

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
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280
all docs

280
docs citations

280
times ranked

17766
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasoning Chinese cooking pans: The nanoscience behind the Kitchen God's blessing. <i>Nano Materials Science</i> , 2023, 5, 86-90.	8.8	1
2	DFT study on ORR catalyzed by bimetallic Pt-skin metals over substrates of Ir, Pd and Au. <i>Nano Materials Science</i> , 2023, 5, 287-292.	8.8	12
3	Integrating H ₂ O ₂ generation from electrochemical oxygen reduction with the selective oxidation of organics in a dual-membrane reactor. <i>Chemical Engineering Journal</i> , 2022, 428, 131534.	12.7	16
4	Hierarchical 3D porous carbon with facily accessible Fe ^{N₄} single-atom sites for Zn ^{air} batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5925-5929.	10.3	37
5	Activating COOH* intermediate by Ni/Ni ₃ ZnCo ₇ heterostructure in porous N-doped carbon nanofibers for boosting CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120861.	20.2	32
6	High-loading Pt-alloy catalysts for boosted oxygen reduction reaction performance. <i>Chinese Journal of Chemical Engineering</i> , 2022, 48, 30-35.	3.5	5
7	Single-atom alloying sprinkles magic over copper for exclusive CO ₂ conversion to pure formic acid. <i>Science China Chemistry</i> , 2022, 65, 421-422.	8.2	2
8	Ultrathin and Super Strong UHMWPE Supported Composite Anion Exchange Membranes with Outstanding Fuel Cells Performance. <i>Small</i> , 2022, 18, e2105499.	10.0	24
9	Interfacial Water Enrichment and Reorientation on Pt/C Catalysts Induced by Metal Oxides Participation for Boosting the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1069-1076.	4.6	15
10	Phosphonate/Phosphine Oxide Dyad Additive for Efficient Perovskite Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
11	Chemical signature and fractionation of trace elements in fine particles from anthropogenic and natural sources. <i>Journal of Environmental Sciences</i> , 2022, 114, 365-375.	6.1	1
12	Triathlete for the Oxygen Reduction Reaction in Zinc ^{air} Fuel Cells. <i>Macromolecules</i> , 2022, 55, 2524-2532.	4.8	1
13	Rational design of porous Ni-Co-Fe ternary metal phosphides nanobricks as bifunctional electrocatalysts for efficient overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121353.	20.2	82
14	Separators Based on the Dynamic Tip-Occupying Electrostatic Shield Effect for Dendrite-Free Lithium-Metal Batteries. <i>Advanced Sustainable Systems</i> , 2022, 6, 2100386.	5.3	1
15	Efficient Electrochemical Hydrogenation of Nitroaromatics into Arylamines on a CuCo ₂ O ₄ Spinel Cathode in an Alkaline Electrolyte. <i>ACS Catalysis</i> , 2022, 12, 58-65.	11.2	38
16	Chromophoric Fingerprinting of Brown Carbon from Residential Biomass Burning. <i>Environmental Science and Technology Letters</i> , 2022, 9, 102-111.	8.7	20
17	Enhanced catalysis of radical-to-polysulfide interconversion <i>via</i> increased sulfur vacancies in lithium-sulfur batteries. <i>Chemical Science</i> , 2022, 13, 6224-6232.	7.4	32
18	Dual-Cation Interpenetrating Polymer Network Anion Exchange Membrane for Fuel Cells and Water Electrolyzers. <i>Macromolecules</i> , 2022, 55, 4647-4655.	4.8	16

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19	Atomically dispersed Pt and Fe sites and Pt@Fe nanoparticles for durable proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2022, 5, 503-512.	34.4	155
20	Anion Exchange Membranes Synthesized by Acetalization of Poly(vinyl alcohol) for Fuel Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 7748-7757.	5.1	7
21	Constructing Ni-VN interfaces with superior electrocatalytic activity for alkaline hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 486-493.	9.4	3
22	Coating layer-free synthesis of sub-4 nm ordered intermetallic L10-PtCo catalyst for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27116-27123.	7.1	6
23	Modulating the microenvironment structure of single Zn atom: ZnN4P/C active site for boosted oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2022, 43, 2193-2201.	14.0	23
