

Wei Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5297938/wei-zhang-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
102	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
101	Solar-to-Hydrogen Energy Conversion Based on Water Splitting. <i>Advanced Energy Materials</i> , 2018 , 8, 1701620	21.8	285
100	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
99	Porous Nickel-Iron Oxide as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Science</i> , 2015 , 2, 1500199	13.6	197
98	Hierarchical Co(OH)F Superstructure Built by Low-Dimensional Substructures for Electrocatalytic Water Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1700286	24	167
97	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
96	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
95	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
94	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
93	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
92	An Electrodeposited NiSe for Electrocatalytic Hydrogen and Oxygen Evolution Reactions in Alkaline Solution. <i>Electrochimica Acta</i> , 2017 , 224, 412-418	6.7	111
91	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
90	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
89	Low overpotential water oxidation at neutral pH catalyzed by a copper(ii) porphyrin. <i>Chemical Science</i> , 2019 , 10, 2613-2622	9.4	100
88	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
87	Porphyrin-based frameworks for oxygen electrocatalysis and catalytic reduction of carbon dioxide. <i>Chemical Society Reviews</i> , 2021 , 50, 2540-2581	58.5	85

86	Structure Effects of Metal Corroles on Energy-Related Small Molecule Activation Reactions. <i>ACS Catalysis</i> , 2019 , 9, 4320-4344	13.1	84
85	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
84	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
83	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
82	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
81	Electrosynthesis of NiP nanospheres for electrocatalytic hydrogen evolution from a neutral aqueous solution. <i>Chemical Communications</i> , 2017 , 53, 5507-5510	5.8	65
80	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
79	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
78	Karst landform-featured monolithic electrode for water electrolysis in neutral media. <i>Energy and Environmental Science</i> , 2020 , 13, 174-182	35.4	59
77	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
76	Conductive Molybdenum Sulfide for Efficient Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2018 , 14, e1803361	13.61	56
75	Porous Materials as Highly Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2018 , 10, 1206-1220	5.2	51
74	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
73	Aligned cobalt-based Co@CoO nanostructures for efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2017 , 53, 9277-9280	5.8	50
72	Facile synthesis of sponge-like NiN/NC for electrocatalytic water oxidation. <i>Chemical Communications</i> , 2017 , 53, 9566-9569	5.8	49
71	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
70	Phase-transfer synthesis of Co(OH)_2 and its conversion to CoO for efficient electrocatalytic water oxidation. <i>Science Bulletin</i> , 2017 , 62, 626-632	10.6	48
69	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

68	Cobalt porphyrins supported on carbon nanotubes as model catalysts of metal-N ₄ /C sites for oxygen electrocatalysis. <i>Journal of Energy Chemistry</i> , 2021 , 53, 77-81	12	46
67	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
66	Electrocatalytic hydrogen evolution with gallium hydride and ligand-centered reduction. <i>Chemical Science</i> , 2019 , 10, 2308-2314	9.4	44
65	Homolytic versus Heterolytic Hydrogen Evolution Reaction Steered by a Steric Effect. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8941-8946	16.4	43
64	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
63	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
62	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
61	Water-soluble MoS ₃ nanoparticles for photocatalytic H ₂ evolution. <i>ChemSusChem</i> , 2015 , 8, 1464-71	8.3	35
60	Autologous Cobalt Phosphates with Modulated Coordination Sites for Electrocatalytic Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8917-8921	16.4	35
59	Ni ₂ P hollow microspheres for electrocatalytic oxygen evolution and reduction reactions. <i>Catalysis Science and Technology</i> , 2018 , 8, 2289-2293	5.5	35
58	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	8.2	34
57	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
56	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
55	Novel insight into the epitaxial growth mechanism of six-fold symmetrical Co(OH) ₂ /Co(OH)F hierarchical hexagrams and their water oxidation activity. <i>Electrochimica Acta</i> , 2018 , 271, 526-536	6.7	29
54	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
53	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
52	Selective visible-light-driven oxygen reduction to hydrogen peroxide using BODIPY photosensitizers. <i>Chemical Communications</i> , 2018 , 54, 845-848	5.8	24
51	NiFe Oxalate Nanomesh Array with Homogenous Doping of Fe for Electrocatalytic Water Oxidation. <i>Small</i> , 2019 , 15, e1904579	11	24

