Huolin L Xin

List of Publications by Year
in descending order

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311 papers	30,334 citations	6592 79 h-index	5101 166 g-index
318 all docs	318 docs citations	318 times ranked	30044 citing authors

#	Article	IF	Citations
1	Multicolor Photonic Pigments for Rotationâ€Asymmetric Mechanochromic Devices. Advanced Materials, 2022, 34, e2107398.	11.1	27
2	Collective Plasmon Coupling in Gold Nanoparticle Clusters for Highly Efficient Photothermal Therapy. ACS Nano, 2022, 16, 910-920.	7.3	65
3	Modulating the Electronic Structure of Nickel Sulfide Electrocatalysts by Chlorine Doping toward Highly Efficient Alkaline Hydrogen Evolution. ACS Applied Materials & Interfaces, 2022, 14, 6869-6875.	4.0	25
4	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.	6.6	183
5	Multicolor Photonic Pigments for Rotationâ€Asymmetric Mechanochromic Devices (Adv. Mater. 4/2022). Advanced Materials, 2022, 34, .	11.1	1
6	Highly Selective Oxygen Reduction to Hydrogen Peroxide on a Carbon-Supported Single-Atom Pd Electrocatalyst. ACS Catalysis, 2022, 12, 4156-4164.	5.5	44
7	Accelerated Degradation in a Quasi-Single-Crystalline Layered Oxide Cathode for Lithium-Ion Batteries Caused by Residual Grain Boundaries. Nano Letters, 2022, 22, 3818-3824.	4.5	31
8	Promoting the water dissociation of nickel sulfide electrocatalyst through introducing cationic vacancies for accelerated hydrogen evolution kinetics in alkaline media. Journal of Catalysis, 2022, 410, 112-120.	3.1	14
9	A single-atom library for guided monometallic and concentration-complex multimetallic designs. Nature Materials, 2022, 21, 681-688.	13.3	145
10	An electrochemically stable homogeneous glassy electrolyte formed at room temperature for all-solid-state sodium batteries. Nature Communications, 2022, 13, .	5.8	62
11	Metal-Confined Synthesis of ZnS₂ Monolayer Catalysts for Dinitrogen Electroreduction. ACS Catalysis, 2022, 12, 6809-6815.	5.5	6
12	Design of Ru-Ni diatomic sites for efficient alkaline hydrogen oxidation. Science Advances, 2022, 8, .	4.7	89
13	Ultrafast Preparation of Nonequilibrium FeNi Spinels by Magnetic Induction Heating for Unprecedented Oxygen Evolution Electrocatalysis. Research, 2022, 2022, .	2.8	7
14	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.	15.6	75
15	X-Ray Induced Chemical Reaction Revealed by In Situ X-Ray Diffraction and Scanning X-Ray Microscopy in 15 nm Resolution. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	1.1	0
16	Structure evolution of PtCu nanoframes from disordered to ordered for the oxygen reduction reaction. Applied Catalysis B: Environmental, 2021, 282, 119617.	10.8	80
17	Surface engineering of PdFe ordered intermetallics for efficient oxygen reduction electrocatalysis. Chemical Engineering Journal, 2021, 408, 127297.	6.6	27
18	Modulating Singleâ€Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. Angewandte Chemie, 2021, 133, 349-354.	1.6	44

