

Wei Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

5,779
citations

41
h-index

75
g-index

113
ext. papers

7,361
ext. citations

10.9
avg. IF

6.55
L-index

#	Paper	IF	Citations
103	Metalloporphyrins as Catalytic Models for Studying Hydrogen and Oxygen Evolution and Oxygen Reduction Reactions.. <i>Accounts of Chemical Research</i> , 2022 ,	24.3	10
102	Through-Space Electrostatic Effects of Positively Charged Substituents on the Hydrogen Evolution Reaction.. <i>ChemSusChem</i> , 2022 ,	8.3	1
101	Photochemically Enabled, Ni-Catalyzed Cyanation of Aryl Halides.. <i>Organic Letters</i> , 2022 , 24, 2271-2275	6.2	4
100	Black phosphorus incorporated cobalt oxide: Biomimetic channels for electrocatalytic water oxidation. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1123-1130	11.3	0
99	Cu, Fe Dual-Modified Ni ₃ S ₂ Nanosheets on Nickel Foam for Bifunctional Electrocatalytic Water Spitting. <i>FlatChem</i> , 2022 , 100368	5.1	1
98	Ammonium cobalt phosphate with asymmetric coordination sites for enhanced electrocatalytic water oxidation. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1955-1962	11.3	1
97	Introducing Water-Network-Assisted Proton Transfer for Boosted Electrocatalytic Hydrogen Evolution with Cobalt Corrole.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202114310	16.4	9
96	Controlling Oxygen Reduction Selectivity through Steric Effects: Electrocatalytic Two-Electron and Four-Electron Oxygen Reduction with Cobalt Porphyrin Atropisomers. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12742-12746	16.4	24
95	Highly Curved Nanostructure-Coated Co, N-Doped Carbon Materials for Oxygen Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12759-12764	16.4	42
94	Controlling Oxygen Reduction Selectivity through Steric Effects: Electrocatalytic Two-Electron and Four-Electron Oxygen Reduction with Cobalt Porphyrin Atropisomers. <i>Angewandte Chemie</i> , 2021 , 133, 12852-12856	3.6	2
93	Highly Curved Nanostructure-Coated Co, N-Doped Carbon Materials for Oxygen Electrocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 12869-12874	3.6	8
92	Anion engineering of hierarchical Co-A (A=[D, Se, P]) hexagrams for efficient electrocatalytic oxygen evolution reaction. <i>Chinese Chemical Letters</i> , 2021 , 32, 3241-3241	8.1	0
91	Inherent mass transfer engineering of a Co, N co-doped carbon material towards oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2021 , 58, 391-396	12	2
90	Light-Promoted C-N Coupling of Aryl Halides with Nitroarenes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5230-5234	16.4	23
89	Light-Promoted C-N Coupling of Aryl Halides with Nitroarenes. <i>Angewandte Chemie</i> , 2021 , 133, 5290-5294	16.4	6
88	Nickel selenide from single-molecule electrodeposition for efficient electrocatalytic overall water splitting. <i>New Journal of Chemistry</i> , 2021 , 45, 351-357	3.6	11
87	Significantly boosted oxygen electrocatalysis with cooperation between cobalt and iron porphyrins. <i>Dalton Transactions</i> , 2021 , 50, 5120-5123	4.3	3

