Minhua Shao

List of Publications by Year
in descending order

182 papers	18,837 citations	14655 66 h-index	12597 132 g-index
185 all docs	185 docs citations	185 times ranked	17123 citing authors

#	Article	IF	Citations
1	Grain Boundaries Engineering of Hollow Copper Nanoparticles Enables Highly Efficient Ammonia Electrosynthesis from Nitrate. CCS Chemistry, 2022, 4, 2053-2064.	7.8	38
2	Hierarchical 3D porous carbon with facilely accessible Feâ€“N₄ single-atom sites for Znâ€“air batteries. Journal of Materials Chemistry A, 2022, 10, 5925-5929.	10.3	37
3	Revealing the Twoâ€Dimensional Surface Diffusion Mechanism for Zinc Dendrite Formation on Zinc Anode. Small, 2022, 18, e2104148.	10.0	66
4	Research progress of metal organic frameworks and their derivatives for adsorption of anions in water: A review. Environmental Research, 2022, 204, 112381.	7.5	33
5	One-dimensional screw-like MoS2 with oxygen partially replacing sulfur as an electrocatalyst for the N2 reduction reaction. Chemical Engineering Journal, 2022, 433, 134504.	12.7	32
6	Heterogeneous Bimetallic Organic Coordination Polymer-Derived Co/Fe@NC Bifunctional Catalysts for Rechargeable Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5459-5467.	8.0	19
7	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.	13.7	42
8	Electrochemical nitrogen reduction: an intriguing but challenging quest. Trends in Chemistry, 2022, 4, 142-156.	8.5	24
9	Pyromellitic diimide based bipolar molecule for total organic symmetric redox flow battery. Nano Energy, 2022, 94, 106963.	16.0	15
10	Electrolyte pH-dependent hydrogen binding energies and coverages on platinum, iridium, rhodium, and ruthenium surfaces. Catalysis Science and Technology, 2022, 12, 3228-3233.	4.1	10
11	Triathlete for the Oxygen Reduction Reaction in Zincâ€“Air Fuel Cells. Macromolecules, 2022, 55, 2524-2532.	4.8	1
12	Organic frameworks confined Cu single atoms and nanoclusters for tandem electrocatalytic CO₂ reduction to methane. SmartMat, 2022, 3, 183-193.	10.7	35
13	Encapsulating sulphur inside MagnÃ©li phase <scp>Ti₄O₇</scp> nanotube array for high performance lithium sulphur battery cathode. Canadian Journal of Chemical Engineering, 2022, 100, 2417-2431.	1.7	3
14	Enabling efficient electrocatalytic conversion of N2 to NH3 by Ti3C2 MXene loaded with semi-metallic 1Tâ€²-MoS2 nanosheets. Applied Catalysis B: Environmental, 2022, 310, 121277.	20.2	54
15	Separators Based on the Dynamic Tipâ€Occupying Electrostatic Shield Effect for Dendriteâ€Free Lithiumâ€Metal Batteries. Advanced Sustainable Systems, 2022, 6, 2100386.	5.3	1
16	Preparation of Au@Pd Coreâ€“Shell Nanorods with fcc-2H-fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation. Journal of the American Chemical Society, 2022, 144, 547-555.	13.7	88
17	Theoretical Screening of Transition Metalâ€“N₄-Doped Graphene for Electroreduction of Nitrate. ACS Catalysis, 2022, 12, 5407-5415.	11.2	43
18	Applications of biomass-based materials to remove fluoride from wastewater: A review. Chemosphere, 2022, 301, 134679.	8.2	25

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19	Enhanced catalysis of radical-to-polysulfide interconversion via increased sulfur vacancies in lithiumâ€“sulfur batteries. Chemical Science, 2022, 13, 6224-6232.	7.4	32
20	Synergistic Enhancement of Electrocatalytic Nitrogen Reduction over Few-Layer MoSe₂-Decorated Ti₃C₂T_x MXene. ACS Catalysis, 2022, 12, 6385-6393.	11.2	33
21	Heterostructuring 2D TiO2 nanosheets in situ grown on Ti3C2T MXene to improve the electrocatalytic nitrogen reduction. Chinese Journal of Catalysis, 2022, 43, 1937-1944.	14.0	25