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19	Polarizationâ€Modulated Multidirectional Photothermal Actuators. Advanced Materials, 2021, 33, e2006367.	11.1	35
20	Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. ACS Catalysis, 2021, 11, 184-192.	5.5	51
21	Modulating Singleâ€Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. Angewandte Chemie - International Edition, 2021, 60, 345-350.	7.2	150
22	Microscopy and Microanalysis 2020 Virtual. Microscopy Today, 2021, 29, 12-14.	0.2	0
23	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.	1.6	55
24	Activating Edge-Mo of 2H-MoS₂ via Coordination with Pyridinic Nâ€“C for pH-Universal Hydrogen Evolution Electrocatalysis. ACS Catalysis, 2021, 11, 4486-4497.	5.5	74
25	Electrolyte Regulating toward Stabilization of Cobalt-Free Ultrahigh-Nickel Layered Oxide Cathode in Lithium-Ion Batteries. ACS Energy Letters, 2021, 6, 1324-1332.	8.8	53
26	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	5.8	59
27	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. Chemical Reviews, 2021, 121, 5986-6056.	23.0	165
28	Atomic-Scale Observation of O1 Faulted Phase-Induced Deactivation of LiNiO₂ at High Voltage. Nano Letters, 2021, 21, 3657-3663.	4.5	43
29	One-Pot Synthesis of B/P-Codoped Co-Mo Dual-Nanowafer Electrocatalysts for Overall Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 20024-20033.	4.0	52
30	Constructing FeN4/graphitic nitrogen atomic interface for high-efficiency electrochemical CO2 reduction over a broad potential window. CheM, 2021, 7, 1297-1307.	5.8	133
31	(Invited) Electro-Chemo-Mechanical Degradation of LiNiO2-Derived High-Ni-Content Cathode Materials. ECS Meeting Abstracts, 2021, MA2021-01, 74-74.	0.0	0
32	Modification of the Coordination Environment of Active Sites on MoC for Highâ€Efficiency CH₄ Production. Advanced Energy Materials, 2021, 11, 2100044.	10.2	21
33	Ultrahighâ€Rate and Longâ€Life Zincâ€“Metal Anodes Enabled by Selfâ€Accelerated Cation Migration. Advanced Energy Materials, 2021, 11, 2100982.	10.2	131
34	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.	5.0	69
35	Super-compression of large electron microscopy time series by deep compressive sensing learning. Patterns, 2021, 2, 100292.	3.1	18
36	TEMImageNet, AtomSegNet and TomoFillNet, open-source libraries and models that enable defect localization in 2D and 3D atomic resolution images. Microscopy and Microanalysis, 2021, 27, 1456-1457.	0.2	1

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37	Synergic grain boundary segregation and precipitation in W- and W-Mo-containing high-entropy borides. Journal of the European Ceramic Society, 2021, 41, 5380-5387.	2.8	23
38	Bulk high-entropy hexaborides. Journal of the European Ceramic Society, 2021, 41, 5775-5781.	2.8	22
39	In-situ TEM revisiting NH4V4O10 to unveil the unknown sodium storage mechanism as an anode material. Nano Energy, 2021, 87, 106182.	8.2	10
40	Atomically Isolated Rh Sites within Highly Branched Rh₂Sb Nanostructures Enhance Bifunctional Hydrogen Electrocatalysis. Advanced Materials, 2021, 33, e2105049.	11.1	48
41	On the synthesis of bi-magnetic manganese ferrite-based coreâ€“shell nanoparticles. Nanoscale Advances, 2021, 3, 1612-1623.	2.2	11
42	Local Modulation of Single-Atomic Mn Sites for Enhanced Ambient Ammonia Electrosynthesis. ACS Catalysis, 2021, 11, 509-516.	5.5	93
43	3D atomic imaging of low-coordinated active sites in solid-state dealloyed hierarchical nanoporous gold. Journal of Materials Chemistry A, 2021, 9, 25513-25521.	5.2	3
44	Self-Limitations of Heat Release in Coupled Core-Shell Spinel Ferrite Nanoparticles: Frequency, Time, and Temperature Dependencies. Nanomaterials, 2021, 11, 2848.	1.9	5
45	Probing Activities of Individual Catalytic Nanoflakes by Tunneling Mode of Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2021, 125, 25525-25532.	1.5	7
46	Chemomechanically Stable Ultrahigh-Ni Single-Crystalline Cathodes with Improved Oxygen Retention and Delayed Phase Degradations. Nano Letters, 2021, 21, 9797-9804.	4.5	38
47	Hydrophobic Molecule Monolayer Brush-Tethered Zinc Anodes for Aqueous Zinc Batteries. ACS Applied Materials & Interfaces, 2021, 13, 60092-60098.	4.0	18
48	Ultrafine SmMn2O5-Î´ electrocatalysts with modest oxygen deficiency for highly-efficient pH-neutral magnesium-air batteries. Journal of Power Sources, 2020, 449, 227482.	4.0	24
49	Three-Dimensional Atomic Structure of Grain Boundaries Resolved by Atomic-Resolution Electron Tomography. Matter, 2020, 3, 1999-2011.	5.0	34
50	Atomic Modulation Engineering of Hexagon-Shaped CeO₂ Nanocrystals by In Situ Sculpturing of an Electron Beam. Journal of Physical Chemistry C, 2020, 124, 17006-17014.	1.5	3
51	Trifunctional Singleâ€Atomic Ru Sites Enable Efficient Overall Water Splitting and Oxygen Reduction in Acidic Media. Small, 2020, 16, e2002888.	5.2	120
52	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. ACS Catalysis, 2020, 10, 9977-9985.	5.5	75
53	Combining structurally ordered intermetallics with N-doped carbon confinement for efficient and anti-poisoning electrocatalysis. Applied Catalysis B: Environmental, 2020, 279, 119370.	10.8	55
54	A disordered rock salt anode for fast-charging lithium-ion batteries. Nature, 2020, 585, 63-67.	13.7	326