50	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
49	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
48	Light-Promoted C-N Coupling of Aryl Halides with Nitroarenes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5230-5234	16.4	23
47	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
46	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
45	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
44	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
43	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
42	Bioinspired N4-metallomacrocycles for electrocatalytic oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2021 , 442, 213996	23.2	15
41	Homolytic versus Heterolytic Hydrogen Evolution Reaction Steered by a Steric Effect. <i>Angewandte Chemie</i> , 2020 , 132, 9026-9031	3.6	14
40	Unexpected Effect of Intramolecular Phenolic Group on Electrocatalytic CO ₂ Reduction. <i>ChemCatChem</i> , 2020 , 12, 1591-1595	5.2	14
39	Ultra-thin Co-Fe Layered Double Hydroxide Hollow Nanocubes for Efficient Electrocatalytic Water Oxidation. <i>ChemPhysChem</i> , 2019 , 20, 2964-2967	3.2	13
38	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
37	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
36	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
35	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
34	Autologous Cobalt Phosphates with Modulated Coordination Sites for Electrocatalytic Water Oxidation. <i>Angewandte Chemie</i> , 2020 , 132, 9002-9006	3.6	10
33	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

32	Metalloporphyrins as Catalytic Models for Studying Hydrogen and Oxygen Evolution and Oxygen Reduction Reactions.. <i>Accounts of Chemical Research</i> , 2022 ,	24.3	10
31	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
30	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
29	Jahn-Teller Disproportionation Induced Exfoliation of Unit-Cell Scale γ -MnO. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22659-22666	16.4	9
28	Hollow Bimetallic Zinc Cobalt Phosphosulfides for Efficient Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2019 , 25, 621-626	4.8	9
27	A New Strategy for Solar-to-Hydrogen Energy Conversion: Photothermal-Promoted Electrocatalytic Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 2762-2765	4.3	8
26	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
25	Highly Curved Nanostructure-Coated Co, N-Doped Carbon Materials for Oxygen Electrocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 12869-12874	3.6	8
24	Substituent position effect of Co porphyrin on oxygen electrocatalysis. <i>Chinese Chemical Letters</i> , 2021 , 32, 2841-2841	8.1	8
23	A channel-confined strategy for synthesizing CoN-CoOx/C as efficient oxygen reduction electrocatalyst for advanced zinc-air batteries. <i>Nano Research</i> , ¹	10	6
22	Light-Promoted C-N Coupling of Aryl Halides with Nitroarenes. <i>Angewandte Chemie</i> , 2021 , 133, 5290-5294	4.6	6
21	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
20	Engineering Hierarchical-Dimensional Co(OH)F into CoP Superstructure for Electrocatalytic Water Splitting. <i>ChemCatChem</i> , 2020 , 12, 4770-4774	5.2	4
19	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
18	Photochemically Enabled, Ni-Catalyzed Cyanation of Aryl Halides.. <i>Organic Letters</i> , 2022 , 24, 2271-2275	6.2	4
17	Controlled synthesis of hexagonal annular Mn(OH)F for water oxidation. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1860-1866	11.3	3
16	Significantly boosted oxygen electrocatalysis with cooperation between cobalt and iron porphyrins. <i>Dalton Transactions</i> , 2021 , 50, 5120-5123	4.3	3
15	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

14	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
13	Autologous manganese phosphates with different Mn sites for electrocatalytic water oxidation. <i>Chemical Communications</i> , 2021 , 57, 6165-6168	5.8	3
12	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
11	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
10	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
9	Enzyme-Inspired Iron Porphyrins for Improved Electrocatalytic Oxygen Reduction and Evolution Reactions. <i>Angewandte Chemie</i> , 2021 , 133, 7654-7659	3.6	2
8	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
7	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
6	Through-Space Electrostatic Effects of Positively Charged Substituents on the Hydrogen Evolution Reaction. <i>ChemSusChem</i> , 2022 ,	8.3	1
5	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
4	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
3	Anion engineering of hierarchical Co-A (Al, D, Se, P) hexagrams for efficient electrocatalytic oxygen evolution reaction. <i>Chinese Chemical Letters</i> , 2021 , 32, 3241-3241	8.1	0
2	Black phosphorus incorporated cobalt oxide: Biomimetic channels for electrocatalytic water oxidation. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1123-1130	11.3	0
1	Introducing Water-Network-Assisted Proton Transfer for Boosted Electrocatalytic Hydrogen Evolution with Cobalt Corrole. <i>Angewandte Chemie</i> , e202114310	3.6	