Gang Wu

List of Publications by Year
in descending order

335 papers	46,278 citations	1097 112 h-index	2032 205 g-index
346 all docs	346 docs citations	346 times ranked	27742 citing authors

#	Article	IF	Citations
1	High-Performance Electrocatalysts for Oxygen Reduction Derived from Polyaniline, Iron, and Cobalt. Science, 2011, 332, 443-447.	6.0	3,672
2	Recent advances in non-precious metal catalysis for oxygen-reduction reaction in polymer electrolyte fuelcells. Energy and Environmental Science, 2011, 4, 114-130.	15.6	1,456
3	Single Atomic Iron Catalysts for Oxygen Reduction in Acidic Media: Particle Size Control and Thermal Activation. Journal of the American Chemical Society, 2017, 139, 14143-14149.	6.6	1,215
4	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. Nature Catalysis, 2018, 1, 935-945.	16.1	1,075
5	Nanostructured Nonprecious Metal Catalysts for Oxygen Reduction Reaction. Accounts of Chemical Research, 2013, 46, 1878-1889.	7.6	975
6	Nitrogenâ€Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	11.1	788
7	Achievements, challenges and perspectives on cathode catalysts in proton exchange membrane fuel cells for transportation. Nature Catalysis, 2019, 2, 578-589.	16.1	760
8	Transition metal (Fe, Co, Ni, and Mn) oxides for oxygen reduction and evolution bifunctional catalysts in alkaline media. Nano Today, 2016, 11, 601-625.	6.2	738
9	Highly active atomically dispersed CoN₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. Energy and Environmental Science, 2019, 12, 250-260.	15.6	691
10	Carbon nanocomposite catalysts for oxygen reduction and evolution reactions: From nitrogen doping to transition-metal addition. Nano Energy, 2016, 29, 83-110.	8.2	650
11	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. Chemical Reviews, 2020, 120, 12217-12314.	23.0	563
12	Synthesisâ€“structureâ€“performance correlation for polyanilineâ€“Meâ€“C non-precious metal cathode catalysts for oxygen reduction in fuel cells. Journal of Materials Chemistry, 2011, 21, 11392.	6.7	545
13	Experimental Observation of Redox-Induced Feâ€“N Switching Behavior as a Determinant Role for Oxygen Reduction Activity. ACS Nano, 2015, 9, 12496-12505.	7.3	499
14	Metal (Ni, Co)â€Metal Oxides/Graphene Nanocomposites as Multifunctional Electrocatalysts. Advanced Functional Materials, 2015, 25, 5799-5808.	7.8	490
15	Nitrogen-Doped Graphene-Rich Catalysts Derived from Heteroatom Polymers for Oxygen Reduction in Nonaqueous Lithiumâ€“O₂ Battery Cathodes. ACS Nano, 2012, 6, 9764-9776.	7.3	486
16	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. Energy and Environmental Science, 2019, 12, 2548-2558.	15.6	457
17	Atomically dispersed metalâ€“nitrogenâ€“carbon catalysts for fuel cells: advances in catalyst design, electrode performance, and durability improvement. Chemical Society Reviews, 2020, 49, 3484-3524.	18.7	453
18	Performance enhancement and degradation mechanism identification of a single-atom Coâ€“Nâ€“C catalyst for proton exchange membrane fuel cells. Nature Catalysis, 2020, 3, 1044-1054.	16.1	443

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19	Directly converting Fe-doped metalâ€“organic frameworks into highly active and stable Fe-N-C catalysts for oxygen reduction in acid. Nano Energy, 2016, 25, 110-119.	8.2	434
20	PGMâ€Free Cathode Catalysts for PEM Fuel Cells: A Miniâ€Review on Stability Challenges. Advanced Materials, 2019, 31, e1807615.	11.1	430
21	Nitrogen-modified carbon-based catalysts for oxygen reduction reaction in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2009, 188, 38-44.	4.0	417
22	Silicon-based anodes for lithium-ion batteries: Effectiveness of materials synthesis and electrode preparation. Nano Energy, 2016, 27, 359-376.	8.2	415