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55	Compositionâ€Tunable Antiperovskite Cu_xIn_{1â^'x}NNi₃ as Superior Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie, 2020, 132, 17641-17646.	1.6	7
56	High-Performance Nitrogen-Doped Intermetallic PtNi Catalyst for the Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 10637-10645.	5.5	98
57	Diatomiteâ€Derived Hierarchical Porous Crystallineâ€AmorphousNetwork for Highâ€Performance and Sustainable Si Anodes. Advanced Functional Materials, 2020, 30, 2005956.	7.8	36
58	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.	5.2	41
59	Modulation of Single-Atom Metal Sites for Enhanced Ambient Ammonia Electrosynthesis. Microscopy and Microanalysis, 2020, 26, 2794-2796.	0.2	1
60	0.7â€‰Ã… Resolution Electron Tomography Enabled by Deepâ€Learningâ€Aided Information Recovery. Advanced Intelligent Systems, 2020, 2, 2000152.	3.3	22
61	Self-Optimized Ligand Effect in L1₂-PtPdFe Intermetallic for Efficient and Stable Alkaline Hydrogen Oxidation Reaction. ACS Catalysis, 2020, 10, 15207-15216.	5.5	64
62	AtomSegNet and TomoFillNetâ€”Two Deep Learning Open-Source Apps for Superresolution Processing of Atomic Resolution Images and Missing-wedge Information Inpainting in Electron Tomograms. Microscopy and Microanalysis, 2020, 26, 926-926.	0.2	1
63	Atomic-configuration Modulation of Active Sites on Electrocatalysts. Microscopy and Microanalysis, 2020, 26, 3014-3014.	0.2	0
64	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.	5.2	44
65	Electronic structure and oxophilicity optimization of mono-layer Pt for efficient electrocatalysis. Nano Energy, 2020, 74, 104877.	8.2	39
66	Sulphur modulated Ni3FeN supported on N/S co-doped graphene boosts rechargeable/flexible Zn-air battery performance. Applied Catalysis B: Environmental, 2020, 274, 119086.	10.8	73
67	Three-Dimensional Patterning of Nanoparticles by Molecular Stamping. ACS Nano, 2020, 14, 6823-6833.	7.3	42
68	Valence-programmable nanoparticle architectures. Nature Communications, 2020, 11, 2279.	5.8	37
69	Coupled hardâ€“soft spinel ferrite-based coreâ€“shell nanoarchitectures: magnetic properties and heating abilities. Nanoscale Advances, 2020, 2, 3191-3201.	2.2	32
70	Creating compressive stress at the NiOOH/NiO interface for water oxidation. Journal of Materials Chemistry A, 2020, 8, 10747-10754.	5.2	47
71	Stable and Efficient Single-Atom Zn Catalyst for CO₂ Reduction to CH₄. Journal of the American Chemical Society, 2020, 142, 12563-12567.	6.6	358
72	Highly active N-doped carbon encapsulated Pd-Fe intermetallic nanoparticles for the oxygen reduction reaction. Nano Research, 2020, 13, 2365-2370.	5.8	44