24	Insight into the boosted activity of TiO2@CoP composites for hydrogen evolution reaction: Accelerated mass transfer, optimized interfacial water, and promoted intrinsic activity. <i>Journal of Energy Chemistry</i> , 2022, 74, 111-120.	12.9	10
25	Cross-linked multi-atom Pt catalyst for highly efficient oxygen reduction catalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119728.	20.2	28
26	Precisely tuning the electronic structure of a structurally ordered PtCoFe alloy via a dual-component promoter strategy for oxygen reduction. <i>Chemical Communications</i> , 2021, 57, 4047-4050.	4.1	17
27	Theoretically probing the possible degradation mechanisms of an FeNC catalyst during the oxygen reduction reaction. <i>Chemical Science</i> , 2021, 12, 12476-12484.	7.4	42
28	Superaerophobic NiCo bimetallic phosphides for highly efficient hydrogen evolution reaction electrocatalysts. <i>Chemical Communications</i> , 2021, 57, 6173-6176.	4.1	13
29	Lattice-matching Ni-based scaffold with a spongy cover for uniform electric field against lithium dendrites. <i>Chemical Communications</i> , 2021, 57, 9442-9445.	4.1	5
30	Construction of highly efficient ion channel within anion exchange membrane based on interpenetrating polymer network for H2/Air (CO2-free) alkaline fuel cell. <i>Journal of Power Sources</i> , 2021, 486, 229377.	7.8	19
31	The formation and evolution of secondary organic aerosol during summer in Xi'an: Aqueous phase processing in fog-rain days. <i>Science of the Total Environment</i> , 2021, 756, 144077.	8.0	19
32	Polymer-coating-induced synthesis of FeNx enriched carbon nanotubes as cathode that exceeds 1.0 W cm ⁻² peak power in both proton and anion exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 489, 229499.	7.8	17
33	Recent Progress of DNA Nanostructures on Amphiphilic Membranes. <i>Macromolecular Bioscience</i> , 2021, 21, e2000440.	4.1	7
34	Solid-State Synthesis of Highly Dispersed Nitrogen-Coordinated Single Iron Atom Electrocatalysts for Proton Exchange Membrane Fuel Cells. <i>Nano Letters</i> , 2021, 21, 3633-3639.	9.1	32
35	Recent Advances in Nanoparticles Confined in Two-Dimensional Materials as High-Performance Electrocatalysts for Energy Conversion Technologies. <i>ChemCatChem</i> , 2021, 13, 2541-2558.	3.7	4
36	Acrylonitrile Conversion on Metal Cathodes: How Surface Adsorption Determines the Reduction Pathways. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8324-8330.	3.7	8

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37	DNA-organic molecular amphiphiles: Synthesis, self-assembly, and hierarchical aggregates. <i>Aggregate</i> , 2021, 2, e95.	9.9	17
38	Recent developments in the use of single-atom catalysts for water splitting. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1269-1286.	14.0	44
39	Poly(vinyl alcohol)-Based Hydrogel Anion Exchange Membranes for Alkaline Fuel Cell. <i>Macromolecules</i> , 2021, 54, 7900-7909.	4.8	25
40	Engineering Pt-Bi ₂ O ₃ Interface to Boost Cyclohexanone Selectivity in Oxidative Dehydrogenation of KA-Oil. <i>Catalysts</i> , 2021, 11, 1187.	3.5	2
41	Catalytic activity of V ₂ CO ₂ MXene supported transition metal single atoms for oxygen reduction and hydrogen oxidation reactions: A density functional theory calculation study. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1659-1666.	14.0	21
42	Concentrations, optical properties and sources of humic-like substances (HULIS) in fine particulate matter in Xi'an, Northwest China. <i>Science of the Total Environment</i> , 2021, 789, 147902.	8.0	10
43	Engineering multi-hollow PtCo nanoparticles for oxygen reduction reaction via a NaCl-sealed annealing strategy. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161063.	5.5	13
44	A framework ensemble facilitates high Pt utilization in a low Pt loading fuel cell. <i>Catalysis Science and Technology</i> , 2021, 11, 2957-2963.	4.1	10
45	Advancements in the preparation methods of artificial cell membranes with lipids. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5233-5246.	5.9	18
46	Maximizing metal utilization by coupling cross-linked PtRu multi-atom on an atomically dispersed ZnFeNC support. <i>Dalton Transactions</i> , 2021, 50, 10354-10358.	3.3	1