23	Development of high performance carbon composite catalyst for oxygen reduction reaction in PEM Proton Exchange Membrane fuel cells. Journal of Power Sources, 2008, 183, 34-42.	4.0	412
24	A Grapheneâ€Supported Singleâ€Atom FeN₅ Catalytic Site for Efficient Electrochemical CO₂ Reduction. Angewandte Chemie - International Edition, 2019, 58, 14871-14876.	7.2	410
25	Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N2 and H2O in alkaline electrolytes. Nano Energy, 2018, 48, 217-226.	8.2	406
26	Unveiling Active Sites of CO₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. ACS Catalysis, 2018, 8, 3116-3122.	5.5	405
27	Graphene/Grapheneâ€Tube Nanocomposites Templated from Cageâ€Containing Metalâ€Organic Frameworks for Oxygen Reduction in Liâ€“O₂ Batteries. Advanced Materials, 2014, 26, 1378-1386.	11.1	398
28	New Approach to Fully Ordered fct-FePt Nanoparticles for Much Enhanced Electrocatalysis in Acid. Nano Letters, 2015, 15, 2468-2473.	4.5	385
29	Multitechnique Characterization of a Polyanilineâ€“Ironâ€“Carbon Oxygen Reduction Catalyst. Journal of Physical Chemistry C, 2012, 116, 16001-16013.	1.5	378
30	Current progress of Pt and Pt-based electrocatalysts used for fuel cells. Sustainable Energy and Fuels, 2020, 4, 15-30.	2.5	375
31	Integrating NiCo Alloys with Their Oxides as Efficient Bifunctional Cathode Catalysts for Rechargeable Zincâ€“Air Batteries. Angewandte Chemie - International Edition, 2015, 54, 9654-9658.	7.2	372
32	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN₄ Sites for Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 18971-18980.	7.2	362
33	Nanocarbon Electrocatalysts for Oxygen Reduction in Alkaline Media for Advanced Energy Conversion and Storage. Advanced Energy Materials, 2014, 4, 1301415.	10.2	351
34	3D printing technologies for electrochemical energy storage. Nano Energy, 2017, 40, 418-431.	8.2	351
35	Zincâ€Mediated Template Synthesis of Feâ€Nâ€C Electrocatalysts with Densely Accessible Feâ€N<i>_x</i> Active Sites for Efficient Oxygen Reduction. Advanced Materials, 2020, 32, e1907399.	11.1	319
36	Engineering nanostructures of PGM-free oxygen-reduction catalysts using metal-organic frameworks. Nano Energy, 2017, 31, 331-350.	8.2	317

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37	Low-temperature ammonia decomposition catalysts for hydrogen generation. Applied Catalysis B: Environmental, 2018, 226, 162-181.	10.8	307
38	Ordered Pt₃Co Intermetallic Nanoparticles Derived from Metalâ€“Organic Frameworks for Oxygen Reduction. Nano Letters, 2018, 18, 4163-4171.	4.5	304
39	N-, P-, and S-doped graphene-like carbon catalysts derived from onium salts with enhanced oxygen chemisorption for Zn-air battery cathodes. Applied Catalysis B: Environmental, 2019, 241, 442-451.	10.8	284
40	Remarkable support effect of SWNTs in Pt catalyst for methanol electrooxidation. Electrochemistry Communications, 2005, 7, 1237-1243.	2.3	275
41	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and Highâ€Power PGMâ€Free Cathodes in Fuel Cells. Advanced Materials, 2020, 32, e2003577.	11.1	262
42	Atomically dispersed iron sites with a nitrogenâ€“carbon coating as highly active and durable oxygen reduction catalysts for fuel cells. Nature Energy, 2022, 7, 652-663.	19.8	258
43	High-Loading Cobalt Oxide Coupled with Nitrogen-Doped Graphene for Oxygen Reduction in Anion-Exchange-Membrane Alkaline Fuel Cells. Journal of Physical Chemistry C, 2013, 117, 8697-8707.	1.5	251
44	Atomically Dispersed Metal Catalysts for Oxygen Reduction. ACS Energy Letters, 2019, 4, 1619-1633.	8.8	251
45	Engineering Local Coordination Environments of Atomically Dispersed and Heteroatomâ€Coordinated Single Metal Site Electrocatalysts for Clean Energyâ€Conversion. Advanced Energy Materials, 2020, 10, 1902844.	10.2	245
