Zhenhua Yan

List of Publications by Year
in descending order

57	6,231	117453	149479
papers	citations	34 h-index	56 g-index

58	58	58	6615
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ Surface Selfâ€Reconstruction Strategies in Liâ€Rich Mnâ€Based Layered Cathodes for Energyâ€Dense Liâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	35
2	An MXeneâ€Based Metal Anode with Stepped Sodiophilic Gradient Structure Enables a Large Current Density for Rechargeable Naâ€“O₂ Batteries. Advanced Materials, 2022, 34, e2106565.	11.1	35
3	N,N-dimethylformamide tailors solvent effect to boost Zn anode reversibility in aqueous electrolyte. National Science Review, 2022, 9, .	4.6	53
4	Quinone Electrodes for Alkaliâ€“Acid Hybrid Batteries. Journal of the American Chemical Society, 2022, 144, 8066-8072.	6.6	23
5	Atomic-Level Modulation-Induced Electron Redistribution in Co Coordination Polymers Elucidates the Oxygen Reduction Mechanism. ACS Catalysis, 2022, 12, 7531-7540.	5.5	36
6	Rational design and synthesis of two-dimensional conjugated metal-organic polymers for electrocatalysis applications. CheM, 2022, 8, 1822-1854.	5.8	32
7	Bixbyite-type Ln2O3 as promoters of metallic Ni for alkaline electrocatalytic hydrogen evolution. Nature Communications, 2022, 13, .	5.8	62
8	Electroless Formation of a Fluorinated Li/Na Hybrid Interphase for Robust Lithium Anodes. Journal of the American Chemical Society, 2021, 143, 2829-2837.	6.6	119
9	Highâ€Energyâ€Density Quinoneâ€Based Electrodes with [Al(OTF)]²⁺ Storage Mechanism for Rechargeable Aqueous Aluminum Batteries. Advanced Functional Materials, 2021, 31, 2102063.	7.8	61
10	Opportunities and challenges for aqueous metal-proton batteries. Matter, 2021, 4, 1252-1273.	5.0	63
11	Advances and Challenges for the Electrochemical Reduction of CO₂ to CO: From Fundamentals to Industrialization. Angewandte Chemie, 2021, 133, 20795-20816.	1.6	82
12	Extraction and Quality Evaluation of Biodiesel from Six Familiar Non-Edible Plants Seeds. Processes, 2021, 9, 840.	1.3	6
13	Advances and Challenges for the Electrochemical Reduction of CO₂ to CO: From Fundamentals to Industrialization. Angewandte Chemie - International Edition, 2021, 60, 20627-20648.	7.2	408
14	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie, 2021, 133, 17074-17078.	1.6	9
15	Regulating Electrocatalytic Oxygen Reduction Activity of a Metal Coordination Polymer via dâ€“Ï€ Conjugation. Angewandte Chemie - International Edition, 2021, 60, 16937-16941.	7.2	74
16	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie, 2021, 133, 22854-22859.	1.6	5
17	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie - International Edition, 2021, 60, 23357-23364.	7.2	179
18	Designing Anionâ€Type Waterâ€Free Zn²⁺ Solvation Structure for Robust Zn Metal Anode. Angewandte Chemie, 2021, 133, 23545-23552.	1.6	57

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19	Stabilizing Zinc Electrodes with a Vanillin Additive in Mild Aqueous Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 47650-47658.	4.0	70
20	Insights into the Ionic Conduction Mechanism of Quasiâ€Solid Polymer Electrolytes through Multispectral Characterization. Angewandte Chemie - International Edition, 2021, 60, 22672-22677.	7.2	72
21	Boosting Electrocatalytic Oxygen Evolution by Cation Defect Modulation via Electrochemical Etching. CCS Chemistry, 2021, 3, 675-685.	4.6	63
22	In Situ Polymerized Conjugated Poly(pyreneâ€4,5,9,10â€tetraone)/Carbon Nanotubes Composites for Highâ€Performance Cathode of Sodium Batteries. Advanced Energy Materials, 2021, 11, 2002917.	10.2	69
23	Superior Sodium Metal Anodes Enabled by Sodiophilic Carbonized Coconut Framework with 3D Tubular Structure. Advanced Energy Materials, 2021, 11, 2003699.	10.2	77
24	Syntheses, challenges and modifications of single-crystal cathodes for lithium-ion battery. Journal of Energy Chemistry, 2021, 63, 217-229.	7.1	30
25	Selfâ€Supported Transitionâ€Metalâ€Based Electrocatalysts for Hydrogen and Oxygen Evolution. Advanced Materials, 2020, 32, e1806326.	11.1	986
26	Nitrogen-rich covalent organic frameworks with multiple carbonyls for high-performance sodium batteries. Nature Communications, 2020, 11, 178.	5.8	279
27	Exploring the Interfacial Chemistry between Zinc Anodes and Aqueous Electrolytes via an In Situ Visualized Characterization System. ACS Applied Materials & Interfaces, 2020, 12, 55476-55482.	4.0	58
28	Hybrid Nanosheet Arrays: Boosting Activity on Co₄N Porous Nanosheet by Coupling CeO₂ for Efficient Electrochemical Overall Water Splitting at High Current Densities (Adv. Funct. Mater. 32/2020). Advanced Functional Materials, 2020, 30, 2070213.	7.8	1
29	Coupling NiCo Alloy and CeO₂ to Enhance Electrocatalytic Hydrogen Evolution in Alkaline Solution. Advanced Sustainable Systems, 2020, 4, 2000122.	2.7	36
30	Isolated diatomic Znâ€“Fe in N-doped carbon for electrocatalytic nitrogen reduction to ammonia. Chemical Communications, 2020, 56, 11957-11960.	2.2	43
31	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21885-21889.	7.2	79
32	A Universal Graphene Quantum Dot Tethering Design Strategy to Synthesize Singleâ€Atom Catalysts. Angewandte Chemie, 2020, 132, 22069-22073.	1.6	9
33	Boosting Activity on Co₄N Porous Nanosheet by Coupling CeO₂ for Efficient Electrochemical Overall Water Splitting at High Current Densities. Advanced Functional Materials, 2020, 30, 1910596.	7.8	218
34	A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendriteâ€Free Sodiumâ€Metal Electrodes. Angewandte Chemie - International Edition, 2020, 59, 16705-16711.	7.2	138
35	A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendriteâ€Free Sodiumâ€Metal Electrodes. Angewandte Chemie, 2020, 132, 16848.	1.6	11
36	Production and Characterization of Biodiesel Derived from a Novel Source Koelreuteria paniculata Seed Oil. Energies, 2020, 13, 791.	1.6	13