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73	Compositionâ€Tunable Antiperovskite Cu_xIn_{1â€“x}NNi₃ as Superior Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2020, 59, 17488-17493.	7.2	39
74	Ligand-Assisted Solid-State Transformation of Nanoparticles. Chemistry of Materials, 2020, 32, 3271-3277.	3.2	13
75	FeMo sub-nanoclusters/single atoms for neutral ammonia electrosynthesis. Nano Energy, 2020, 77, 105078.	8.2	56
76	Ordered three-dimensional nanomaterials using DNA-prescribed and valence-controlled material voxels. Nature Materials, 2020, 19, 789-796.	13.3	172
77	Promoting H2O2 production via 2-electron oxygen reduction by coordinating partially oxidized Pd with defect carbon. Nature Communications, 2020, 11, 2178.	5.8	209
78	Nanoscale x-ray and electron tomography. MRS Bulletin, 2020, 45, 264-271.	1.7	12
79	Optimizing electron density of nickel sulfide electrocatalysts through sulfur vacancy engineering for alkaline hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 18207-18214.	5.2	31
80	Artificial Intelligence Enabled Information Inpainting and Artifact Removal for Electron Tomography. Microscopy and Microanalysis, 2020, 26, 664-665.	0.2	2
81	In Situ Visualization of Structural Evolution and Fissure Breathing in (De)lithiated H₂V₃O₈ Nanorods. ACS Energy Letters, 2019, 4, 2081-2090.	8.8	19
82	Diagnostic Study of Lithium-Rich Cathode Materials at Primary and Sub-Primary Particle Level by Using Chemical-Sensitive STEM Tomography, Aberration-Corrected Imaging and EELS. Microscopy and Microanalysis, 2019, 25, 2056-2057.	0.2	0
83	Scalable synthesis of dispersible iron carbide (Fe3C) nanoparticles by â€˜nanocastingâ€™. Journal of Materials Chemistry A, 2019, 7, 19506-19512.	5.2	19
84	Supercluster-Coupled Crystal Growth in Metallic Glass Forming Liquids. Microscopy and Microanalysis, 2019, 25, 1410-1411.	0.2	0
85	Fluorine-Anion-Modulated Electron Structure of Nickel Sulfide Nanosheet Arrays for Alkaline Hydrogen Evolution. ACS Energy Letters, 2019, 4, 2905-2912.	8.8	159
86	High-Angular Splitting Electron Vortex Beams Generated by Topological Defects. Microscopy and Microanalysis, 2019, 25, 88-89.	0.2	3
87	In-Situ Observation of Concurrent Oxidation and Mechanical Deformation in Al and Zr. Microscopy and Microanalysis, 2019, 25, 1912-1913.	0.2	0
88	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.	1.6	51
89	Ultrasensitive Detection of Dopamine with Carbon Nanopipets. Analytical Chemistry, 2019, 91, 12935-12941.	3.2	33
90	Targeted Surface Doping with Reversible Local Environment Improves Oxygen Stability at the Electrochemical Interfaces of Nickel-Rich Cathode Materials. ACS Applied Materials & Interfaces, 2019, 11, 37885-37891.	4.0	33

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91	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.	3.3	65
92	Elucidating the Limit of Li Insertion into the Spinel Li₄Ti₅O₁₂. , 2019, 1, 96-102.		45
93	Atomic-level tunnel engineering of todorokite MnO2 for precise evaluation of lithium storage mechanisms by in situ transmission electron microscopy. Nano Energy, 2019, 63, 103840.	8.2	17
94	Structural Degradation of Layered Cathode Materials in Lithium-Ion Batteries Induced by Ball Milling. Journal of the Electrochemical Society, 2019, 166, A1964-A1971.	1.3	28
95	Conversion of CO₂ on a highly active and stable Cu/FeO_x/CeO₂ catalyst: tuning catalytic performance by oxide-oxide interactions. Catalysis Science and Technology, 2019, 9, 3735-3742.	2.1	28
96	Organic Heterojunctions Formed by Interfacing Two Single Crystals from a Mixed Solution. Journal of the American Chemical Society, 2019, 141, 10007-10015.	6.6	31
97	In Situ Visualization of Interfacial Sodium Transport and Electrochemistry between Fewâ€Layer Phosphorene. Small Methods, 2019, 3, 1900061.	4.6	15
98	Quantification of Charge Transfer at the Interfaces of Oxide Thin Films. Journal of Physical Chemistry A, 2019, 123, 4632-4637.	1.1	5
99	Rational synthesis and electrochemical performance of LiVOPO₄ polymorphs. Journal of Materials Chemistry A, 2019, 7, 8423-8432.	5.2	20
100	In situ visualization of sodium transport and conversion reactions of FeS2 nanotubes made by morphology engineering. Nano Energy, 2019, 60, 424-431.	8.2	41
101	Anomalous metal segregation in lithium-rich material provides design rules for stable cathode in lithium-ion battery. Nature Communications, 2019, 10, 1650.	5.8	60
102	One-Nanometer-Thick Pt₃Ni Bimetallic Alloy Nanowires Advanced Oxygen Reduction Reaction: Integrating Multiple Advantages into One Catalyst. ACS Catalysis, 2019, 9, 4488-4494.	5.5	126
103	Atomistic Defect Makes a Phase Plate for the Generation and High-Angular Splitting of Electron Vortex Beams. ACS Nano, 2019, 13, 3964-3970.	7.3	3
104	Supercluster-coupled crystal growth in metallic glass forming liquids. Nature Communications, 2019, 10, 915.	5.8	30
105	Highly Active and Stable Carbon Nanosheets Supported Iron Oxide for Fischerâ€Tropsch to Olefins Synthesis. ChemCatChem, 2019, 11, 1625-1632.	1.8	8
106	Unusual strain effect of a Pt-based L1₀ face-centered tetragonal core in core/shell nanoparticles for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2019, 21, 6477-6484.	1.3	22
107	TEM-Assisted Fabrication of Sub-10 nm Scanning Electrochemical Microscopy Tips. Analytical Chemistry, 2019, 91, 15355-15359.	3.2	16
108	Optimizing PtFe intermetallics for oxygen reduction reaction: from DFT screening to in situ XAFS characterization. Nanoscale, 2019, 11, 20301-20306.	2.8	33