46	Atomically Dispersed Feâ€“Co Dual Metal Sites as Bifunctional Oxygen Electrocatalysts for Rechargeable and Flexible Znâ€“Air Batteries. ACS Catalysis, 2022, 12, 1216-1227.	5.5	232
47	Advanced Electrocatalysis for Energy and Environmental Sustainability via Water and Nitrogen Reactions. Advanced Materials, 2021, 33, e2000381.	11.1	231
48	Effect of electrochemical polarization of PtRu/C catalysts on methanol electrooxidation. Electrochimica Acta, 2004, 50, 1-10.	2.6	226
49	Synthesis of nitrogen-doped onion-like carbon and its use in carbon-based CoFe binary non-precious-metal catalysts for oxygen-reduction. Carbon, 2011, 49, 3972-3982.	5.4	225
50	Restoring the Nitrogen Cycle by Electrochemical Reduction of Nitrate: Progress and Prospects. Small Methods, 2020, 4, 2000672.	4.6	225
51	Highly Active and Stable Graphene Tubes Decorated with FeCoNi Alloy Nanoparticles via a Templateâ€Free Graphitization for Bifunctional Oxygen Reduction and Evolution. Advanced Energy Materials, 2016, 6, 1601198.	10.2	224
52	Oxygen-deficient BaTiO3â^’ perovskite as an efficient bifunctional oxygen electrocatalyst. Nano Energy, 2015, 13, 423-432.	8.2	221
53	3D porous graphitic nanocarbon for enhancing the performance and durability of Pt catalysts: a balance between graphitization and hierarchical porosity. Energy and Environmental Science, 2019, 12, 2830-2841.	15.6	219
54	Mechanistic understanding of the role separators playing in advanced lithiumâ€sulfur batteries. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 483-508.	8.5	219

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55	Well-Dispersed High-Loading Pt Nanoparticles Supported by Shellâ˘'Core Nanostructured Carbon for Methanol Electrooxidation. Langmuir, 2008, 24, 3566-3575.	1.6	216
56	Ozonated Graphene Oxide Film as a Protonâ€Exchange Membrane. Angewandte Chemie - International Edition, 2014, 53, 3588-3593.	7.2	214
57	Polyaniline-derived Non-Precious Catalyst for the Polymer Electrolyte Fuel Cell Cathode. ECS Transactions, 2008, 16, 159-170.	0.3	209
58	Metalâ€"Organic Frameworkâ€Derived Bambooâ€like Nitrogenâ€Doped Graphene Tubes as an Active Matrix for Hybrid Oxygenâ€Reduction Electrocatalysts. Small, 2015, 11, 1443-1452.	5.2	209
59	Ironâ€Free Cathode Catalysts for Protonâ€Exchangeâ€Membrane Fuel Cells: Cobalt Catalysts and the Peroxide Mitigation Approach. Advanced Materials, 2019, 31, e1805126.	11.1	208
60	Controlled assembly of Cu nanoparticles on pyridinic-N rich graphene for electrochemical reduction of CO2 to ethylene. Nano Energy, 2016, 24, 1-9.	8.2	199
61	Atomic Arrangement Engineering of Metallic Nanocrystals for Energy-Conversion Electrocatalysis. Joule, 2019, 3, 956-991.	11.7	197
62	A carbon-nanotube-supported graphene-rich non-precious metal oxygen reduction catalyst with enhanced performance durability. Chemical Communications, 2013, 49, 3291.	2.2	196
63	Bifunctional Perovskite Oxide Catalysts for Oxygen Reduction and Evolution in Alkaline Media. Chemistry - an Asian Journal, 2016, 11, 10-21.	1.7	190
64	Feï£¿N₄ Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium. Advanced Energy Materials, 2018, 8, 1801912.	10.2	188
65	High-performance non-spinel cobaltâ€"manganese mixed oxide-based bifunctional electrocatalysts for rechargeable zincâ€"air batteries. Nano Energy, 2016, 20, 315-325.	8.2	187
66	A Roadmap to Lowâ€Cost Hydrogen with Hydroxide Exchange Membrane Electrolyzers. Advanced Materials, 2019, 31, e1805876.	11.1	184
67	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 4192-4198.	7.2	183
68	Anodically electrodeposited Co+Ni mixed oxide electrode: preparation and electrocatalytic activity for oxygen evolution in alkaline media. Journal of Solid State Chemistry, 2004, 177, 3682-3692.	1.4	179