22	Atomically dispersed Pt and Fe sites and Ptâ€“Fe nanoparticles for durable proton exchange membrane fuel cells. Nature Catalysis, 2022, 5, 503-512.	34.4	155
23	Vacancy and Composition Engineering of Manganese Hexacyanoferrate for Sodium-Ion Storage. ACS Applied Energy Materials, 2022, 5, 8547-8553.	5.1	5
24	Full atomistic mechanism study of hydrogen evolution reaction on Pt surfaces at universal pHs: Ab initio simulations at electrochemical interfaces. Electrochimica Acta, 2022, 425, 140709.	5.2	9
25	Constructing a multi-bishelled cobalt-based electrocatalyst for the oxygen evolution reaction in CO2 electrolysis. NPG Asia Materials, 2022, 14, .	7.9	9
26	Bismuth Ferrite as an Electrocatalyst for the Electrochemical Nitrate Reduction. Nano Letters, 2022, 22, 5600-5606.	9.1	35
27	Oxygen Vacancy Engineering in Titanium Dioxide for Sodium Storage. Chemistry - an Asian Journal, 2021, 16, 3-19.	3.3	27
28	Poly-active centric Co3O4-CeO2/Co-N-C composites as superior oxygen reduction catalysts for Zn-air batteries. Science China Materials, 2021, 64, 73-84.	6.3	27
29	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.	13.8	122
30	An Ionâ€Imprinting Derived Strategy to Synthesize Singleâ€Atom Iron Electrocatalysts for Oxygen Reduction. Small, 2021, 17, e2004454.	10.0	52
31	Approaching a high-rate and sustainable production of hydrogen peroxide: oxygen reduction on Coâ€“Nâ€“C single-atom electrocatalysts in simulated seawater. Energy and Environmental Science, 2021, 14, 5444-5456.	30.8	126
32	Reaction intermediate-mediated electrocatalyst synthesis favors specified facet and defect exposure for efficient nitrateâ€“ammonia conversion. Energy and Environmental Science, 2021, 14, 4989-4997.	30.8	145
33	Theoretically probing the possible degradation mechanisms of an FeNC catalyst during the oxygen reduction reaction. Chemical Science, 2021, 12, 12476-12484.	7.4	42
34	Hydrazine Detection during Ammonia Electro-oxidation Using an Aggregation-Induced Emission Dye. Journal of the American Chemical Society, 2021, 143, 2433-2440.	13.7	41
35	â€œSuperaerophobicâ€•NiCo bimetallic phosphides for highly efficient hydrogen evolution reaction electrocatalysts. Chemical Communications, 2021, 57, 6173-6176.	4.1	13
36	Lattice-matching Ni-based scaffold with a spongy cover for uniform electric field against lithium dendrites. Chemical Communications, 2021, 57, 9442-9445.	4.1	5

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37	Cu3PdxN nanocrystals for efficient CO2 electrochemical reduction to methane. Electrochimica Acta, 2021, 371, 137793.	5.2	6
38	Recent Advances in Electrocatalysts for Proton Exchange Membrane Fuel Cells and Alkaline Membrane Fuel Cells. Advanced Materials, 2021, 33, e2006292.	21.0	300
39	Recent Advances in Catalyst Structure and Composition Engineering Strategies for Regulating CO₂ Electrochemical Reduction. Advanced Materials, 2021, 33, e2005484.	21.0	100
40	Solid-State Synthesis of Highly Dispersed Nitrogen-Coordinated Single Iron Atom Electrocatalysts for Proton Exchange Membrane Fuel Cells. Nano Letters, 2021, 21, 3633-3639.	9.1	32
41	Bipolar Diimide Based Molecule for Nonaqueous Symmetric Redox Flow Battery. ECS Meeting Abstracts, 2021, MA2021-01, 228-228.	0.0	1
42	Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Znâ€“Air Batteries. Nano Letters, 2021, 21, 4508-4515.	9.1	89
43	Semiâ€metal <scp>1T</scp>â€² phase <scp>MoS₂</scp> nanosheets for promoted electrocatalytic nitrogen reduction. EcoMat, 2021, 3, e12122.	11.9	15
44	Dualâ€Phasic Carbon with Co Single Atoms and Nanoparticles as a Bifunctional Oxygen Electrocatalyst for Rechargeable Znâ€“Air Batteries. Advanced Functional Materials, 2021, 31, 2103360.	14.9	107
