10, 23842-23850.	8.0	52
133	One-Pot Synthesis of B/P-Codoped Co-Mo Dual-Nanowafer Electrocatalysts for Overall Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 20024-20033.	8.0	52
134	Rational design of three-dimensional nitrogen and phosphorus co-doped graphene nanoribbons/CNTs composite for the oxygen reduction. Chinese Chemical Letters, 2016, 27, 597-601.	9.0	51
135	Collisions of Ir Oxide Nanoparticles with Carbon Nanopipettes: Experiments with One Nanoparticle. Analytical Chemistry, 2017, 89, 2880-2885.	6.5	51
136	MCM-41 support for ultrasmall Î³-Fe₂O₃ nanoparticles for H₂S removal. Journal of Materials Chemistry A, 2017, 5, 21688-21698.	10.3	51
137	A joint deep learning model to recover information and reduce artifacts in missing-wedge sinograms for electron tomography and beyond. Scientific Reports, 2019, 9, 12803.	3.3	51
138	Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 184-192.	11.2	51
139	Controllable construction of flower-like FeS/Fe2O3 composite for lithium storage. Journal of Power Sources, 2018, 392, 193-199.	7.8	50
140	Sub-nm ruthenium cluster as an efficient and robust catalyst for decomposition and synthesis of ammonia: Break the â€œsize shacklesâ€• Nano Research, 2018, 11, 4774-4785.	10.4	49
141	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and in Situ Transmission Electron Microscopy. ACS Nano, 2018, 12, 7866-7874.	14.6	49
142	Interfacing Solutionâ€Grown C₆₀ and (3â€Pyrrolinium)(CdCl₃) Single Crystals for Highâ€Mobility Transistorâ€Based Memory Devices. Advanced Materials, 2015, 27, 4476-4480.	21.0	48
143	3D hollow structured Co₂FeO₄/MWCNT as an efficient non-precious metal electrocatalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 1601-1608.	10.3	48
144	Atomically Isolated Rh Sites within Highly Branched Rh₂Sb Nanostructures Enhance Bifunctional Hydrogen Electrocatalysis. Advanced Materials, 2021, 33, e2105049.	21.0	48

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145	Nanostructured flexible Mg-modified LiMnPO₄ matrix as high-rate cathode materials for Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 6368-6373.	10.3	47
146	A closer look at the physical and optical properties of gold nanostars: an experimental and computational study. Nanoscale, 2017, 9, 3766-3773.	5.6	47
147	Creating compressive stress at the NiOOH/NiO interface for water oxidation. Journal of Materials Chemistry A, 2020, 8, 10747-10754.	10.3	47
148	Conformal coating of TiO2 nanorods on a 3-D CNT scaffold by using a CNT film as a nanoreactor: a free-standing and binder-free Li-ion anode. Journal of Materials Chemistry A, 2014, 2, 2701.	10.3	46
149	Structurally ordered Ptâ€“Zn/C series nanoparticles as efficient anode catalysts for formic acid electrooxidation. Journal of Materials Chemistry A, 2015, 3, 22129-22135.	10.3	46
150	Elucidating the Limit of Li Insertion into the Spinel Li₄Ti₅O₁₂. , 2019, 1, 96-102.		45
151	Extended Depth of Field for High-Resolution Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2011, 17, 75-80.	0.4	44
152	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. Chemistry of Materials, 2017, 29, 2141-2149.	6.7	44
153	Selective Electrocatalytic Reduction of CO₂ into CO at Small, Thiol-Capped Au/Cu Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 27991-28000.	3.1	44
154	Enhancing surface oxygen retention through theory-guided doping selection in Li_{1â^'x}NiO₂ for next-generation lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 23293-23303.	10.3	44
155	Highly active N-doped carbon encapsulated Pd-Fe intermetallic nanoparticles for the oxygen reduction reaction. Nano Research, 2020, 13, 2365-2370.	10.4	44
156	Modulating Singleâ€Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. Angewandte Chemie, 2021, 133, 349-354.	2.0	44
157	Highly Selective Oxygen Reduction to Hydrogen Peroxide on a Carbon-Supported Single-Atom Pd Electrocatalyst. ACS Catalysis, 2022, 12, 4156-4164.	11.2	44
158	Selective Placement of Faceted Metal Tips on Semiconductor Nanorods. Angewandte Chemie - International Edition, 2013, 52, 980-982.	13.8	43
159	Influence of synthesis conditions on the surface passivation and electrochemical behavior of layered cathode materials. Journal of Materials Chemistry A, 2014, 2, 19833-19840.	10.3	43
160	Atomic-Scale Observation of O1 Faulted Phase-Induced Deactivation of LiNiO₂ at High Voltage. Nano Letters, 2021, 21, 3657-3663.	9.1	43
161	Three-Dimensional Patterning of Nanoparticles by Molecular Stamping. ACS Nano, 2020, 14, 6823-6833.	14.6	42
162	Tuning the electrocatalytic activity of Pt by structurally ordered PdFe/C for the hydrogen oxidation reaction in alkaline media. Journal of Materials Chemistry A, 2018, 6, 11346-11352.	10.3	41

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163	In situ visualization of sodium transport and conversion reactions of FeS2 nanotubes made by morphology engineering. Nano Energy, 2019, 60, 424-431.	16.0	41
164	The sensitive surface chemistry of Co-free, Ni-rich layered oxides: identifying experimental conditions that influence characterization results. Journal of Materials Chemistry A, 2020, 8, 17487-17497.	10.3	41
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