47	A bimodal-pore strategy for synthesis of Pt ₃ Co/C electrocatalyst toward oxygen reduction reaction. <i>Chemical Communications</i> , 2021, 57, 4327-4330.	4.1	7
48	Hydrogen-Mediated Synthesis of 3D Hierarchical Porous Zinc Catalyst for CO ₂ Electroreduction with High Current Density. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23784-23790.	3.1	12
49	Achievements in Pt nanoalloy oxygen reduction reaction catalysts: strain engineering, stability and atom utilization efficiency. <i>Chemical Communications</i> , 2021, 57, 12898-12913.	4.1	21
50	Densely vertical-grown NiFe hydroxide nanosheets on a 3D nickel skeleton as a dendrite-free lithium anode. <i>Chemical Communications</i> , 2021, 57, 12988-12991.	4.1	0
51	Revealing the Regulation Mechanism of Ir-MoO ₂ Interfacial Chemical Bonding for Improving Hydrogen Oxidation Reaction. <i>ACS Catalysis</i> , 2021, 11, 14932-14940.	11.2	33
52	3D Net-like GO-d-Ti ₃ C ₂ T _x MXene Aerogels with Catalysis/Adsorption Dual Effects for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55235-55242.	8.0	11
53	Molten-Salt-Assisted Synthesis of Nitrogen-Doped Carbon Nanosheets Derived from Biomass Waste of Ginkgo Shells as Efficient Catalyst for Oxygen Reduction Reaction. <i>Processes</i> , 2021, 9, 2124.	2.8	3
54	Recent Progress in Precious Metal-Free Carbon-Based Materials towards the Oxygen Reduction Reaction: Activity, Stability, and Anti-Poisoning. <i>Chemistry - A European Journal</i> , 2020, 26, 3973-3990.	3.3	36

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55	Improved hydrogen oxidation reaction under alkaline conditions by Au@Pt alloy nanoparticles. <i>Journal of Energy Chemistry</i> , 2020, 40, 52-56.	12.9	25
56	Recent progress of mesoscience in design of electrocatalytic materials for hydrogen energy conversion. <i>Particuology</i> , 2020, 48, 19-33.	3.6	12
57	Green and facile synthesis of iron oxide nanoparticle-embedded N-doped biocarbon as an efficient oxygen reduction electrocatalyst for microbial fuel cells. <i>Chemical Engineering Journal</i> , 2020, 385, 123393.	12.7	56
58	Transforming Ni-Coagulated Polyferriertic Sulfate Sludge into Porous Heteroatom-Doped Carbon-Supported Transition Metal Phosphide: An Efficient Catalyst for Oxygen Evolution Reaction. <i>Energy Technology</i> , 2020, 8, 1900995.	3.8	7
59	Coverage-dependent acrylonitrile adsorption and electrochemical reduction kinetics on Pb electrode. <i>Chemical Engineering Journal</i> , 2020, 382, 123006.	12.7	10
60	Strongly coupled iron selenides-nitrogen-bond as an electronic transport bridge for enhanced synergistic oxygen electrocatalysis in rechargeable zinc-O ₂ batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118569.	20.2	62
61	Achieving High Conductivity at Low Ion Exchange Capacity for Anion Exchange Membranes with Electrospun Polyelectrolyte Nanofibers. <i>ACS Applied Energy Materials</i> , 2020, 3, 10660-10668.	5.1	15
62	Fe-N-doped carbon nanoparticles from coal tar soot and its novel application as a high performance air-cathode catalyst for microbial fuel cells. <i>Electrochimica Acta</i> , 2020, 363, 137177.	5.2	10
63	Durable hybrid electrocatalysts for proton exchange membrane fuel cells. <i>Nano Energy</i> , 2020, 77, 105192.	16.0	21
64	Mo ₂ N-Ni/NF Heterostructure Boosts Electrocatalytic Hydrogen Evolution with Pt-Like Activity. <i>Inorganic Chemistry</i> , 2020, 59, 16514-16521.	4.0	14
65	Boosting Hydrogen Evolution Reaction of Nickel Sulfides by Introducing Nonmetallic Dopants. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24223-24231.	3.1	8
66	Lithium electrodeposited on lithiophilic LTO/Ti ₃ C ₂ substrate as a dendrite-free lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20650-20657.	10.3	11
67	Surface-confined Pt-based catalysts for strengthening oxygen reduction performance. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 796-806.	4.4	19
68	Self-Aggregation to Construct Hydroxide Highways in Anion Exchange Membranes. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902143.	3.7	21