45	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.	2.0	11
46	Constructing Active Sites from Atomicâ€Scale Geometrical Engineering in Spinel Oxide Solid Solutions for Efficient and Robust Oxygen Evolution Reaction Electrocatalysts. Advanced Science, 2021, 8, e2101653.	11.2	31
47	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.	13.8	44
48	The role of ruthenium in improving the kinetics of hydrogen oxidation and evolution reactions of platinum. Nature Catalysis, 2021, 4, 711-718.	34.4	182
49	First-principles mechanistic study on nitrate reduction reactions on copper surfaces: Effects of crystal facets and pH. Journal of Catalysis, 2021, 400, 62-70.	6.2	40
50	Electrolytes Polymerizationâ€Induced Cathodeâ€Electrolyteâ€Interphase for High Voltage Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2101956.	19.5	39
51	Ligand Functionalized Ironâ€Based Metalâ€Organic Frameworks for Efficient Electrocatalytic Oxygen Evolution. ChemCatChem, 2021, 13, 4976-4984.	3.7	10
52	An organic bifunctional redox active material for symmetric aqueous redox flow battery. Nano Energy, 2021, 89, 106422.	16.0	24
53	Electrifying the nitrogen cycle: An electrochemical endeavor. Current Opinion in Electrochemistry, 2021, 30, 100790.	4.8	16
54	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.	13.7	77

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55	Densely vertical-grown NiFe hydroxide nanosheets on a 3D nickel skeleton as a dendrite-free lithium anode. Chemical Communications, 2021, 57, 12988-12991.	4.1	0
56	Attenuated total reflection infrared spectroscopy in nano-electrocatalysis. , 2021, , .		0
57	Room-temperature multiple ligands-tailored SnO2 quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high VOC. Light: Science and Applications, 2021, 10, 239.	16.6	40
58	Recent advances in non-precious group metal-based catalysts for water electrolysis and beyond. Journal of Materials Chemistry A, 2021, 10, 50-88.	10.3	44
59	Electrocatalytic Reduction of Nitrate to Ammonia on Low-Cost Ultrathin CoO_x Nanosheets. ACS Catalysis, 2021, 11, 15135-15140.	11.2	144
60	Boosting the activity of Fe-Nx moieties in Fe-N-C electrocatalysts via phosphorus doping for oxygen reduction reaction. Science China Materials, 2020, 63, 965-971.	6.3	71
61	Insights into KMnO4 etched N-rich carbon nanotubes as advanced electrocatalysts for Zn-air batteries. Applied Catalysis B: Environmental, 2020, 264, 118537.	20.2	81
62	Superfine MnO₂ Nanowires with Rich Defects Toward Boosted Zinc Ion Storage Performance. ACS Applied Materials & Interfaces, 2020, 12, 34949-34958.	8.0	156
63	Defect Engineering of Molybdenum-Based Materials for Electrocatalysis. Catalysts, 2020, 10, 1301.	3.5	21
64	Boosting Electrocatalytic Ammonia Production through Mimicking â€œÏ€ Back-Donationâ€• CheM, 2020, 6, 2690-2702.	11.7	88
65	Durable hybrid electrocatalysts for proton exchange membrane fuel cells. Nano Energy, 2020, 77, 105192.	16.0	21
66	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. Chemical Reviews, 2020, 120, 12217-12314.	47.7	563
67	Effects of Solid Electrolyte Interphase Components on the Reduction of LiFSI over Lithium Metal. ChemPhysChem, 2020, 21, 1310-1317.	2.1	17
68	Au Nanoparticles Modified with Pt, Ru and SnO₂ as Electrocatalysts for Ethanol Oxidation Reaction in Acids. Chemistry - an Asian Journal, 2020, 15, 2174-2180.	3.3	1
69	Flexible reduced graphene oxide/prussian blue films for hybrid supercapacitors. Chemical Engineering Journal, 2020, 397, 125521.	12.7	41
70	A Spectroscopic Study of Electrochemical Nitrogen and Nitrate Reduction on Rhodium Surfaces. Angewandte Chemie - International Edition, 2020, 59, 10479-10483.	13.8	135