86	Porphyrin-based frameworks for oxygen electrocatalysis and catalytic reduction of carbon dioxide. <i>Chemical Society Reviews</i> , 2021 , 50, 2540-2581	58.5	85
85	Enzyme-Inspired Iron Porphyrins for Improved Electrocatalytic Oxygen Reduction and Evolution Reactions. <i>Angewandte Chemie</i> , 2021 , 133, 7654-7659	3.6	2
84	Cobalt porphyrins supported on carbon nanotubes as model catalysts of metal-N4/C sites for oxygen electrocatalysis. <i>Journal of Energy Chemistry</i> , 2021 , 53, 77-81	12	46
83	Enzyme-Inspired Iron Porphyrins for Improved Electrocatalytic Oxygen Reduction and Evolution Reactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7576-7581	16.4	61
82	Substituent position effect of Co porphyrin on oxygen electrocatalysis. <i>Chinese Chemical Letters</i> , 2021 , 32, 2841-2841	8.1	8
81	Chiral Arylated Amines via C-N Coupling of Chiral Amines with Aryl Bromides Promoted by Light. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21536-21542	16.4	3
80	Chiral Arylated Amines via C-N Coupling of Chiral Amines with Aryl Bromides Promoted by Light. <i>Angewandte Chemie</i> , 2021 , 133, 21706-21712	3.6	1
79	O-O bond formation mechanisms during the oxygen evolution reaction over synthetic molecular catalysts. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1253-1268	11.3	30
78	Alkali metal cation effects on electrocatalytic CO ₂ reduction with iron porphyrins. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1439-1444	11.3	10
77	Bioinspired N ₄ -metallomacrocycles for electrocatalytic oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2021 , 442, 213996	23.2	15
76	Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14613-14621	16.4	16
75	Comparing electrocatalytic hydrogen and oxygen evolution activities of first-row transition metal complexes with similar coordination environments. <i>Journal of Energy Chemistry</i> , 2021 , 63, 659-659	12	3
74	An unusual network of MnO ₂ nanowires with structure-induced hydrophilicity and conductivity for improved electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1724-1731	11.3	2
73	Space-confined construction of two-dimensional nitrogen-doped carbon with encapsulated bimetallic nanoparticles as oxygen electrocatalysts. <i>Chemical Communications</i> , 2021 , 57, 8190-8193	5.8	4
72	Autologous manganese phosphates with different Mn sites for electrocatalytic water oxidation. <i>Chemical Communications</i> , 2021 , 57, 6165-6168	5.8	3
71	Light-Promoted Nickel Catalysis: Etherification of Aryl Electrophiles with Alcohols Catalyzed by a NiII-Aryl Complex. <i>Angewandte Chemie</i> , 2020 , 132, 12814-12819	3.6	11
70	Water-Soluble Polymers with Appending Porphyrins as Bioinspired Catalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15844-15848	16.4	37
69	Water-Soluble Polymers with Appending Porphyrins as Bioinspired Catalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 15978-15982	3.6	10

68	A yolk-shell structured metal-organic framework with encapsulated iron-porphyrin and its derived bimetallic nitrogen-doped porous carbon for an efficient oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9536-9544	13	45
67	Homolytic versus Heterolytic Hydrogen Evolution Reaction Steered by a Steric Effect. <i>Angewandte Chemie</i> , 2020 , 132, 9026-9031	3.6	14
66	The Trans Axial Ligand Effect on Oxygen Reduction. Immobilization Method May Weaken Catalyst Design for Electrocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16324-16331	3.8	18
65	Autologous Cobalt Phosphates with Modulated Coordination Sites for Electrocatalytic Water Oxidation. <i>Angewandte Chemie</i> , 2020 , 132, 9002-9006	3.6	10
64	Autologous Cobalt Phosphates with Modulated Coordination Sites for Electrocatalytic Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8917-8921	16.4	35
63	Homolytic versus Heterolytic Hydrogen Evolution Reaction Steered by a Steric Effect. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8941-8946	16.4	43
62	Light-Promoted Nickel Catalysis: Etherification of Aryl Electrophiles with Alcohols Catalyzed by a Ni-Aryl Complex. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12714-12719	16.4	41
61	Karst landform-featured monolithic electrode for water electrolysis in neutral media. <i>Energy and Environmental Science</i> , 2020 , 13, 174-182	35.4	59
60	Unexpected Effect of Intramolecular Phenolic Group on Electrocatalytic CO ₂ Reduction. <i>ChemCatChem</i> , 2020 , 12, 1591-1595	5.2	14
59	Engineering Hierarchical-Dimensional Co(OH)F into CoP Superstructure for Electrocatalytic Water Splitting. <i>ChemCatChem</i> , 2020 , 12, 4770-4774	5.2	4
58	Co ₃ O ₄ on Fe, N Doped Bio-Carbon Substrate for Electrocatalysis of Oxygen Reduction. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 3869-3876	2.3	2
57	Jahn-Teller Disproportionation Induced Exfoliation of Unit-Cell Scale γ -MnO. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22659-22666	16.4	9
56	Electrocatalytic hydrogen evolution with gallium hydride and ligand-centered reduction. <i>Chemical Science</i> , 2019 , 10, 2308-2314	9.4	44
55	A New Strategy for Solar-to-Hydrogen Energy Conversion: Photothermal-Promoted Electrocatalytic Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 2762-2765	4.3	8
54	Hierarchical-dimensional Material: A Co(OH) ₂ Superstructure with Hybrid Dimensions for Enhanced Water Oxidation. <i>ChemCatChem</i> , 2019 , 11, 5969-5975	5.2	8
53	Attaching Cobalt Corroles onto Carbon Nanotubes: Verification of Four-Electron Oxygen Reduction by Mononuclear Cobalt Complexes with Significantly Improved Efficiency. <i>ACS Catalysis</i> , 2019 , 9, 4551-4560	13.1	71
52	Structure Effects of Metal Corroles on Energy-Related Small Molecule Activation Reactions. <i>ACS Catalysis</i> , 2019 , 9, 4320-4344	13.1	84
51	Underevaluated Solvent Effects in Electrocatalytic CO Reduction by Fe Chloride Tetrakis(pentafluorophenyl)porphyrin. <i>Chemistry - A European Journal</i> , 2019 , 26, 4007	4.8	21