69	Morphology-Dependent Performance of CuO Anodes via Facile and Controllable Synthesis for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 1243-1250.	4.0	172
70	Mn- and N- doped carbon as promising catalysts for oxygen reduction reaction: Theoretical prediction and experimental validation. Applied Catalysis B: Environmental, 2019, 243, 195-203.	10.8	170
71	Electrodeposited Coâ€"Niâ€"Al2O3 composite coatings. Surface and Coatings Technology, 2004, 176, 157-164.	2.2	168
72	Atomically dispersed single iron sites for promoting Pt and Pt₃Co fuel cell catalysts: performance and durability improvements. Energy and Environmental Science, 2021, 14, 4948-4960.	15.6	168

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73	Structure of Feâ€“N_{<i>x</i>}â€“C Defects in Oxygen Reduction Reaction Catalysts from First-Principles Modeling. Journal of Physical Chemistry C, 2014, 118, 14388-14393.	1.5	167
74	3D direct writing fabrication of electrodes for electrochemical storage devices. Journal of Power Sources, 2017, 354, 134-147.	4.0	164
75	Antiperovskite Li₃OCl Superionic Conductor Films for Solidâ€State Liâ€Ion Batteries. Advanced Science, 2016, 3, 1500359.	5.6	162
76	Cation and anion Co-doping synergy to improve structural stability of Li- and Mn-rich layered cathode materials for lithium-ion batteries. Nano Energy, 2019, 57, 157-165.	8.2	162
77	Carbon nanotube supported Pt electrodes for methanol oxidation: A comparison between multi- and single-walled carbon nanotubes. Journal of Power Sources, 2007, 174, 148-158.	4.0	161
78	Controlled synthesis of micro/nanostructured CuO anodes for lithium-ion batteries. Nano Energy, 2014, 9, 334-344.	8.2	161
79	Morphology Control of Carbon-Free Spinel NiCo₂O₄ Catalysts for Enhanced Bifunctional Oxygen Reduction and Evolution in Alkaline Media. ACS Applied Materials & Interfaces, 2017, 9, 44567-44578.	4.0	161
80	Coreâ€“shell structured hollow SnO2â€“polypyrrole nanocomposite anodes with enhanced cyclic performance for lithium-ion batteries. Nano Energy, 2014, 6, 73-81.	8.2	160
81	Reviewâ€"Ammonia Oxidation Electrocatalysis for Hydrogen Generation and Fuel Cells. Journal of the Electrochemical Society, 2018, 165, J3130-J3147.	1.3	160
82	Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. Nano Energy, 2017, 42, 69-89.	8.2	157
83	Polyaniline-carbon composite films as supports of Pt and PtRu particles for methanol electrooxidation. Carbon, 2005, 43, 2579-2587.	5.4	154
84	Performance Durability of Polyaniline-derived Non-precious Cathode Catalysts. ECS Transactions, 2009, 25, 1299-1311.	0.3	150
85	Role of Local Carbon Structure Surrounding FeN₄ Sites in Boosting the Catalytic Activity for Oxygen Reduction. Journal of Physical Chemistry C, 2017, 121, 11319-11324.	1.5	150
86	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N₂ and H₂O. Small Methods, 2020, 4, 1900821.	4.6	148
87	Photocatalysis and Photoelectrocatalysis Methods of Nitrogen Reduction for Sustainable Ammonia Synthesis. Small Methods, 2019, 3, 1800352.	4.6	144
88	Effective strategies for stabilizing sulfur for advanced lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 448-469.	5.2	143
89	Stability of iron species in heat-treated polyanilineâ€“ironâ€“carbon polymer electrolyte fuel cell cathode catalysts. Electrochimica Acta, 2013, 110, 282-291.	2.6	138
90	Platinum-group-metal catalysts for proton exchange membrane fuel cells: From catalyst design to electrode structure optimization. EnergyChem, 2020, 2, 100023.	10.1	138

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91	Energy storage materials derived from Prussian blue analogues. Science Bulletin, 2017, 62, 358-368.	4.3	136