71	A Spectroscopic Study of Electrochemical Nitrogen and Nitrate Reduction on Rhodium Surfaces. Angewandte Chemie, 2020, 132, 10565-10569.	2.0	104
72	Zeolitic Imidazolate Framework Cores Decorated with Pd Nanoparticles and Coated Further with Metalâ€“Organic Framework Shells (ZIF-8@Pd@MOF-74) as Nanocatalysts for Chemoselective Hydrogenation Reactions. ACS Applied Nano Materials, 2020, 3, 7242-7251.	5.0	31

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73	Electrochemical Synthesis of Ammonia from Nitrogen Under Mild Conditions: Current Status and Challenges. Electrochemical Energy Reviews, 2020, 3, 239-270.	25.5	67
74	Surface engineering in improving activity of Pt nanocubes for ammonia electrooxidation reaction. Applied Catalysis B: Environmental, 2020, 269, 118821.	20.2	58
75	Investigation of cubic Pt alloys for ammonia oxidation reaction. Nano Research, 2020, 13, 1920-1927.	10.4	50
76	Interatomic diffusion in Pd-Pt core-shell nanoparticles. Chinese Journal of Catalysis, 2020, 41, 807-812.	14.0	4
77	Stabilizing Single-Atom Iron Electrocatalysts for Oxygen Reduction via Ceria Confining and Trapping. ACS Catalysis, 2020, 10, 2452-2458.	11.2	103
78	2D Singleâ€Atom Catalyst with Optimized Iron Sites Produced by Thermal Melting of Metalâ€“Organic Frameworks for Oxygen Reduction Reaction. Small Methods, 2020, 4, 1900827.	8.6	113
79	pH-Dependent Hydrogen and Water Binding Energies on Platinum Surfaces as Directly Probed through Surface-Enhanced Infrared Absorption Spectroscopy. Journal of the American Chemical Society, 2020, 142, 8748-8754.	13.7	130
80	1â€T-phase molybdenum sulfide nanodots enable efficient electrocatalytic nitrogen fixation under ambient conditions. Applied Catalysis B: Environmental, 2020, 272, 118984.	20.2	68
81	Indigo Carmine/TEMPO Combined Bifunctional Molecule for a Total Organic Symmetric Aqueous Redox Flow Battery. ECS Meeting Abstracts, 2020, MA2020-01, 495-495.	0.0	1
82	Metal-organic-framework-derived hollow polyhedrons of prussian blue analogues for high power grid-scale energy storage. Electrochimica Acta, 2019, 321, 134671.	5.2	31
83	Role of Inorganic Surface Layer on Solid Electrolyte Interphase Evolution at Li-Metal Anodes. ACS Applied Materials & Interfaces, 2019, 11, 31467-31476.	8.0	75
84	Confinement-Enhanced Rapid Interlayer Diffusion within Graphene-Supported Anisotropic ReSe₂ Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 31147-31154.	8.0	13
85	Active Sites on Heterogeneous Single-Iron-Atom Electrocatalysts in CO₂ Reduction Reaction. ACS Energy Letters, 2019, 4, 1778-1783.	17.4	158
86	Direct synthesis of L10-FePt nanoparticles from single-source bimetallic complex and their electrocatalytic applications in oxygen reduction and hydrogen evolution reactions. Nano Research, 2019, 12, 2954-2959.	10.4	54
87	Impact of Heat Treatment on the Electrochemical Properties of Carbon-Supported Octahedral Ptâ€“Ni Nanoparticles. ACS Catalysis, 2019, 9, 11189-11198.	11.2	31
88	The Role of Ru in Improving the Activity of Pd toward Hydrogen Evolution and Oxidation Reactions in Alkaline Solutions. ACS Catalysis, 2019, 9, 9614-9621.	11.2	112
89	Two Dimensional WS₂/C Nanosheets as a Polysulfides Immobilizer for High Performance Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2019, 166, A5386-A5395.	2.9	29
90	First-Principles Study on the Initial Oxidative Decompositions of Ethylene Carbonate on Layered Cathode Surfaces of Lithium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 14449-14458.	3.1	18

