Zhaoyu Jin

List of Publications by Year
in descending order

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49 papers	3,273 citations	159358 30 h-index	214527 47 g-index
51 all docs	51 docs citations	51 times ranked	4037 citing authors

#	Article	IF	Citations
1	Emerging Electrochemical Techniques for Probing Site Behavior in Single-Atom Electrocatalysts. Accounts of Chemical Research, 2022, 55, 759-769.	7.6	58
2	Porous Two-dimensional Iron-Cyano Nanosheets for High-rate Electrochemical Nitrate Reduction. ACS Nano, 2022, 16, 1072-1081.	7.3	89
3	Erratum for Klementiev et al., â€œMicron Scale Spatial Measurement of the O ₂ Gradient Surrounding a Bacterial Biofilm in Real Timeâ€• MBio, 2022, , e0080322.	1.8	0
4	Lithiated interface of Pt/TiO₂ enables an efficient wire-shaped Znâ€“Air solar micro-battery. Chemical Communications, 2022, 58, 5988-5991.	2.2	5
5	Design principles of hydrogen-evolution-suppressing single-atom catalysts for aqueous electrosynthesis. Chem Catalysis, 2022, 2, 1277-1287.	2.9	19
6	Confining intermediates within a catalytic nanoreactor facilitates nitrate-to-ammonia electrosynthesis. Applied Catalysis B: Environmental, 2022, 315, 121548.	10.8	44
7	Recent progress in conductive polymers for advanced fiber-shaped electrochemical energy storage devices. Materials Chemistry Frontiers, 2021, 5, 1140-1163.	3.2	51
8	Surface Interrogation of Electrodeposited MnO_x and CaMnO₃ Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. Angewandte Chemie, 2021, 133, 807-812.	1.6	8
9	Surface Interrogation of Electrodeposited MnO_x and CaMnO₃ Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 794-799.	7.2	51
10	Understanding the inter-site distance effect in single-atom catalysts for oxygen electroreduction. Nature Catalysis, 2021, 4, 615-622.	16.1	336
11	A single-site iron catalyst with preoccupied active centers that achieves selective ammonia electrosynthesis from nitrate. Energy and Environmental Science, 2021, 14, 3522-3531.	15.6	243
12	Ammonia electrosynthesis on single-atom catalysts: Mechanistic understanding and recent progress. Chemical Physics Reviews, 2021, 2, .	2.6	17
13	Interconnecting 3D Conductive Networks with Nanostructured Iron/Iron Oxide Enables a High-Performance Flexible Battery. ACS Applied Materials & Interfaces, 2021, 13, 57411-57421.	4.0	19
14	Supramolecular confinement of single Cu atoms in hydrogel frameworks for oxygen reduction electrocatalysis with high atom utilization. Materials Today, 2020, 35, 78-86.	8.3	88
15	A Surfaceâ€Strained and Geometryâ€Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. Angewandte Chemie, 2020, 132, 22799-22805.	1.6	23
16	RÃ¼cktitelbild: A Surfaceâ€Strained and Geometryâ€Tailored Nanoreactor that Promotes Ammonia Electrosynthesis (Angew. Chem. 50/2020). Angewandte Chemie, 2020, 132, 22992-22992.	1.6	0
17	Micron Scale Spatial Measurement of the O ₂ Gradient Surrounding a Bacterial Biofilm in Real Time. MBio, 2020, 11, .	1.8	17
18	A Surfaceâ€Strained and Geometryâ€Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. Angewandte Chemie - International Edition, 2020, 59, 22610-22616.	7.2	100