50	Ultra-thin Co-Fe Layered Double Hydroxide Hollow Nanocubes for Efficient Electrocatalytic Water Oxidation. <i>ChemPhysChem</i> , 2019 , 20, 2964-2967	3.2	13
49	2D Metal-Organic Framework Derived CuCo Alloy Nanoparticles Encapsulated by Nitrogen-Doped Carbonaceous Nanoleaves for Efficient Bifunctional Oxygen Electrocatalyst and Zinc-Air Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 12780-12788	4.8	27
48	Molecular Engineering of a 3D Self-Supported Electrode for Oxygen Electrocatalysis in Neutral Media. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18883-18887	16.4	91
47	Low overpotential water oxidation at neutral pH catalyzed by a copper(ii) porphyrin. <i>Chemical Science</i> , 2019 , 10, 2613-2622	9.4	100
46	NiFe Oxalate Nanomesh Array with Homogenous Doping of Fe for Electrocatalytic Water Oxidation. <i>Small</i> , 2019 , 15, e1904579	11	24
45	Controlled synthesis of hexagonal annular Mn(OH)F for water oxidation. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1860-1866	11.3	3
44	Boosting hydrogen evolution by using covalent frameworks of fluorinated cobalt porphyrins supported on carbon nanotubes. <i>Chemical Communications</i> , 2019 , 55, 12647-12650	5.8	33
43	A two-dimensional multi-shelled metal-organic framework and its derived bimetallic N-doped porous carbon for electrocatalytic oxygen reduction. <i>Chemical Communications</i> , 2019 , 55, 14805-14808	5.8	23
42	Convenient Immobilization of Cobalt Corroles on Carbon Nanotubes through Covalent Bonds for Electrocatalytic Hydrogen and Oxygen Evolution Reactions. <i>ChemSusChem</i> , 2019 , 12, 801-806	8.3	49
41	Manganese(ii) phosphate nanosheet assembly with native out-of-plane Mn centres for electrocatalytic water oxidation. <i>Chemical Science</i> , 2019 , 10, 191-197	9.4	27
40	Dual Tuning of Ultrathin Co(OH)_2 Nanosheets by Solvent Engineering and Coordination Competition for Efficient Oxygen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3527-3533	8.3	34
39	Hollow Bimetallic Zinc Cobalt Phosphosulfides for Efficient Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2019 , 25, 621-626	4.8	9
38	Mononuclear first-row transition-metal complexes as molecular catalysts for water oxidation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 228-244	11.3	50
37	Novel insight into the epitaxial growth mechanism of six-fold symmetrical $\text{Co(OH)}_2/\text{Co(OH)F}$ hierarchical hexagrams and their water oxidation activity. <i>Electrochimica Acta</i> , 2018 , 271, 526-536	6.7	29
36	Selective visible-light-driven oxygen reduction to hydrogen peroxide using BODIPY photosensitizers. <i>Chemical Communications</i> , 2018 , 54, 845-848	5.8	24
35	Ni2P hollow microspheres for electrocatalytic oxygen evolution and reduction reactions. <i>Catalysis Science and Technology</i> , 2018 , 8, 2289-2293	5.5	35
34	Solar-to-Hydrogen Energy Conversion Based on Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1701620	21.8	285
33	Co(OH)_2 hollow nanoflowers as highly efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Materials Research</i> , 2018 , 33, 568-580	2.5	11