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91	Probing the in-Plane Near-Field Enhancement Limit in a Plasmonic Particle-on-Film Nanocavity with Surface-Enhanced Raman Spectroscopy of Graphene. ACS Nano, 2019, 13, 7644-7654.	14.6	54
92	Composition-dependent CO₂ electrochemical reduction activity and selectivity on Auâ€“Pd coreâ€“shell nanoparticles. Journal of Materials Chemistry A, 2019, 7, 16954-16961.	10.3	56
93	Carbon nanotube-linked hollow carbon nanospheres doped with iron and nitrogen as single-atom catalysts for the oxygen reduction reaction in acidic solutions. Journal of Materials Chemistry A, 2019, 7, 14478-14482.	10.3	56
94	Co₃O₄ Nanoparticles Anchored on Nitrogen-Doped Partially Exfoliated Multiwall Carbon Nanotubes as an Enhanced Oxygen Electrocatalyst for the Rechargeable and Flexible Solid-State Znâ€“Air Battery. ACS Applied Energy Materials, 2019, 2, 4428-4438.	5.1	47
95	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. ACS Catalysis, 2019, 9, 5929-5934.	11.2	149
96	Electrochemical Nitrogen Reduction Reaction on Ruthenium. ACS Energy Letters, 2019, 4, 1336-1341.	17.4	187
97	Understanding and improving the initial Coulombic efficiency of high-capacity anode materials for practical sodium ion batteries. Energy Storage Materials, 2019, 23, 233-251.	18.0	279
98	Building ultraconformal protective layers on both secondary and primary particles of layered lithium transition metal oxide cathodes. Nature Energy, 2019, 4, 484-494.	39.5	345
99	1T MoS2 nanosheets with extraordinary sodium storage properties via thermal-driven ion intercalation assisted exfoliation of bulky MoS2. Nano Energy, 2019, 61, 361-369.	16.0	157
100	Identification of active sites in nitrogen and sulfur co-doped carbon-based oxygen reduction catalysts. Carbon, 2019, 147, 303-311.	10.3	44
101	Nitrogen-doped graphene fiber webs for multi-battery energy storage. Nanoscale, 2019, 11, 6334-6342.	5.6	38
102	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. Nano Energy, 2019, 61, 60-68.	16.0	192
103	CO₂ Electrochemical Reduction As Probed through Infrared Spectroscopy. ACS Energy Letters, 2019, 4, 682-689.	17.4	250
104	Nanoconfined Construction of MoS₂@C/MoS₂ Coreâ€“Sheath Nanowires for Superior Rate and Durable Li-Ion Energy Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 5346-5354.	6.7	55
105	Boron and nitrogen co-doped porous carbon nanofibers as metal-free electrocatalysts for highly efficient ammonia electrosynthesis. Journal of Materials Chemistry A, 2019, 7, 26272-26278.	10.3	66
106	Dispersive Single-Atom Metals Anchored on Functionalized Nanocarbons for Electrochemical Reactions. Topics in Current Chemistry, 2019, 377, 4.	5.8	29
107	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. Small Methods, 2019, 3, 1800324.	8.6	41
108	A Spectroscopic Study on the Nitrogen Electrochemical Reduction Reaction on Gold and Platinum Surfaces. Journal of the American Chemical Society, 2018, 140, 1496-1501.	13.7	496

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109	Insight into the synergistic effect between nickel and tungsten carbide for catalyzing urea electrooxidation in alkaline electrolyte. Applied Catalysis B: Environmental, 2018, 232, 365-370.	20.2	68
110	Ammonia electro-oxidation reaction: Recent development in mechanistic understanding and electrocatalyst design. Current Opinion in Electrochemistry, 2018, 9, 151-157.	4.8	89
111	Structure-dependent performance of TiO2/C as anode material for Na-ion batteries. Nano Energy, 2018, 44, 217-227.	16.0	209
112	Tungsten Carbide and Cobalt Modified Nickel Nanoparticles Supported on Multiwall Carbon Nanotubes as Highly Efficient Electrocatalysts for Urea Oxidation in Alkaline Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 41338-41343.	8.0	25