92	Carbonâ€Rich Nonprecious Metal Single Atom Electrocatalysts for CO₂ Reduction and Hydrogen Evolution. Small Methods, 2019, 3, 1900210.	4.6	136
93	Designing 3d dual transition metal electrocatalysts for oxygen evolution reaction in alkaline electrolyte: Beyond oxides. Nano Energy, 2020, 77, 105162.	8.2	134
94	Enhanced methanol electro-oxidation activity of PtRu catalysts supported on heteroatom-doped carbon. Electrochimica Acta, 2008, 53, 7622-7629.	2.6	133
95	Quaternary FeCoNiMn-Based Nanocarbon Electrocatalysts for Bifunctional Oxygen Reduction and Evolution: Promotional Role of Mn Doping in Stabilizing Carbon. ACS Catalysis, 2017, 7, 8386-8393.	5.5	131
96	Highly Dispersed Pd-CeO₂ Nanoparticles Supported on N-Doped Coreâ€"Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. ACS Catalysis, 2019, 9, 6362-6371.	5.5	131
97	Li-rich anti-perovskite Li₃OCl films with enhanced ionic conductivity. Chemical Communications, 2014, 50, 11520-11522.	2.2	130
98	Graphene/Fe₂O₃/SnO₂ Ternary Nanocomposites as a High-Performance Anode for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8607-8614.	4.0	129
99	Honeycomb-like Hard Carbon Derived from Pine Pollen as High-Performance Anode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 42796-42803.	4.0	129
100	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. Energy and Environmental Science, 2020, 13, 3544-3555.	15.6	129
101	Titanium dioxide-supported non-precious metal oxygen reduction electrocatalyst. Chemical Communications, 2010, 46, 7489.	2.2	128
102	Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction in PEM Fuel Cells: Self-Template Synthesis Approach to Enhancing Catalytic Activity and Stability. Electrochemical Energy Reviews, 2019, 2, 231-251.	13.1	128
103	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21698-21705.	7.2	128
104	Methanol electrooxidation on Pt particles dispersed into PANI/SWNT composite films. Journal of Power Sources, 2006, 155, 118-127.	4.0	127
105	Nanocarbon/oxide composite catalysts for bifunctional oxygen reduction and evolution in reversible alkaline fuel cells: A mini review. Journal of Power Sources, 2018, 375, 277-290.	4.0	127
106	Engineering Favorable Morphology and Structure of Feâ€Nâ€C Oxygenâ€Reduction Catalysts through Tuning of Nitrogen/Carbon Precursors. ChemSusChem, 2017, 10, 774-785.	3.6	124
107	Electrochemical ammonia synthesis through N2 and H2O under ambient conditions: Theory, practices, and challenges for catalysts and electrolytes. Nano Energy, 2020, 69, 104469.	8.2	123
108	Atomically Dispersed MnN₄ Catalysts <i>via</i> Environmentally Benign Aqueous Synthesis for Oxygen Reduction: Mechanistic Understanding of Activity and Stability Improvements. ACS Catalysis, 2020, 10, 10523-10534.	5.5	123

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109	Nitrogen-doped magnetic onion-like carbon as support for Pt particles in a hybrid cathode catalyst for fuel cells. Journal of Materials Chemistry, 2010, 20, 3059.	6.7	122
110	Engineering Atomically Dispersed FeN₄ Active Sites for CO₂ Electroreduction. Angewandte Chemie - International Edition, 2021, 60, 1022-1032.	7.2	121
111	Chemical Vapor Deposition for N/S-Doped Single Fe Site Catalysts for the Oxygen Reduction in Direct Methanol Fuel Cells. ACS Catalysis, 2021, 11, 7450-7459.	5.5	120
112	Dynamically Unveiling Metalâ€"Nitrogen Coordination during Thermal Activation to Design Highâ€Efficient Atomically Dispersed CoN₄ Active Sites. Angewandte Chemie - International Edition, 2021, 60, 9516-9526.	7.2	119
113	Promoting Atomically Dispersed MnN₄ Sites <i>via</i> Sulfur Doping for Oxygen Reduction: Unveiling Intrinsic Activity and Degradation in Fuel Cells. ACS Nano, 2021, 15, 6886-6899.	7.3	119