32	Porous Materials as Highly Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2018 , 10, 1206-1220	5.2	51
31	Quasi-single-crystalline CoO hexagrams with abundant defects for highly efficient electrocatalytic water oxidation. <i>Chemical Science</i> , 2018 , 9, 6961-6968	9.4	46
30	Cobalt-Nitrogen-Doped Helical Carbonaceous Nanotubes as a Class of Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2018 , 130, 13371-13375	3.6	15
29	Cobalt-Nitrogen-Doped Helical Carbonaceous Nanotubes as a Class of Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13187-13191	16.4	84
28	PVP-assisted transformation of a metal-organic framework into Co-embedded N-enriched meso/microporous carbon materials as bifunctional electrocatalysts. <i>Chemical Communications</i> , 2018 , 54, 7519-7522	5.8	112
27	Carbon Nanotubes with Cobalt Corroles for Hydrogen and Oxygen Evolution in pH 0-14 Solutions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15070-15075	16.4	111
26	Conductive Molybdenum Sulfide for Efficient Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2018 , 14, e1803361	3.6	56
25	A Thin NiFe Hydroxide Film Formed by Stepwise Electrodeposition Strategy with Significantly Improved Catalytic Water Oxidation Efficiency. <i>Advanced Energy Materials</i> , 2017 , 7, 1602547	21.8	154
24	Electrosynthesis of NiP nanospheres for electrocatalytic hydrogen evolution from a neutral aqueous solution. <i>Chemical Communications</i> , 2017 , 53, 5507-5510	5.8	65
23	Phase-transfer synthesis of $\text{Co}(\text{OH})_2$ and its conversion to CoO for efficient electrocatalytic water oxidation. <i>Science Bulletin</i> , 2017 , 62, 626-632	10.6	48
22	An Electrodeposited NiSe for Electrocatalytic Hydrogen and Oxygen Evolution Reactions in Alkaline Solution. <i>Electrochimica Acta</i> , 2017 , 224, 412-418	6.7	111
21	Electrocatalytic Water Oxidation by a Water-Soluble Copper(II) Complex with a Copper-Bound Carbonate Group Acting as a Potential Proton Shuttle. <i>Inorganic Chemistry</i> , 2017 , 56, 13368-13375	5.1	67
20	PVP-assisted synthesis of porous CoO prisms with enhanced electrocatalytic oxygen evolution properties. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1210-1216	12	17
19	Preparation of Cobalt-Based Electrodes by Physical Vapor Deposition on Various Nonconductive Substrates for Electrocatalytic Water Oxidation. <i>ChemSusChem</i> , 2017 , 10, 4699-4703	8.3	9
18	Aligned cobalt-based Co@CoO nanostructures for efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2017 , 53, 9277-9280	5.8	50
17	Facile synthesis of sponge-like NiN/NC for electrocatalytic water oxidation. <i>Chemical Communications</i> , 2017 , 53, 9566-9569	5.8	49
16	Graphene-Supported Pyrene-Modified Cobalt Corrole with Axial Triphenylphosphine for Enhanced Hydrogen Evolution in pH 0-14 Aqueous Solutions. <i>ChemSusChem</i> , 2017 , 10, 4632-4641	8.3	59
15	Energy-Related Small Molecule Activation Reactions: Oxygen Reduction and Hydrogen and Oxygen Evolution Reactions Catalyzed by Porphyrin- and Corrole-Based Systems. <i>Chemical Reviews</i> , 2017 , 117, 3717-3797	68.1	775

14	Surface Electrochemical Modification of a Nickel Substrate to Prepare a NiFe-based Electrode for Water Oxidation. <i>ChemSusChem</i> , 2017 , 10, 394-400	8.3	58
13	Hierarchical Co(OH)F Superstructure Built by Low-Dimensional Substructures for Electrocatalytic Water Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1700286	24	167
12	Noncovalent Immobilization of a Pyrene-Modified Cobalt Corrole on Carbon Supports for Enhanced Electrocatalytic Oxygen Reduction and Oxygen Evolution in Aqueous Solutions. <i>ACS Catalysis</i> , 2016 , 6, 6429-6437	13.1	132
11	A Nickel-Based Integrated Electrode from an Autologous Growth Strategy for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2016 , 6, 1502489	21.8	123
10	Fast and simple preparation of iron-based thin films as highly efficient water-oxidation catalysts in neutral aqueous solution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4870-5	16.4	233
9	Synthesis of a conjugated porous Co(II) porphyrinylene-ethynylene framework through alkyne metathesis and its catalytic activity study. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4954-4959	13	71
8	Water-soluble MoS ₃ nanoparticles for photocatalytic H ₂ evolution. <i>ChemSusChem</i> , 2015 , 8, 1464-71	8.3	35
7	An Iron-based Film for Highly Efficient Electrocatalytic Oxygen Evolution from Neutral Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21852-9	9.5	143
6	Porous Nickel-Iron Oxide as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Science</i> , 2015 , 2, 1500199	13.6	197
5	Hollow spheres of iron carbide nanoparticles encased in graphitic layers as oxygen reduction catalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3675-9	16.4	719
4	Hollow Spheres of Iron Carbide Nanoparticles Encased in Graphitic Layers as Oxygen Reduction Catalysts. <i>Angewandte Chemie</i> , 2014 , 126, 3749-3753	3.6	106
3	Improving Electrocatalytic Oxygen Reduction Activity and Selectivity with a Cobalt Corrole Appended with Multiple Positively Charged Proton Relay Sites. <i>Journal of Physical Chemistry C</i> ,	3.8	5
2	Introducing Water-Network-Assisted Proton Transfer for Boosted Electrocatalytic Hydrogen Evolution with Cobalt Corrole. <i>Angewandte Chemie</i> , e202114310	3.6	
1	A channel-confined strategy for synthesizing CoN-CoO _x /C as efficient oxygen reduction electrocatalyst for advanced zinc-air batteries. <i>Nano Research</i> , 1	10	6