Zidong Wei

List of Publications by Year
in descending order

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274 papers	18,980 citations	15504 65 h-index	14759 127 g-index
280 all docs	280 docs citations	280 times ranked	17766 citing authors

#	Article	IF	Citations
1	Recent advancements in Pt and Pt-free catalysts for oxygen reduction reaction. Chemical Society Reviews, 2015, 44, 2168-2201.	38.1	1,858
2	Understanding the High Activity of Feâ€“Nâ€“C Electrocatalysts in Oxygen Reduction: Fe/Fe₃C Nanoparticles Boost the Activity of Feâ€“N_x. Journal of the American Chemical Society, 2016, 138, 3570-3578.	13.7	1,549
3	Spaceâ€Confinementâ€Induced Synthesis of Pyridinicâ€and Pyrrolicâ€Nitrogenâ€Doped Graphene for the Catalysis of Oxygen Reduction. Angewandte Chemie - International Edition, 2013, 52, 11755-11759.	13.8	620
4	Nitrogen and Phosphorus Dual-Doped Graphene/Carbon Nanosheets as Bifunctional Electrocatalysts for Oxygen Reduction and Evolution. ACS Catalysis, 2015, 5, 4133-4142.	11.2	620
5	Ultrahighâ€Loading Zinc Singleâ€Atom Catalyst for Highly Efficient Oxygen Reduction in Both Acidic and Alkaline Media. Angewandte Chemie - International Edition, 2019, 58, 7035-7039.	13.8	469
6	Nanostructured Polyaniline-Decorated Pt/C@PANI Coreâ€“Shell Catalyst with Enhanced Durability and Activity. Journal of the American Chemical Society, 2012, 134, 13252-13255.	13.7	430
7	Phosphorus-doped graphene nanosheets as efficient metal-free oxygen reduction electrocatalysts. RSC Advances, 2013, 3, 9978.	3.6	365
8	Shape Fixing via Salt Recrystallization: A Morphology-Controlled Approach To Convert Nanostructured Polymer to Carbon Nanomaterial as a Highly Active Catalyst for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 5414-5420.	13.7	364
9	A Review of Water Management in Polymer Electrolyte Membrane Fuel Cells. Energies, 2009, 2, 1057-1106.	3.1	287
10	An extraordinarily stable catalyst: Pt NPs supported on two-dimensional Ti3C2X2 (X = OH, F) nanosheets for oxygen reduction reaction. Chemical Communications, 2013, 49, 10112.	4.1	284
11	Bimetallic PdPt nanowire networks with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. Energy and Environmental Science, 2015, 8, 2910-2915.	30.8	283
12	Lattice-confined Ru clusters with high CO tolerance and activity for the hydrogen oxidation reaction. Nature Catalysis, 2020, 3, 454-462.	34.4	282
13	Transition-metal-oxide-based catalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 8194-8209.	10.3	259
14	Ni-doped Mo₂C nanowires supported on Ni foam as a binder-free electrode for enhancing the hydrogen evolution performance. Journal of Materials Chemistry A, 2015, 3, 1863-1867.	10.3	234
15	Surface Al leached Ti₃AlC₂as a substitute for carbon for use as a catalyst support in a harsh corrosive electrochemical system. Nanoscale, 2014, 6, 11035-11040.	5.6	231
16	Embedding Pt Nanocrystals in N-Doped Porous Carbon/Carbon Nanotubes toward Highly Stable Electrocatalysts for the Oxygen Reduction Reaction. ACS Catalysis, 2015, 5, 2903-2909.	11.2	221
17	Porous metal materials for polymer electrolyte membrane fuel cells â€“ A review. Applied Energy, 2012, 94, 309-329.	10.1	215
18	Recent developments in metal phosphide and sulfide electrocatalysts for oxygen evolution reaction. Chinese Journal of Catalysis, 2018, 39, 1575-1593.	14.0	205

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19	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. Nano Energy, 2019, 61, 60-68.	16.0	192
20	A one-step, cost-effective green method to in situ fabricate Ni(OH)₂ hexagonal platelets on Ni foam as binder-free supercapacitor electrode materials. Journal of Materials Chemistry A, 2015, 3, 1953-1960.	10.3	179
21	Facile Synthesis of Highly Active PdAu Nanowire Networks as Self-Supported Electrocatalyst for Ethanol Electrooxidation. ACS Applied Materials & Interfaces, 2014, 6, 9481-9487.	8.0	162