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109	Dopant Distribution in Co-Free High-Energy Layered Cathode Materials. Chemistry of Materials, 2019, 31, 9769-9776.	3.2	110
110	Amorphization activated ruthenium-tellurium nanorods for efficient waterÂsplitting. Nature Communications, 2019, 10, 5692.	5.8	312
111	Electronic Tuning of Metal Nanoparticles for Highly Efficient Photocatalytic Hydrogen Peroxide Production. ACS Catalysis, 2019, 9, 626-631.	5.5	84
112	Memristor crossbar arrays with 6-nm half-pitch and 2-nm critical dimension. Nature Nanotechnology, 2019, 14, 35-39.	15.6	381
113	InnenrÃ¼cktitelbild: Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation (Angew. Chem. 8/2019). Angewandte Chemie, 2019, 131, 2547-2547.	1.6	7
114	Ptâ€“Ni Seed-Core-Frame Hierarchical Nanostructures and Their Conversion to Nanoframes for Enhanced Methanol Electro-Oxidation. Catalysts, 2019, 9, 39.	1.6	8
115	Bimetallic synergy in cobaltâ€“palladium nanocatalysts for CO oxidation. Nature Catalysis, 2019, 2, 78-85.	16.1	195
116	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. Angewandte Chemie - International Edition, 2019, 58, 2321-2325.	7.2	543
117	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. Angewandte Chemie, 2019, 131, 2343-2347.	1.6	95
118	Regioselective surface encoding of nanoparticles for programmable self-assembly. Nature Materials, 2019, 18, 169-174.	13.3	153
119	(Invited) Evolution of Redox Couples in Li- and Mn-Rich Cathode Materials and Mitigation of Voltage Fade by Reducing Oxygen Release. ECS Meeting Abstracts, 2019, , .	0.0	0
120	Recent Advances of Structurally Ordered Intermetallic Nanoparticles for Electrocatalysis. ACS Catalysis, 2018, 8, 3237-3256.	5.5	245
121	Anomalous Conductivity Tailored by Domain-Boundary Transport in Crystalline Bismuth Vanadate Photoanodes. Chemistry of Materials, 2018, 30, 1677-1685.	3.2	35
122	Liquid-Like, Self-Healing Aluminum Oxide during Deformation at Room Temperature. Nano Letters, 2018, 18, 2492-2497.	4.5	91
123	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.	5.2	66
124	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. Nano Letters, 2018, 18, 3241-3249.	4.5	237
125	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.	5.8	49
126	Growth of Nanoparticles with Desired Catalytic Functions by Controlled Doping-Segregation of Metal in Oxide. Chemistry of Materials, 2018, 30, 1585-1592.	3.2	11