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37	Electrodeposition Accelerates Metal-Based Batteries. Joule, 2020, 4, 10-11.	11.7	36
38	Electrodeposition of (hydro)oxides for an oxygen evolution electrode. Chemical Science, 2020, 11, 10614-10625.	3.7	117
39	Facile synthesis of amorphous MoS_xâ€“Fe anchored on Zr-MOFs towards efficient and stable electrocatalytic hydrogen evolution. Chemical Communications, 2020, 56, 2763-2766.	2.2	27
40	Electrodeposition of Pt-Decorated Ni(OH) ₂ /CeO ₂ Hybrid as Superior Bifunctional Electrocatalyst for Water Splitting. Research, 2020, 2020, 9068270.	2.8	19
41	Structure design and mechanism analysis of silicon anode for lithium-ion batteries. Science China Materials, 2019, 62, 1515-1536.	3.5	80
42	In situ Synthesis of a Bismuth Layer on a Sodium Metal Anode for Fast Interfacial Transport in Sodiumâ€Oxygen Batteries. Batteries and Supercaps, 2019, 2, 663-667.	2.4	32
43	Optimization, Transesterification and Analytical Study of Rhus typhina Non-Edible Seed Oil as Biodiesel Production. Energies, 2019, 12, 4290.	1.6	12
44	Layered H_{0.68}Ti_{1.83}O₄/reduced graphene oxide nanosheets as a novel cathode for rechargeable magnesium batteries. Chemical Communications, 2019, 55, 14578-14581.	2.2	14
45	Spinel oxide nanoparticles embedded in nitrogen-doped carbon nanofibers as a robust and self-standing bifunctional oxygen cathode for Znâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 24868-24876.	5.2	76
46	Nanostructured NiMoO4 as active electrocatalyst for oxygen evolution. Chinese Chemical Letters, 2019, 30, 319-323.	4.8	55
47	Rapid low-temperature synthesis of perovskite/carbon nanocomposites as superior electrocatalysts for oxygen reduction in Zn-air batteries. Nano Research, 2018, 11, 3282-3293.	5.8	44
48	Flexible and Tailorable Naâ€“CO₂ Batteries Based on an Allâ€Solidâ€State Polymer Electrolyte. ChemElectroChem, 2018, 5, 3628-3632.	1.7	42
49	Spent alkaline battery-derived manganese oxides as efficient oxygen electrocatalysts for Znâ€“air batteries. Inorganic Chemistry Frontiers, 2018, 5, 2167-2173.	3.0	29
50	Superhydrophilic amorphous Coâ€“Bâ€“P nanosheet electrocatalysts with Pt-like activity and durability for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 22062-22069.	5.2	156
51	Anion insertion enhanced electrodeposition of robust metal hydroxide/oxide electrodes for oxygen evolution. Nature Communications, 2018, 9, 2373.	5.8	336
52	Porous Multishelled Ni₂P Hollow Microspheres as an Active Electrocatalyst for Hydrogen and Oxygen Evolution. Chemistry of Materials, 2017, 29, 8539-8547.	3.2	279
53	Spinels: Controlled Preparation, Oxygen Reduction/Evolution Reaction Application, and Beyond. Chemical Reviews, 2017, 117, 10121-10211.	23.0	1,157
54	Modulation of 17Î²-estradiol induced estrogenic responses in male goldfish (Carassius auratus) by benzo[a]pyrene and ketoconazole. Environmental Science and Pollution Research, 2016, 23, 9036-9045.	2.7	7

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55	Template-free synthesis of porous graphitic carbon nitride/carbon composite spheres for electrocatalytic oxygen reduction reaction. Chemical Communications, 2016, 52, 1725-1728.	2.2	93
56	Ethylene glycol stabilized NaBH4 reduction for preparation carbon-supported Ptâ€“Co alloy nanoparticles used as oxygen reduction electrocatalysts for microbial fuel cells. Journal of Solid State Electrochemistry, 2014, 18, 1087-1097.	1.2	26
57	Influence of organic colloids on uptake, accumulation and effects of benzophenone-3 in aquatic animals. Environmental Science: Nano, 0, , .	2.2	2