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	Enhanced stability of Pt nanoparticle electrocatalysts for fuel cells. Nano Research, 2015, 8, 418-440.	10.4	153
24	A Strategy to Promote the Electrocatalytic Activity of Spinels for Oxygen Reduction by Structure Reversal. Angewandte Chemie - International Edition, 2016, 55, 1340-1344.	13.8	153
25	Structural Evolution of Solid Pt Nanoparticles to a Hollow PtFe Alloy with a Ptâ€Skin Surface via Spaceâ€Confined Pyrolysis and the Nanoscale Kirkendall Effect. Advanced Materials, 2016, 28, 10673-10678.	21.0	150
26	Chimney effect of the interface in metal oxide/metal composite catalysts on the hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 245, 122-129.	20.2	132
27	NaCl Crystallites as Dual-Functional and Water-Removable Templates To Synthesize a Three-Dimensional Graphene-like Macroporous Fe-N-C Catalyst. ACS Catalysis, 2017, 7, 6144-6149.	11.2	131
28	Dendritic Au/Pt and Au/PtCu Nanowires with Enhanced Electrocatalytic Activity for Methanol Electrooxidation. Small, 2014, 10, 3262-3265.	10.0	125
29	Inverse Spinel Cobaltâ€“Iron Oxide and N-Doped Graphene Composite as an Efficient and Durable Bifuctional Catalyst for Liâ€“O₂ Batteries. ACS Catalysis, 2018, 8, 4082-4090.	11.2	122
30	An Efficient Antiâ€poisoning Catalyst against SO_x, NO_x, and PO_x: P, Nâ€Doped Carbon for Oxygen Reduction in Acidic Media. Angewandte Chemie - International Edition, 2018, 57, 15101-15106.	13.8	122
31	Modulating the oxygen reduction activity of heteroatom-doped carbon catalysts via the triple effect: charge, spin density and ligand effect. Chemical Science, 2018, 9, 5795-5804.	7.4	121
32	Study of the degradation mechanisms of carbon-supported platinum fuel cells catalyst via different accelerated stress test. Journal of Power Sources, 2015, 273, 62-69.	7.8	120
33	Accurately measuring the hydrogen generation rate for hydrolysis of sodium borohydride on multiwalled carbon nanotubes/Coâ€“B catalysts. International Journal of Hydrogen Energy, 2008, 33, 7110-7115.	7.1	116
34	Dual-Ligand Synergistic Modulation: A Satisfactory Strategy for Simultaneously Improving the Activity and Stability of Oxygen Evolution Electrocatalysts. ACS Catalysis, 2017, 7, 8184-8191.	11.2	109
35	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. ACS Catalysis, 2019, 9, 8712-8718.	11.2	103
36	Rational construction of macroporous CoFeP triangular plate arrays from bimetalâ€“organic frameworks as high-performance overall water-splitting catalysts. Journal of Materials Chemistry A, 2019, 7, 17529-17535.	10.3	102

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37	Noble-metal-free Co₃S₄â€“S/G porous hybrids as an efficient electrocatalyst for oxygen reduction reaction. Chemical Science, 2016, 7, 4167-4173.	7.4	98
38	A eutectic salt-assisted semi-closed pyrolysis route to fabricate high-density active-site hierarchically porous Fe/N/C catalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 15504-15509.	10.3	98
39	Confining Iron Carbide Nanocrystals inside CN_x@CNT toward an Efficient Electrocatalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 11508-11515.	8.0	94
40	Cobalt carbonate hydroxide/C: an efficient dual electrocatalyst for oxygen reduction/evolution reactions. Chemical Communications, 2014, 50, 15529-15532.	4.1	93
41	Facile synthesis of PtCu nanowires with enhanced electrocatalytic activity. Nano Research, 2015, 8, 2308-2316.	10.4	93
42	A metalâ€“organic framework derived 3D hierarchical Co/N-doped carbon nanotube/nanoparticle composite as an active electrocatalyst for oxygen reduction in alkaline electrolyte. Journal of Materials Chemistry A, 2018, 6, 3386-3390.	10.3	92