113	Structurally Engineered Hyperbranched NiCoP Arrays with Superior Electrocatalytic Activities toward Highly Efficient Overall Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 41237-41245.	8.0	110
114	Tuning Structural and Compositional Effects in Pdâ€“Au Nanowires for Highly Selective and Active CO₂ Electrochemical Reduction Reaction. Advanced Energy Materials, 2018, 8, 1802238.	19.5	132
115	Co Nanoparticles Encapsulated in Porous N-Doped Carbon Nanofibers as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. Journal of the Electrochemical Society, 2018, 165, J3271-J3275.	2.9	26
116	Interfacial Constructing Flexible V₂O₅@Polypyrrole Coreâ€“Shell Nanowire Membrane with Superior Supercapacitive Performance. ACS Applied Materials & Interfaces, 2018, 10, 18816-18823.	8.0	117
117	Mn₃O₄ Quantum Dots Supported on Nitrogen-Doped Partially Exfoliated Multiwall Carbon Nanotubes as Oxygen Reduction Electrocatalysts for High-Performance Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2018, 10, 23900-23909.	8.0	55
118	Origin of the High Capacity Manganese-Based Oxyfluoride Electrodes for Rechargeable Batteries. Chemistry of Materials, 2018, 30, 5362-5372.	6.7	16
119	Elaborate construction of N/S-co-doped carbon nanobowls for ultrahigh-power supercapacitors. Journal of Materials Chemistry A, 2018, 6, 17653-17661.	10.3	102
120	Carbon nanotube encapsulated in nitrogen and phosphorus co-doped carbon as a bifunctional electrocatalyst for oxygen reduction and evolution reactions. Carbon, 2018, 139, 156-163.	10.3	97
121	Fe3C Nanorods Encapsulated in N-Doped Carbon Nanotubes as Active Electrocatalysts for Hydrogen Evolution Reaction. Electrocatalysis, 2018, 9, 264-270.	3.0	24
122	Iron-Doped Cauliflower-Like Rutile TiO₂ with Superior Sodium Storage Properties. ACS Applied Materials & Interfaces, 2017, 9, 6093-6103.	8.0	125
123	Electrocatalytic Activities of Oxygen Reduction Reaction on Pd/C and Pdâ€“B/C Catalysts. Journal of Physical Chemistry C, 2017, 121, 3416-3423.	3.1	91
124	Impacts of anions on the oxygen reduction reaction kinetics on platinum and palladium surfaces in alkaline solutions. Physical Chemistry Chemical Physics, 2017, 19, 7631-7641.	2.8	23
125	Defect-rich TiO2-Î´ nanocrystals confined in a mooncake-shaped porous carbon matrix as an advanced Na ion battery anode. Journal of Power Sources, 2017, 354, 179-188.	7.8	87
126	Structural Evolution of Sub-10 nm Octahedral Platinumâ€“Nickel Bimetallic Nanocrystals. Nano Letters, 2017, 17, 3926-3931.	9.1	57

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127	Hierarchical NiCo₂O₄ Micro- and Nanostructures with Tunable Morphologies as Anode Materials for Lithium- and Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 16194-16201.	8.0	85
128	Fe/N co-doped carbon materials with controllable structure as highly efficient electrocatalysts for oxygen reduction reaction in Al-air batteries. Energy Storage Materials, 2017, 8, 49-58.	18.0	70
129	Structure dependent electrochemical performance of Li-rich layered oxides in lithium-ion batteries. Nano Energy, 2017, 35, 370-378.	16.0	116
130	N-doped rutile TiO 2 /C with significantly enhanced Na storage capacity for Na-ion batteries. Electrochimica Acta, 2017, 236, 43-52.	5.2	74
131	Carbon-Based Electrocatalysts for Hydrogen and Oxygen Evolution Reactions. ACS Catalysis, 2017, 7, 7855-7865.	11.2	406
132	Direct Observation on Reaction Intermediates and the Role of Bicarbonate Anions in CO₂ Electrochemical Reduction Reaction on Cu Surfaces. Journal of the American Chemical Society, 2017, 139, 15664-15667.	13.7	468