69	Water-Insoluble Organics Dominate Brown Carbon in Wintertime Urban Aerosol of China: Chemical Characteristics and Optical Properties. <i>Environmental Science & Technology</i> , 2020, 54, 7836-7847.	10.0	72
70	Integrating H ₂ generation with sewage disposal by an efficient anti-poisoning bifunctional electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119175.	20.2	18
71	Fe ₃ O ₄ /FeS ₂ heterostructures enable efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14145-14151.	10.3	36
72	Effect of n-butanol cofeeding on the deactivation of methanol to olefin conversion over high-silica HZSM-5: A mechanism and kinetic study. <i>Chemical Engineering Science</i> , 2020, 226, 115859.	3.8	10

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73	Enveloping ultrathin Ti ₃ C ₂ nanosheets on carbon fibers: a high-density sulfur loaded lithium-sulfur battery cathode with remarkable cycling stability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7253-7260.	10.3	44
74	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. <i>Catalysis Science and Technology</i> , 2020, 10, 4743-4751.	4.1	29
75	Preparation of monodisperse ferrous nanoparticles embedded in carbon aerogels <i>via in situ</i> solid phase polymerization for electrocatalytic oxygen reduction. <i>Nanoscale</i> , 2020, 12, 15318-15324.	5.6	6
76	ZIF derived mesoporous carbon frameworks with numerous edges and heteroatom-doped sites to anchor nano-Pt electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22649-22657.	7.1	15
77	A general method to construct single-atom catalysts supported on N-doped graphene for energy applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6190-6195.	10.3	41
78	Functional Group Modification of Kraft Lignin for Enhanced Supercapacitors. <i>ChemSusChem</i> , 2020, 13, 2628-2633.	6.8	22
79	Manipulating the surface composition of Pt-Ru bimetallic nanoparticles to control the methanol oxidation reaction pathway. <i>Chemical Communications</i> , 2020, 56, 2419-2422.	4.1	35
80	Amorphous FeO _x (<i>x</i> = 1, 1.5) coated Cu ₃ P nanosheets with bamboo leaves-like morphology induced by solvent molecule adsorption for highly active HER catalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3351-3356.	10.3	17
81	Accelerated alkaline hydrogen evolution on M(OH) _x /M-MoPO _x (M = Ni, Co, Fe). <i>Journal of Materials Chemistry A</i> , 2020, 11, 2487-2493.	7.4	54
82	ZnCl ₂ salt facilitated preparation of FeNC: Enhancing the content of active species and their exposure for highly-efficient oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2020, 41, 799-806.	14.0	24
83	Interphase-oxidized ruthenium metal with half-filled d-orbitals for hydrogen oxidation in an alkaline solution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10168-10174.	10.3	44
84	Lattice-confined Ru clusters with high CO tolerance and activity for the hydrogen oxidation reaction. <i>Nature Catalysis</i> , 2020, 3, 454-462.	34.4	282
85	Balancing the Seesaw: Investigation of a Separator to Grasp Polysulfides with Diatomic Chemisorption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20596-20604.	8.0	12
86	Catalyst Engineering for Electrochemical Energy Conversion from Water to Water: Water Electrolysis and the Hydrogen Fuel Cell. <i>Engineering</i> , 2020, 6, 653-679.	6.7	75
87	Phytic acid-assisted self-templating synthesis of N-P-Fe-tridoped hierarchical porous carbon for efficient oxygen reduction reaction. <i>Journal of Power Sources</i> , 2020, 451, 227808.	7.8	15
88	Heteroatom Modification of Nanoporous Nickel Surfaces for Electrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2020, 3, 11298-11306.	5.0	11
89	Anion Exchange Membrane Based on Interpenetrating Polymer Network with Ultrahigh Ion Conductivity and Excellent Stability for Alkaline Fuel Cell. <i>Research</i> , 2020, 2020, 4794706.	5.7	24
90	Research Progress of Hydrogen Oxidation and Hydrogen Evolution Reaction Mechanism in Alkaline Media. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2020, .	4.9	7

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91	Frontispiece: Recent Progress in Precious Metal-Free Carbon-Based Materials towards the Oxygen Reduction Reaction: Activity, Stability, and Anti-Poisoning. Chemistry - A European Journal, 2020, 26, .	3.3	0