43	Systematic exploration of N,C coordination effects on the ORR performance of Mnâ€“N_x doped graphene catalysts based on DFT calculations. Physical Chemistry Chemical Physics, 2019, 21, 12826-12836.	2.8	92
44	Monodispersed Co in Mesoporous Polyhedrons: Fine-tuning of ZIF-8 Structure with Enhanced Oxygen Reduction Activity. Electrochimica Acta, 2017, 251, 498-504.	5.2	91
45	Sodium chloride-assisted green synthesis of a 3D Feâ€“Nâ€“C hybrid as a highly active electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 7781-7787.	10.3	88
46	Influence of Phosphorus Configuration on Electronic Structure and Oxygen Reduction Reactions of Phosphorus-Doped Graphene. Journal of Physical Chemistry C, 2017, 121, 19321-19328.	3.1	86
47	Rationally design of monometallic NiO-Ni3S2/NF heteronanosheets as bifunctional electrocatalysts for overall water splitting. Journal of Catalysis, 2019, 369, 345-351.	6.2	84
48	Preparation of Hollow Nitrogen Doped Carbon via Stresses Induced Orientation Contraction. Small, 2018, 14, e1804183.	10.0	83
49	Rational design of porous Ni-Co-Fe ternary metal phosphides nanobricks as bifunctional electrocatalysts for efficient overall water splitting. Applied Catalysis B: Environmental, 2022, 310, 121353.	20.2	82
50	Trimetallic PtCuCo hollow nanospheres with a dendritic shell for enhanced electrocatalytic activity toward ethylene glycol electrooxidation. Nanoscale, 2015, 7, 9985-9989.	5.6	80
51	Self-standing FeCo Prussian blue analogue derived FeCo/C and FeCoP/C nanosheet arrays for cost-effective electrocatalytic water splitting. Electrochimica Acta, 2019, 302, 45-55.	5.2	80
52	Surface Ru enriched structurally ordered intermetallic PtFe@PtRuFe core-shell nanostructure boosts methanol oxidation reaction catalysis. Applied Catalysis B: Environmental, 2019, 252, 120-127.	20.2	80
53	Three-Dimensional Fe,N-Decorated Carbon-Supported NiFeP Nanoparticles as an Efficient Bifunctional Catalyst for Rechargeable Zincâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 699-705.	8.0	80
54	Exploring Feâ€“N_x for Peroxide Reduction: Templateâ€Free Synthesis of Feâ€“N_x Traumatized Mesoporous Carbon Nanotubes as an ORR Catalyst in Acidic and Alkaline Solutions. Chemistry - A European Journal, 2018, 24, 10630-10635.	3.3	79

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55	Three-dimensional Core@Shell Co@CoMoO4 nanowire arrays as efficient alkaline hydrogen evolution electro-catalysts. Applied Catalysis B: Environmental, 2019, 246, 41-49.	20.2	78
56	Pt-WC/C as a cathode electrocatalyst for hydrogen production by methanol electrolysis. Journal of Power Sources, 2007, 166, 458-461.	7.8	75
57	Catalyst Engineering for Electrochemical Energy Conversion from Water to Water: Water Electrolysis and the Hydrogen Fuel Cell. Engineering, 2020, 6, 653-679.	6.7	75
58	Enhanced dispersion and durability of Pt nanoparticles on a thiolated CNT support. Chemical Communications, 2011, 47, 10984.	4.1	73
59	In situ nitrogen-doped nanoporous carbon nanocables as an efficient metal-free catalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 10154.	10.3	73
60	Sodium borohydride hydrolysis on highly efficient Coâ€“B/Pd catalysts. International Journal of Hydrogen Energy, 2008, 33, 4048-4054.	7.1	72
61	Water-Insoluble Organics Dominate Brown Carbon in Wintertime Urban Aerosol of China: Chemical Characteristics and Optical Properties. Environmental Science & Technology, 2020, 54, 7836-7847.	10.0	72
62	Carbon-based air electrodes carrying MnO2 in zincâ€“air batteries. Journal of Power Sources, 2000, 91, 83-85.	7.8	69
63	Self-terminated activation for high-yield production of N,P-codoped nanoporous carbon as an efficient metal-free electrocatalyst for Zn-air battery. Carbon, 2018, 128, 97-105.	10.3	69