114	Metalâ€"Organic Frameworks and Their Derived Materials as Electrocatalysts and Photocatalysts for CO₂ Reduction: Progress, Challenges, and Perspectives. Chemistry - A European Journal, 2018, 24, 18137-18157.	1.7	117
115	Phosphate-Tolerant Oxygen Reduction Catalysts. ACS Catalysis, 2014, 4, 3193-3200.	5.5	116
116	Tungsten carbide as supports for Pt electrocatalysts with improved CO tolerance in methanol oxidation. Journal of Power Sources, 2011, 196, 6125-6130.	4.0	115
117	Controllable synthesis of magnetic carbon composites with high porosity and strong acid resistance from hydrochar for efficient removal of organic pollutants: An overlooked influence. Carbon, 2016, 99, 338-347.	5.4	115
118	Lattice Boltzmann Pore-Scale Investigation of Coupled Physical-electrochemical Processes in C/Pt and Non-Precious Metal Cathode Catalyst Layers in Proton Exchange Membrane Fuel Cells. Electrochimica Acta, 2015, 158, 175-186.	2.6	114
119	Size-controlled large-diameter and few-walled carbon nanotube catalysts for oxygen reduction. Nanoscale, 2015, 7, 20290-20298.	2.8	112
120	3D polymer hydrogel for high-performance atomic iron-rich catalysts for oxygen reduction in acidic media. Applied Catalysis B: Environmental, 2017, 219, 629-639.	10.8	111
121	Advanced Mesoporous Spinel Li₄Ti₅O₁₂/rGO Composites with Increased Surface Lithium Storage Capability for High-Power Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 9162-9169.	4.0	108
122	A Grapheneâ€Supported Singleâ€Atom FeN₅ Catalytic Site for Efficient Electrochemical CO₂ Reduction. Angewandte Chemie, 2019, 131, 15013-15018.	1.6	107
123	One-step synthesis of Mn3O4/reduced graphene oxide nanocomposites for oxygen reduction in nonaqueous Liâ€"O2 batteries. Chemical Communications, 2013, 49, 10838.	2.2	106
124	Boosting CO2 reduction on Fe-N-C with sulfur incorporation: Synergistic electronic and structural engineering. Nano Energy, 2020, 68, 104384.	8.2	106
125	Highâ€Performance Direct Methanol Fuel Cells with Preciousâ€Metalâ€Free Cathode. Advanced Science, 2016, 3, 1600140.	5.6	105
126	Nanostructured carbon-based cathode catalysts for nonaqueous lithiumâ€"oxygen batteries. Physical Chemistry Chemical Physics, 2014, 16, 13568-13582.	1.3	104

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127	Ternary PtIrNi Catalysts for Efficient Electrochemical Ammonia Oxidation. ACS Catalysis, 2020, 10, 3945-3957.	5.5	104
128	Enhanced performance of atomically dispersed dual-site Fe-Mn electrocatalysts through cascade reaction mechanism. Applied Catalysis B: Environmental, 2021, 288, 120021.	10.8	104
129	Ru nanoassembly catalysts for hydrogen evolution and oxidation reactions in electrolytes at various pH values. Applied Catalysis B: Environmental, 2019, 258, 117952.	10.8	102
130	Carbon-supported Co1.67Te2 nanoparticles as electrocatalysts for oxygen reduction reaction in alkaline electrolyte. Journal of Materials Chemistry, 2009, 19, 6581.	6.7	101
131	Highly active ruthenium sites stabilized by modulating electron-feeding for sustainable acidic oxygen-evolution electrocatalysis. Energy and Environmental Science, 2022, 15, 2356-2365.	15.6	101
132	Amorphous Coâ€“Feâ€“P nanospheres for efficient water oxidation. Journal of Materials Chemistry A, 2017, 5, 25378-25384.	5.2	100
133	A theoretical mechanistic study on electrical conductivity enhancement of DMSO treated PEDOT:PSS. Journal of Materials Chemistry C, 2018, 6, 5122-5131.	2.7	100
134	High-performance ammonia oxidation catalysts for anion-exchange membrane direct ammonia fuel cells. Energy and Environmental Science, 2021, 14, 1449-1460.	15.6	100
135	Innovation and challenges in materials design for flexible rechargeable batteries: from 1D to 3D. Journal of Materials Chemistry A, 2018, 6, 735-753.	5.2	99