92	Electrocatalytic Hydrogen Evolution in Neutral pH Solutions: Dual-Phase Synergy. ACS Catalysis, 2019, 9, 8712-8718.	11.2	103
93	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
94	Microstructural Evolution of Au@Pt Core-Shell Nanoparticles under Electrochemical Polarization. ACS Applied Materials & Interfaces, 2019, 11, 30977-30986.	8.0	21
95	Thermally driven interfacial diffusion synthesis of nitrogen-doped carbon confined trimetallic Pt ₃ CoRu composites for the methanol oxidation reaction. Journal of Materials Chemistry A, 2019, 7, 18143-18149.	10.3	29
96	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
97	The Role of Polyaniline Molecular Structure in Producing High-Performance Fe-N-C Catalysts for Oxygen Reduction Reaction. ChemistrySelect, 2019, 4, 8135-8141.	1.5	8
98	Frontispiece: Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. Chemistry - A European Journal, 2019, 25, .	3.3	1
99	High Selective Electrochemical Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol on RuO ₂ -SnO ₂ -TiO ₂ /Ti Electrode. ACS Catalysis, 2019, 9, 11307-11316.	11.2	47
100	Electronic and Physical Property Manipulations: Recent Achievements towards Heterogeneous Carbon-Based Catalysts for Oxygen Reduction Reaction. ChemCatChem, 2019, 11, 5885-5897.	3.7	26
101	Role of Hydroxyl Species in Hydrogen Oxidation Reaction: A DFT Study. Journal of Physical Chemistry C, 2019, 123, 23931-23939.	3.1	35
102	High temperature self-assembly one-step synthesis of a structurally ordered PtFe catalyst for the oxygen reduction reaction. Chemical Communications, 2019, 55, 12028-12031.	4.1	20
103	Wavy PtCu alloy nanowire networks with abundant surface defects enhanced oxygen reduction reaction. Nano Research, 2019, 12, 2766-2773.	10.4	48
104	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
105	Intrinsic effects of strain on low-index surfaces of platinum: roles of the five 5d orbitals. Physical Chemistry Chemical Physics, 2019, 21, 3242-3249.	2.8	23
106	Systematic exploration of N,C coordination effects on the ORR performance of Mn _x -doped graphene catalysts based on DFT calculations. Physical Chemistry Chemical Physics, 2019, 21, 12826-12836.	2.8	92
107	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
108	Rational construction of macroporous CoFeP triangular plate arrays from bimetal-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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109	Carbon nanotube-linked hollow carbon nanospheres doped with iron and nitrogen as single-atom catalysts for the oxygen reduction reaction in acidic solutions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14478-14482.	10.3	56
110	Transformation of Metal-Organic Frameworks into Huge-Diameter Carbon Nanotubes with High Performance in Proton Exchange Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22290-22296.	8.0	45
111	Enhancing Rate Performances of Carbon Based Supercapacitors. <i>ChemistrySelect</i> , 2019, 4, 6827-6832.	1.5	7
112	Controlled synthesis of single cobalt atom catalysts via a facile one-pot pyrolysis for efficient oxygen reduction and hydrogen evolution reactions. <i>Science Bulletin</i> , 2019, 64, 1095-1102.	9.0	59
113	More than oxygen vacancies: a collective crystal-plane effect of CeO ₂ in gas-phase selective oxidation of benzyl alcohol. <i>Catalysis Science and Technology</i> , 2019, 9, 2960-2967.	4.1	18
114	<i>In situ</i> growth of vertically aligned FeCoOOH-nanosheets/nanoflowers on Fe,N co-doped 3D-porous carbon as efficient bifunctional electrocatalysts for rechargeable zinc-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9497-9502.	10.3	58
115	Ultrahigh-Loading Zinc Single-Atom Catalyst for Highly Efficient Oxygen Reduction in Both Acidic and Alkaline Media. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7035-7039.	13.8	469
116	Ultrahigh-Loading Zinc Single-Atom Catalyst for Highly Efficient Oxygen Reduction in Both Acidic and Alkaline Media. <i>Angewandte Chemie</i> , 2019, 131, 7109-7113.	2.0	55