64	In situ growth of ruthenium oxide-nickel oxide nanorod arrays onÂnickel foam as a binder-free integrated cathode for hydrogen evolution. Journal of Power Sources, 2015, 274, 114-120.	7.8	67
65	Recent Progress of Carbonâ€Based Materials in Oxygen Reduction Reaction Catalysis. ChemElectroChem, 2018, 5, 1764-1774.	3.4	66
66	Label-free aptamer biosensor for thrombin detection based on functionalized graphene nanocomposites. Talanta, 2015, 141, 247-252.	5.5	65
67	Graphitized carbon-coated vanadium carbide nanoboscages modified by nickel with enhanced electrocatalytic activity for hydrogen evolution in both acid and alkaline solutions. Journal of Materials Chemistry A, 2017, 5, 23028-23034.	10.3	65
68	Understanding the Roles of Nitrogen Configurations in Hydrogen Evolution: Trace Atomic Cobalt Boosts the Activity of Planar Nitrogen-Doped Graphene. ACS Energy Letters, 2018, 3, 1345-1352.	17.4	65
69	Pt/C trapped in activated graphitic carbon layers as a highly durable electrocatalyst for the oxygen reduction reaction. Chemical Communications, 2014, 50, 15431-15434.	4.1	64
70	Nitrogen-doped carbon nanotubes as catalysts for oxygen reduction reaction. Journal of Power Sources, 2012, 215, 216-220.	7.8	62
71	Strongly coupled iron selenides-nitrogen-bond as an electronic transport bridge for enhanced synergistic oxygen electrocatalysis in rechargeable zinc-O2 batteries. Applied Catalysis B: Environmental, 2020, 265, 118569.	20.2	62
72	Controlled synthesis of hollow micro/meso-pore nitrogen-doped carbon with tunable wall thickness and specific surface area as efficient electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 2433-2437.	10.3	61

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73	Improved kinetics of methanol oxidation on Pt/hollow carbon sphere catalysts. Electrochimica Acta, 2008, 53, 8341-8345.	5.2	60
74	Controlled synthesis of single cobalt atom catalysts via a facile one-pot pyrolysis for efficient oxygen reduction and hydrogen evolution reactions. Science Bulletin, 2019, 64, 1095-1102.	9.0	59
75	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. Journal of Materials Chemistry, 2012, 22, 20634.	6.7	58
76	In situ growth of vertically aligned FeCoOOH-nanosheets/nanoflowers on Fe,ÂN co-doped 3D-porous carbon as efficient bifunctional electrocatalysts for rechargeable zincâ€“O₂ batteries. Journal of Materials Chemistry A, 2019, 7, 9497-9502.	10.3	58
77	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
78	Gel based sulfur cathodes with a high sulfur content and large mass loading for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 1650-1657.	10.3	56
79	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
80	Green and facile synthesis of iron oxide nanoparticle-embedded N-doped biocarbon as an efficient oxygen reduction electrocatalyst for microbial fuel cells. Chemical Engineering Journal, 2020, 385, 123393.	12.7	56
81	A general strategy to enhance the alkaline stability of anion exchange membranes. Journal of Materials Chemistry A, 2017, 5, 6318-6327.	10.3	55
82	Tuning the branches and composition of PtCu nanodendrites through underpotential deposition of Cu towards advanced electrocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 9014-9021.	10.3	55
83	Ultrahighâ€Loading Zinc Singleâ€Atom Catalyst for Highly Efficient Oxygen Reduction in Both Acidic and Alkaline Media. Angewandte Chemie, 2019, 131, 7109-7113.	2.0	55
84	Enhanced Conductivity of Anion-Exchange Membrane by Incorporation of Quaternized Cellulose Nanocrystal. ACS Applied Materials & Interfaces, 2018, 10, 23774-23782.	8.0	54
85	Accelerated alkaline hydrogen evolution on M(OH)_x/M-MoPO_x (M = Ni, Co, Fe,) Tj ETQq1 1 0.784314 rgBT /O Science, 2020, 11, 2487-2493.	7.4	54
86	Synthesis of ammonia via electrochemical nitrogen reduction on high-index faceted Au nanoparticles with a high faradaic efficiency. Chemical Communications, 2019, 55, 14482-14485.	4.1	52