136	Atomically Dispersed Zinc(I) Active Sites to Accelerate Nitrogen Reduction Kinetics for Ammonia Electrosynthesis. Advanced Materials, 2022, 34, e2103548.	11.1	99
137	Atomically dispersed single Ni site catalysts for high-efficiency CO₂ electroreduction at industrial-level current densities. Energy and Environmental Science, 2022, 15, 2108-2119.	15.6	99
138	Electro-catalytic oxidation of CO on Pt catalyst supported on carbon nanotubes pretreated with oxidative acids. Carbon, 2006, 44, 2973-2983.	5.4	97
139	Experimental visualization of lithium conduction pathways in garnet-type Li7La3Zr2O12. Chemical Communications, 2012, 48, 9840.	2.2	95
140	Elucidation of the Synergistic Effect of Dopants and Vacancies on Promoted Selectivity for CO₂ Electroreduction to Formate. Advanced Materials, 2021, 33, e2005113.	11.1	95
141	Niâ€“CeO2 composite cathode material for hydrogen evolution reaction in alkaline electrolyte. International Journal of Hydrogen Energy, 2012, 37, 13921-13932.	3.8	94
142	Single-Iron Site Catalysts with Self-Assembled Dual-size Architecture and Hierarchical Porosity for Proton-Exchange Membrane Fuel Cells. Applied Catalysis B: Environmental, 2020, 279, 119400.	10.8	94
143	Improving the Stability of Nonâ€Nobleâ€Metal Mâ€“Nâ€“C Catalysts for Protonâ€Exchangeâ€Membrane Fuel Cells through Mâ€“N Bond Length and Coordination Regulation. Advanced Materials, 2021, 33, e2006613.	11.1	94
144	Structure-Dependent Electrocatalytic Properties of Cu₂O Nanocrystals for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2013, 117, 13872-13878.	1.5	92

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145	High Power Density Platinum Group Metal-free Cathodes for Polymer Electrolyte Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 2216-2224.	4.0	91
146	Conductive Porous Laminated Vanadium Nitride as Carbon-Free Hosts for High-Loading Sulfur Cathodes in Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 17308-17320.	7.3	86
147	Carbonâ€Supported Single Metal Site Catalysts for Electrochemical CO₂ Reduction to CO and Beyond. Small, 2021, 17, e2005148.	5.2	86
148	Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO2 electroreduction. Carbon, 2019, 150, 52-59.	5.4	84
149	Pt alloy oxygen-reduction electrocatalysts: Synthesis, structure, and property. Chinese Journal of Catalysis, 2020, 41, 739-755.	6.9	84
150	Tuning Twoâ€Electron Oxygenâ€Reduction Pathways for H₂O₂ Electrosynthesis via Engineering Atomically Dispersed Single Metal Site Catalysts. Advanced Materials, 2022, 34, e2107954.	11.1	84
151	Atomically Dispersed Dualâ€Metal Site Catalysts for Enhanced CO₂ Reduction: Mechanistic Insight into Active Site Structures. Angewandte Chemie - International Edition, 2022, 61, .	7.2	83
152	Emerging nanostructured carbon-based non-precious metal electrocatalysts for selective electrochemical CO₂ reduction to CO. Journal of Materials Chemistry A, 2019, 7, 25191-25202.	5.2	82
153	Highly accessible and dense surface single metal FeN₄ active sites for promoting the oxygen reduction reaction. Energy and Environmental Science, 2022, 15, 2619-2628.	15.6	82
154	High performance Li3V2(PO4)3/C composite cathode material for lithium ion batteries studied in pilot scale test. Electrochimica Acta, 2010, 55, 8595-8599.	2.6	81
155	Cu-Deficient Plasmonic Cu2â€“xS Nanoplate Electrocatalysts for Oxygen Reduction. ACS Catalysis, 2015, 5, 2534-2540.	5.5	81
156	Highâ€Performance Microsized Si Anodes for Lithiumâ€Ion Batteries: Insights into the Polymer Configuration Conversion Mechanism. Advanced Materials, 2022, 34, e2109658.	11.1	81
157	Boosting Pd-catalysis for electrochemical CO2 reduction to CO on Bi-Pd single atom alloy nanodendrites. Applied Catalysis B: Environmental, 2021, 289, 119783.	10.8	80
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