117	Promoting stability and activity of PtNi/C for oxygen reduction reaction via polyaniline-confined space annealing strategy. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 5921-5928.	7.1	16
118	Surface Ru enriched structurally ordered intermetallic PtFe@PtRuFe core-shell nanostructure boosts methanol oxidation reaction catalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 120-127.	20.2	80
119	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 61, 60-68.	16.0	192
120	Copper Foam Electrodes for Increased Power Generation in Thermally Regenerative Ammonia-Based Batteries for Low-Grade Waste Heat Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7408-7415.	3.7	32
121	Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. <i>Chemistry - A European Journal</i> , 2019, 25, 9799-9815.	3.3	41
122	Synthesis of ammonia <i>via</i> electrochemical nitrogen reduction on high-index faceted Au nanoparticles with a high faradaic efficiency. <i>Chemical Communications</i> , 2019, 55, 14482-14485.	4.1	52
123	Theoretical research on the oxidation mechanism of doped carbon based catalysts for oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26102-26110.	2.8	8
124	Leaching- and sintering-resistant hollow or structurally ordered intermetallic PtFe alloy catalysts for oxygen reduction reactions. <i>Nanoscale</i> , 2019, 11, 20115-20122.	5.6	48
125	Chimney effect of the interface in metal oxide/metal composite catalysts on the hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 122-129.	20.2	132
126	Three-Dimensional Fe,N-Decorated Carbon-Supported NiFeP Nanoparticles as an Efficient Bifunctional Catalyst for Rechargeable Zinc-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 699-705.	8.0	80

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127	Rationally design of monometallic NiO-Ni ₃ S ₂ /NF heteronanosheets as bifunctional electrocatalysts for overall water splitting. <i>Journal of Catalysis</i> , 2019, 369, 345-351.	6.2	84
128	Bimetallic Mn and Co encased within bamboo-like N-doped carbon nanotubes as efficient oxygen reduction reaction electrocatalysts. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 238-246.	9.4	33
129	Dispersive Single-Atom Metals Anchored on Functionalized Nanocarbons for Electrochemical Reactions. <i>Topics in Current Chemistry</i> , 2019, 377, 4.	5.8	29
130	Fast Charge Transfer Confers New Skills on 3D Graphene Sponges: Human Body Induction and Infrared Radiation Induction. <i>ChemNanoMat</i> , 2019, 5, 411-416.	2.8	0
131	Three-dimensional Core@Shell Co@CoMoO ₄ nanowire arrays as efficient alkaline hydrogen evolution electro-catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 41-49.	20.2	78
132	Modifying the sensibility of nonmetal-doped phosphorene by local or global properties. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4899-4906.	2.8	7
133	Nitrogen-doped graphene wrapped around silver nanowires for enhanced catalysis in oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2287-2296.	2.5	16
134	Quantified mass transfer and superior antiflooding performance of ordered macro-mesoporous electrocatalysts. <i>AIChE Journal</i> , 2018, 64, 2881-2889.	3.6	22
135	Inverse Spinel Cobalt-Iron Oxide and N-Doped Graphene Composite as an Efficient and Durable Bifunctional Catalyst for Li-O ₂ Batteries. <i>ACS Catalysis</i> , 2018, 8, 4082-4090.	11.2	122
136	Transition-metal-oxide-based catalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8194-8209.	10.3	259
137	Intelligent Optimization of Na ⁺ Mn ²⁺ W/SiO ₂ Catalysts for the Oxidative Coupling of Methane. <i>ChemNanoMat</i> , 2018, 4, 487-495.	2.8	16
138	An unusual low-surface-area nitrogen doped carbon for ultrahigh gravimetric and volumetric capacitances. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8868-8873.	10.3	18
139	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8405-8412.	10.3	38
140	Synthesis, characterization and photophysical properties of homoleptic platinum(II) complexes with 2,2'-biimidazole-based ligands. <i>Transition Metal Chemistry</i> , 2018, 43, 231-241.	1.4	0
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