87	Enhanced Photocatalytic Activity of Nanoparticle-Aggregated Agâ€“AgX(XÂ=ÂCl, Br)@TiO2 Microspheres Under Visible Light. Nano-Micro Letters, 2017, 9, 49.	27.0	50
88	Realâ€Time Probing Nanoporeâ€inâ€Nanogap Plasmonic Coupling Effect on Silver Supercrystals with Surfaceâ€Enhanced Raman Spectroscopy. Advanced Functional Materials, 2017, 27, 1603233.	14.9	50
89	Role of P-doping in Antipoisoning: Efficient MOF-Derived 3D Hierarchical Architectures for the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2019, 123, 16796-16803.	3.1	50
90	A catalyst superior to carbon-supported-platinum for promotion of the oxygen reduction reaction: reduced-polyoxometalate supported palladium. Journal of Materials Chemistry A, 2015, 3, 13962-13969.	10.3	49

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91	Roles of H₂in annealing and growth times of graphene CVD synthesis over copper foil. Journal of Materials Chemistry A, 2014, 2, 16208-16216.	10.3	48
92	NaCl protected synthesis of 3D hierarchical metal-free porous nitrogen-doped carbon catalysts for the oxygen reduction reaction in acidic electrolyte. Chemical Communications, 2019, 55, 9023-9026.	4.1	48
93	Wavy PtCu alloy nanowire networks with abundant surface defects enhanced oxygen reduction reaction. Nano Research, 2019, 12, 2766-2773.	10.4	48
94	Leaching- and sintering-resistant hollow or structurally ordered intermetallic PtFe alloy catalysts for oxygen reduction reactions. Nanoscale, 2019, 11, 20115-20122.	5.6	48
95	Self-deposition of Pt nanocrystals on Mn3O4 coated carbon nanotubes for enhanced oxygen reduction electrocatalysis. Journal of Materials Chemistry A, 2013, 1, 7463.	10.3	47
96	A CO-tolerant PtRu catalyst supported on thiol-functionalized carbon nanotubes for the methanol oxidation reaction. Journal of Power Sources, 2014, 247, 360-364.	7.8	47
97	High Selective Electrochemical Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol on RuO₂â€“SnO₂â€“TiO₂/Ti Electrode. ACS Catalysis, 2019, 9, 11307-11316.	11.2	47
98	Role of non-metallic atoms in enhancing the catalytic activity of nickel-based compounds for hydrogen evolution reaction. Chemical Science, 2018, 9, 1822-1830.	7.4	46
99	Construction of Soft Base Tongs on Separator to Grasp Polysulfides from Shuttling in Lithiumâ€“Sulfur Batteries. Small, 2018, 14, e1804277.	10.0	46
100	Transformation of Metalâ€“Organic Frameworks into Huge-Diameter Carbon Nanotubes with High Performance in Proton Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 22290-22296.	8.0	45
101	High-density active sites porous Fe/N/C electrocatalyst boosting the performance of proton exchange membrane fuel cells. Journal of Power Sources, 2018, 401, 287-295.	7.8	44
102	Enveloping ultrathin Ti₃C₂ nanosheets on carbon fibers: a high-density sulfur loaded lithiumâ€“sulfur battery cathode with remarkable cycling stability. Journal of Materials Chemistry A, 2020, 8, 7253-7260.	10.3	44
103	Interphase-oxidized ruthenium metal with half-filled d-orbitals for hydrogen oxidation in an alkaline solution. Journal of Materials Chemistry A, 2020, 8, 10168-10174.	10.3	44
104	Recent developments in the use of single-atom catalysts for water splitting. Chinese Journal of Catalysis, 2021, 42, 1269-1286.	14.0	44
105	Theoretically probing the possible degradation mechanisms of an FeNC catalyst during the oxygen reduction reaction. Chemical Science, 2021, 12, 12476-12484.	7.4	42
106	Novel, recyclable supramolecular metal complexes for the synthesis of cyclic carbonates from epoxides and CO 2 under solvent-free conditions. Journal of CO2 Utilization, 2017, 17, 243-255.	6.8	41
107	Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. Chemistry - A European Journal, 2019, 25, 9799-9815.	3.3	41