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19	Atom-by-atom electrodeposition of single isolated cobalt oxide molecules and clusters for studying the oxygen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12651-12656.	3.3	63
20	Probing Enhanced Site Activity of Coâ€“Fe Bimetallic Subnanoclusters Derived from Dual Cross-Linked Hydrogels for Oxygen Electrocatalysis. ACS Energy Letters, 2019, 4, 1793-1802.	8.8	99
21	Core-shell copper oxide @ nickel/nickelâ€“iron hydroxides nanoarrays enabled efficient bifunctional electrode for overall water splitting. Electrochimica Acta, 2019, 318, 695-702.	2.6	34
22	Enhanced electrochemical performance of C-NiO/NiCo2O4//AC asymmetric supercapacitor based on material design and device exploration. Electrochimica Acta, 2019, 296, 335-344.	2.6	27
23	Superficial-defect engineered nickel/iron oxide nanocrystals enable high-efficient flexible fiber battery. Energy Storage Materials, 2018, 13, 160-167.	9.5	48
24	Stretchable Allâ€Gelâ€State Fiberâ€Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. Advanced Materials, 2018, 30, e1800124.	11.1	396
25	Three-dimensional nanotube-array anode enables a flexible Ni/Zn fibrous battery to ultrafast charge and discharge in seconds. Energy Storage Materials, 2018, 12, 232-240.	9.5	66
26	Boronâ€•and Ironâ€Incorporated Îąâ€Co(OH)₂ Ultrathin Nanosheets as an Efficient Oxygen Evolution Catalyst. ChemElectroChem, 2018, 5, 593-597.	1.7	21
27	Microwave-assisted synthesis of the cobalt-iron phosphates nanosheets as an efficient electrocatalyst for water oxidation. Electrochimica Acta, 2018, 260, 420-429.	2.6	34
28	Ultra-fast pyrolysis of ferrocene to form Fe/C heterostructures as robust oxygen evolution electrocatalysts. Journal of Materials Chemistry A, 2018, 6, 21577-21584.	5.2	50
29	A phytic acid etched Ni/Fe nanostructure based flexible network as a high-performance wearable hybrid energy storage device. Journal of Materials Chemistry A, 2017, 5, 3274-3283.	5.2	48
30	Coupling cobalt-iron bimetallic nitrides and N-doped multi-walled carbon nanotubes as high-performance bifunctional catalysts for oxygen evolution and reduction reaction. Electrochimica Acta, 2017, 258, 51-60.	2.6	61
31	Tri-metallic phytate in situ electrodeposited on 3D Ni foam as a highly efficient electrocatalyst for enhanced overall water splitting. Journal of Materials Chemistry A, 2017, 5, 18786-18792.	5.2	24
32	A Hydrogenâ€Evolving Hybridâ€Electrolyte Battery with Electrochemical/Photoelectrochemical Charging from Water Oxidation. ChemSusChem, 2017, 10, 483-488.	3.6	38
33	In situ formation of high performance Ni-phytate on Ni-foam for efficient electrochemical water oxidation. Electrochemistry Communications, 2017, 74, 42-47.	2.3	39
34	Three-dimensional flexible electrode derived from low-cost nickelâ€“phytate with improved electrochemical performance. Journal of Materials Chemistry A, 2016, 4, 9486-9495.	5.2	28
35	A robust water oxidation electrocatalyst from amorphous cobaltâ€“iron bimetallic phytate nanostructures. Journal of Materials Chemistry A, 2016, 4, 15888-15895.	5.2	34
36	Enhanced catalytic performance of ZnO-CoOx electrode generated from electrochemical corrosion of Co-Zn alloy for oxygen evolution reaction. Electrochimica Acta, 2016, 222, 999-1006.	2.6	15

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37	Photoanode-immobilized molecular cobalt-based oxygen-evolving complexes with enhanced solar-to-fuel efficiency. Journal of Materials Chemistry A, 2016, 4, 11228-11233.	5.2	24
38	Three-dimensional coral-like cobalt selenide as an advanced electrocatalyst for highly efficient oxygen evolution reaction. Electrochimica Acta, 2016, 194, 59-66.	2.6	128
39	Metallic Co₂P ultrathin nanowires distinguished from CoP as robust electrocatalysts for overall water-splitting. Green Chemistry, 2016, 18, 1459-1464.	4.6	254
40	Highly Active 3D-Nanoarray-Supported Oxygen-Evolving Electrode Generated From Cobalt-Phytate Nanoplates. Chemistry of Materials, 2016, 28, 153-161.	3.2	69
41	Sensitive and selective determination of GSH based on the ECL quenching of Ru(II) 1,10-phenanthroline-5,6-dione complex. Biosensors and Bioelectronics, 2016, 77, 182-187.	5.3	20
42	A trimetallic Vâ€“Coâ€“Fe oxide nanoparticle as an efficient and stable electrocatalyst for oxygen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 17763-17770.	5.2	121
43	Self-enhanced electrogenerated chemiluminescence of ruthenium(<scp>ii</scp>) complexes conjugated with Schiff bases. Dalton Transactions, 2015, 44, 2208-2216.	1.6	28
44	A one-step synthesis of Coâ€“Pâ€“B/rGO at room temperature with synergistically enhanced electrocatalytic activity in neutral solution. Journal of Materials Chemistry A, 2014, 2, 18420-18427.	5.2	96
45	Three-dimensional amorphous tungsten-doped nickel phosphide microsphere as an efficient electrocatalyst for hydrogen evolution. Journal of Materials Chemistry A, 2014, 2, 18593-18599.	5.2	109
46	CuOâ€“Ag2O nanoparticles grown on a AgCuZn alloy substrate in situ for use as a highly sensitive non-enzymatic glucose sensor. Analytical Methods, 2014, 6, 2215.	1.3	17
47	Enhanced Electrocatalytic Performance for Oxygen Reduction via Active Interfaces of Layer-By-Layered Titanium Nitride/Titanium Carbonitride Structures. Scientific Reports, 2014, 4, 6712.	1.6	59
48	The structure and properties of electroless Niâ€“Moâ€“Crâ€“P coatings on copper alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2013, 64, 341-346.	0.8	3
49	Enhancing catalytic formaldehyde oxidation on CuOâ€“Ag2O nanowires for gas sensing and hydrogen evolution. Journal of Materials Chemistry A, 2013, 1, 14736.	5.2	52