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127	Coupled s-p-d Exchange in Facet-Controlled Pd3Pb Tripods Enhances Oxygen Reduction Catalysis. CheM, 2018, 4, 359-371.	5.8	100
128	Correction to Porous Structured Niâ€“Feâ€“P Nanocubes Derived from a Prussian Blue Analogue as an Electrocatalyst for Efficient Overall Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 3152-3152.	4.0	3
129	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.	5.2	111
130	Depth-Dependent Redox Behavior of LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂. Journal of the Electrochemical Society, 2018, 165, A696-A704.	1.3	123
131	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.	5.2	98
132	Dendritic Coreâ€Frame and Frame Multimetallic Rhombic Dodecahedra: A Comparison Study of Composition and Structure Effects on Electrocatalysis of Methanol Oxidation. ChemNanoMat, 2018, 4, 76-87.	1.5	11
133	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.	6.6	476
134	Deep Learning Based Atom Segmentation and Noise and Missing-Wedge Reduction for Electron Tomography. Microscopy and Microanalysis, 2018, 24, 504-505.	0.2	7
135	Deciphering the Cathodeâ€“Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. Advanced Energy Materials, 2018, 8, 1801975.	10.2	111
136	Tailoring Surface Opening of Hollow Nanocubes and Their Application as Nanocargo Carriers. ACS Central Science, 2018, 4, 1742-1750.	5.3	13
137	Garnet Electrolyte Surface Degradation and Recovery. ACS Applied Energy Materials, 2018, 1, 7244-7252.	2.5	81
138	Composition-dependent electrocatalytic activities of NiFe-based selenides for the oxygen evolution reaction. Electrochimica Acta, 2018, 291, 64-72.	2.6	58
139	Stabilizing and Activating Metastable Nickel Nanocrystals for Highly Efficient Hydrogen Evolution Electrocatalysis. ACS Nano, 2018, 12, 11625-11631.	7.3	55
140	Single-Atom Pt Catalyst for Effective Câ€“F Bond Activation via Hydrodefluorination. ACS Catalysis, 2018, 8, 9353-9358.	5.5	70
141	Retrieving the energy-loss function from valence electron energy-loss spectrum: Separation of bulk-, surface-losses and Cherenkov radiation. Ultramicroscopy, 2018, 194, 175-181.	0.8	8
142	Atomic rearrangement from disordered to ordered Pd-Fe nanocatalysts with trace amount of Pt decoration for efficient electrocatalysis. Nano Energy, 2018, 50, 70-78.	8.2	66
143	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.	5.2	41
144	Investigation of the multiplet features of SrTiO₃in X-ray absorption spectra based on configuration interaction calculations. Journal of Synchrotron Radiation, 2018, 25, 777-784.	1.0	10

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145	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.	19.8	675
146	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and in Situ Transmission Electron Microscopy. ACS Nano, 2018, 12, 7866-7874.	7.3	49
147	Controllable construction of flower-like FeS/Fe2O3 composite for lithium storage. Journal of Power Sources, 2018, 392, 193-199.	4.0	50
148	Selective Electrocatalytic Reduction of CO₂ into CO at Small, Thiol-Capped Au/Cu Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 27991-28000.	1.5	44
149	Charge Transport Modulation in PbSe Nanocrystal Solids by Au_xAg_{1â€“x} Nanoparticle Doping. ACS Nano, 2018, 12, 9091-9100.	7.3	20
150	Achieving High Cycling Rates via In Situ Generation of Active Nanocomposite Metal Anodes. ACS Applied Energy Materials, 2018, 1, 4651-4661.	2.5	19
151	Visualizing the toughening origins of gel-grown calcite single-crystal composites. Chinese Chemical Letters, 2018, 29, 1666-1670.	4.8	12
152	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.	4.0	52
153	Investigation of Degradation Pathway in High Ni-Content Cathode Materials at Primary and Secondary Particle Level By Multi-Scale Characterization. ECS Meeting Abstracts, 2018, , .	0.0	0
154	Anatomy of Ag/Hafniaâ€Based Selectors with 10¹⁰ Nonlinearity. Advanced Materials, 2017, 29, 1604457.	11.1	292
155	A closer look at the physical and optical properties of gold nanostars: an experimental and computational study. Nanoscale, 2017, 9, 3766-3773.	2.8	47
156	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.	3.2	44
157	Collisions of Ir Oxide Nanoparticles with Carbon Nanopipettes: Experiments with One Nanoparticle. Analytical Chemistry, 2017, 89, 2880-2885.	3.2	51
158	A general approach for the direct fabrication of metal oxide-based electrocatalysts for efficient bifunctional oxygen electrodes. Sustainable Energy and Fuels, 2017, 1, 823-831.	2.5	24
159	Optimizing the ORR activity of Pd based nanocatalysts by tuning their strain and particle size. Journal of Materials Chemistry A, 2017, 5, 9867-9872.	5.2	98
160	Shape-Specific Patterning of Polymer-Functionalized Nanoparticles. ACS Nano, 2017, 11, 4995-5002.	7.3	63
161	Intermediate selectivity in the oxidation of phenols using plasmonic Au/ZnO photocatalysts. Nanoscale, 2017, 9, 9359-9364.	2.8	8
162	High-rate and long-life lithium-ion battery performance of hierarchically hollow-structured NiCo2O4/CNT nanocomposite. Electrochimica Acta, 2017, 244, 8-15.	2.6	39

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