108	A general method to construct single-atom catalysts supported on N-doped graphene for energy applications. Journal of Materials Chemistry A, 2020, 8, 6190-6195.	10.3	41

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109	Insights into Bacterial 6-Methylsalicylic Acid Synthase and Its Engineering to Orsellinic Acid Synthase for Spirotetronate Generation. Chemistry and Biology, 2010, 17, 495-503.	6.0	40
110	Space-Confined Pyrolysis for the Fabrication of Fe/N/C Nanoparticles as a High Performance Oxygen Reduction Reaction Electrocatalyst. Electrochimica Acta, 2017, 244, 47-53.	5.2	40
111	Efficient solvent-free fixation of CO2 into cyclic carbonates catalyzed by Bi(III) porphyrin/TBAI at atmospheric pressure. Molecular Catalysis, 2017, 432, 37-46.	2.0	39
112	Tuning the interface of Ni@Ni(OH) 2 /Pd/rGO catalyst to enhance hydrogen evolution activity and stability. Journal of Power Sources, 2017, 352, 26-33.	7.8	39
113	A comparative DFT study of the catalytic activity of MnO2 (211) and (2-2-1) surfaces for an oxygen reduction reaction. Chemical Physics Letters, 2012, 539-540, 89-93.	2.6	38
114	Sputtering nickel-molybdenum nanorods as an excellent hydrogen evolution reaction catalyst. Journal of Power Sources, 2015, 297, 413-418.	7.8	38
115	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 8405-8412.	10.3	38
116	A phase-transition-assisted method for the rational synthesis of nitrogen-doped hierarchically porous carbon materials for the oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 878-883.	10.3	38
117	Efficient Electrochemical Hydrogenation of Nitroaromatics into Arylamines on a CuCo₂O₄ Spinel Cathode in an Alkaline Electrolyte. ACS Catalysis, 2022, 12, 58-65.	11.2	38
118	A neural-network-like catalyst structure for the oxygen reduction reaction: carbon nanotube bridged hollow PtCo alloy nanoparticles in a MOF-like matrix for energy technologies. Journal of Materials Chemistry A, 2019, 7, 19786-19792.	10.3	37
119	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
120	Recent Progress in Precious Metalâ€Free Carbonâ€Based Materials towards the Oxygen Reduction Reaction: Activity, Stability, and Antiâ€Poisoning. Chemistry - A European Journal, 2020, 26, 3973-3990.	3.3	36
121	Fe₃O₄/FeS₂ heterostructures enable efficient oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 14145-14151.	10.3	36
122	Scalable synthesis of Cu-based ultrathin nanowire networks and their electrocatalytic properties. Nanoscale, 2016, 8, 4927-4932.	5.6	35
123	Role of Hydroxyl Species in Hydrogen Oxidation Reaction: A DFT Study. Journal of Physical Chemistry C, 2019, 123, 23931-23939.	3.1	35
124	Manipulating the surface composition of Ptâ€“Ru bimetallic nanoparticles to control the methanol oxidation reaction pathway. Chemical Communications, 2020, 56, 2419-2422.	4.1	35
125	Sn and Sb co-doped RuTi oxides supported on TiO2 nanotubes anode for selectivity toward electrocatalytic chlorine evolution. Journal of Applied Electrochemistry, 2013, 43, 847-854.	2.9	34
126	Selfâ€assemblyâ€•and Preshapingâ€assisted Synthesis of Molybdenum Carbide Supported on Ultrathin Nitrogenâ€doped Graphitic Carbon Lamellas for the Hydrogen Evolution Reaction. ChemCatChem, 2017, 9, 1588-1593.	3.7	34

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127	Hierarchical coral-like FeNi(OH) /Ni via mild corrosion of nickel as an integrated electrode for efficient overall water splitting. Chinese Journal of Catalysis, 2018, 39, 1736-1745.	14.0	34
128	Pd-induced Pt(iv) reduction to form Pd@Pt/CNT core@shell catalyst for a more complete oxygen reduction. Journal of Materials Chemistry A, 2013, 1, 14443.	10.3	33
129	Carbon supported IrM (M = Fe, Ni, Co) alloy nanoparticles for the catalysis of hydrogen oxidation in acidic and alkaline medium. Chinese Journal of Catalysis, 2016, 37, 1142-1148.	14.0	33