133	Pt-Ni nanourchins as electrocatalysts for oxygen reduction reaction. Frontiers in Energy, 2017, 11, 254-259.	2.3	11
134	Ptâ€“Ni Octahedra as Electrocatalysts for the Ethanol Electro-Oxidation Reaction. ACS Catalysis, 2017, 7, 5134-5141.	11.2	148
135	First-Principles Modeling of Direct versus Oxygen-Assisted Water Dissociation on Fe(100) Surfaces. Catalysts, 2016, 6, 29.	3.5	12
136	Co₃O₄â€“CeO₂/C as a Highly Active Electrocatalyst for Oxygen Reduction Reaction in Alâ€“Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 34422-34430.	8.0	159
137	The Role of Transition Metal and Nitrogen in Metalâ€“Nâ€“C Composites for Hydrogen Evolution Reaction at Universal pHs. Journal of Physical Chemistry C, 2016, 120, 29047-29053.	3.1	69
138	Palladium modified gold nanoparticles as electrocatalysts for ethanol electrooxidation. Journal of Power Sources, 2016, 321, 264-269.	7.8	31
139	Recent advances in palladium-based electrocatalysts for fuel cell reactions and hydrogen evolution reaction. Nano Energy, 2016, 29, 198-219.	16.0	294
140	Palladiumâ€“Platinum Coreâ€“Shell Electrocatalysts for Oxygen Reduction Reaction Prepared with the Assistance of Citric Acid. ACS Catalysis, 2016, 6, 3428-3432.	11.2	52
141	Fuel Cell Performance of Palladium-Platinum Core-Shell Electrocatalysts Synthesized in Gram-Scale Batches. Journal of the Electrochemical Society, 2016, 163, F708-F713.	2.9	18
142	Hollow Porous Hierarchical-Structured 0.5Li₂MnO₃Â·0.5LiMn_{0.4}Co_{0.3}Ni_{0.3}O₂ as a High-Performance Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 25654-25659.	8.0	38
143	Impacts of Perchloric Acid, Nafion, and Alkali Metal Ions on Oxygen Reduction Reaction Kinetics in Acidic and Alkaline Solutions. Journal of Physical Chemistry C, 2016, 120, 27452-27461.	3.1	25
144	The role of citric acid and ascorbic acid in morphology control of palladium nanocrystals: A molecular dynamics and density functional theory study. Chemical Physics Letters, 2016, 659, 159-163.	2.6	6

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145	The Role of Citric Acid in Perfecting Platinum Monolayer on Palladium Nanoparticles during the Surface Limited Redox Replacement Reaction. Journal of the Electrochemical Society, 2016, 163, D3040-D3046.	2.9	16
146	Polymer-Embedded Fabrication of Co₂P Nanoparticles Encapsulated in N,P-Doped Graphene for Hydrogen Generation. Nano Letters, 2016, 16, 4691-4698.	9.1	306
147	Surface structure and composition effects on electrochemical reduction of carbon dioxide. Journal of Solid State Electrochemistry, 2016, 20, 861-873.	2.5	34
148	Towards Effective Utilization of Nitrogen-Containing Active Sites: Nitrogen-doped Carbon Layers Wrapped CNTs Electrocatalysts for Superior Oxygen Reduction. Electrochimica Acta, 2016, 187, 153-160.	5.2	56
149	Recent Advances in Electrocatalysts for Oxygen Reduction Reaction. Chemical Reviews, 2016, 116, 3594-3657.	47.7	3,233
150	Electrocatalysis in Fuel Cells. Catalysts, 2015, 5, 2115-2121.	3.5	20
151	Pt Monolayer Electrocatalyst for Oxygen Reduction Reaction on Pd-Cu Alloy: First-Principles Investigation. Catalysts, 2015, 5, 1193-1201.	3.5	12
152	Synthesis of Nitrogen-Doped Carbon Nanotubes Using Injection-Vertical Chemical Vapor Deposition: Effects of Synthesis Parameters on the Nitrogen Content. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	7
153	A Pt-free Electrocatalyst Based on Pyrolized Vinazene-Carbon Composite for Oxygen Reduction Reaction. Electrochimica Acta, 2015, 161, 305-311.	5.2	14
154	Novel AuPd nanostructures for hydrogenation of 1,3-butadiene. Journal of Materials Chemistry A, 2015, 3, 4846-4854.	10.3	21
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