130	Bimetallic Mn and Co encased within bamboo-like N-doped carbon nanotubes as efficient oxygen reduction reaction electrocatalysts. Journal of Colloid and Interface Science, 2019, 537, 238-246.	9.4	33
131	Revealing the Regulation Mechanism of Irâ€“MoO₂ Interfacial Chemical Bonding for Improving Hydrogen Oxidation Reaction. ACS Catalysis, 2021, 11, 14932-14940.	11.2	33
132	RuTe/M (M = Pt, Pd) nanoparticle nanotubes with enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 13642-13647.	10.3	32
133	Highly active electrocatalysis of hydrogen evolution reaction in alkaline medium by Niâ€“P alloy: A capacitance-activity relationship. Journal of Energy Chemistry, 2017, 26, 1245-1251.	12.9	32
134	Construction of a porous nitrogen-doped carbon nanotube with open-ended channels to effectively utilize the active sites for excellent oxygen reduction reaction activity. Chemical Communications, 2017, 53, 11426-11429.	4.1	32
135	Copper Foam Electrodes for Increased Power Generation in Thermally Regenerative Ammonia-Based Batteries for Low-Grade Waste Heat Recovery. Industrial & Engineering Chemistry Research, 2019, 58, 7408-7415.	3.7	32
136	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
137	Activating COOH* intermediate by Ni/Ni3ZnC0.7 heterostructure in porous N-doped carbon nanofibers for boosting CO2 electroreduction. Applied Catalysis B: Environmental, 2022, 302, 120861.	20.2	32
138	Enhanced catalysis of radical-to-polysulfide interconversion via increased sulfur vacancies in lithiumâ€“sulfur batteries. Chemical Science, 2022, 13, 6224-6232.	7.4	32
139	Multi-walled carbon nanotube supported Pd nanocubes with enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 4485-4489.	10.3	31
140	A DNAâ€Based and Electrochemically Transduced Keypad Lock System with Reset Function. Chemistry - A European Journal, 2012, 18, 14939-14942.	3.3	30
141	Bimetallic PdRu nanosponges with a tunable composition for ethylene glycol oxidation. RSC Advances, 2016, 6, 12486-12490.	3.6	30
142	Preparation of highly dispersed carbon supported AuPt nanoparticles via a capping agent-free route for efficient methanol oxidation. Journal of Materials Chemistry A, 2018, 6, 104-109.	10.3	30
143	Generation of three dimensional pore-controlled nitrogen-doped graphene hydrogels for high-performance supercapacitors by employing formamide as the modulator. Journal of Materials Chemistry A, 2017, 5, 1442-1445.	10.3	29
144	Thermally driven interfacial diffusion synthesis of nitrogen-doped carbon confined trimetallic Pt₃CoRu composites for the methanol oxidation reaction. Journal of Materials Chemistry A, 2019, 7, 18143-18149.	10.3	29

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145	Dispersive Single-Atom Metals Anchored on Functionalized Nanocarbons for Electrochemical Reactions. Topics in Current Chemistry, 2019, 377, 4.	5.8	29
146	Understanding the effect of interfacial interaction on metal/metal oxide electrocatalysts for hydrogen evolution and hydrogen oxidation reactions on the basis of first-principles calculations. Catalysis Science and Technology, 2020, 10, 4743-4751.	4.1	29
147	Aromatic Residues Regulating Electron Relay Ability of S-Containing Amino Acids by Formations of Sâ^Ï€ Multicenter Three-Electron Bonds in Proteins. Journal of Physical Chemistry C, 2012, 116, 19682-19688.	3.1	28
148	Engineering self-assembled N-doped grapheneâ€“carbon nanotube composites towards efficient oxygen reduction electrocatalysts. Physical Chemistry Chemical Physics, 2014, 16, 13605-13609.	2.8	28
149	Cross-linked multi-atom Pt catalyst for highly efficient oxygen reduction catalysis. Applied Catalysis B: Environmental, 2021, 284, 119728.	20.2	28
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