

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	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. <i>Advanced Materials</i> , 2018, 30, e1800124.	11.1	396
2	Understanding the inter-site distance effect in single-atom catalysts for oxygen electroreduction. <i>Nature Catalysis</i> , 2021, 4, 615-622.	16.1	336
3	Metallic Co ₂ P ultrathin nanowires distinguished from CoP as robust electrocatalysts for overall water-splitting. <i>Green Chemistry</i> , 2016, 18, 1459-1464.	4.6	254
4	A single-site iron catalyst with preoccupied active centers that achieves selective ammonia electrosynthesis from nitrate. <i>Energy and Environmental Science</i> , 2021, 14, 3522-3531.	15.6	243
5	Three-dimensional coral-like cobalt selenide as an advanced electrocatalyst for highly efficient oxygen evolution reaction. <i>Electrochimica Acta</i> , 2016, 194, 59-66.	2.6	128
6	A trimetallic V-Co-Fe oxide nanoparticle as an efficient and stable electrocatalyst for oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17763-17770.	5.2	121
7	Three-dimensional amorphous tungsten-doped nickel phosphide microsphere as an efficient electrocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18593-18599.	5.2	109
8	A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22610-22616.	7.2	100
9	Probing Enhanced Site Activity of Co-Fe Bimetallic Subnanoclusters Derived from Dual Cross-Linked Hydrogels for Oxygen Electrocatalysis. <i>ACS Energy Letters</i> , 2019, 4, 1793-1802.	8.8	99
10	A one-step synthesis of Co-P-B/rGO at room temperature with synergistically enhanced electrocatalytic activity in neutral solution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18420-18427.	5.2	96
11	Porous Two-dimensional Iron-Cyano Nanosheets for High-rate Electrochemical Nitrate Reduction. <i>ACS Nano</i> , 2022, 16, 1072-1081.	7.3	89
12	Supramolecular confinement of single Cu atoms in hydrogel frameworks for oxygen reduction electrocatalysis with high atom utilization. <i>Materials Today</i> , 2020, 35, 78-86.	8.3	88
13	Highly Active 3D-Nanoarray-Supported Oxygen-Evolving Electrode Generated From Cobalt-Phytate Nanoplates. <i>Chemistry of Materials</i> , 2016, 28, 153-161.	3.2	69
14	Three-dimensional nanotube-array anode enables a flexible Ni/Zn fibrous battery to ultrafast charge and discharge in seconds. <i>Energy Storage Materials</i> , 2018, 12, 232-240.	9.5	66
15	Atom-by-atom electrodeposition of single isolated cobalt oxide molecules and clusters for studying the oxygen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12651-12656.	3.3	63
16	Coupling cobalt-iron bimetallic nitrides and N-doped multi-walled carbon nanotubes as high-performance bifunctional catalysts for oxygen evolution and reduction reaction. <i>Electrochimica Acta</i> , 2017, 258, 51-60.	2.6	61
17	Enhanced Electrocatalytic Performance for Oxygen Reduction via Active Interfaces of Layer-By-Layered Titanium Nitride/Titanium Carbonitride Structures. <i>Scientific Reports</i> , 2014, 4, 6712.	1.6	59
18	Emerging Electrochemical Techniques for Probing Site Behavior in Single-Atom Electrocatalysts. <i>Accounts of Chemical Research</i> , 2022, 55, 759-769.	7.6	58

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19	Enhancing catalytic formaldehyde oxidation on CuO@Ag ₂ O nanowires for gas sensing and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14736.	5.2	52
20	Recent progress in conductive polymers for advanced fiber-shaped electrochemical energy storage devices. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1140-1163.	3.2	51
21	Surface Interrogation of Electrodeposited MnO _x and CaMnO ₃ Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 794-799.	7.2	51
22	Ultra-fast pyrolysis of ferrocene to form Fe/C heterostructures as robust oxygen evolution electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21577-21584.	5.2	50
23	A phytic acid etched Ni/Fe nanostructure based flexible network as a high-performance wearable hybrid energy storage device. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3274-3283.	5.2	48
24	Superficial-defect engineered nickel/iron oxide nanocrystals enable high-efficient flexible fiber battery. <i>Energy Storage Materials</i> , 2018, 13, 160-167.	9.5	48
25	Confining intermediates within a catalytic nanoreactor facilitates nitrate-to-ammonia electrosynthesis. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121548.	10.8	44
26	In situ formation of high performance Ni-phytate on Ni-foam for efficient electrochemical water oxidation. <i>Electrochemistry Communications</i> , 2017, 74, 42-47.	2.3	39
27	A Hydrogen-Evolving Hybrid-Electrolyte Battery with Electrochemical/Photoelectrochemical Charging from Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 483-488.	3.6	38
28	A robust water oxidation electrocatalyst from amorphous cobalt-iron bimetallic phytate nanostructures. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15888-15895.	5.2	34
29	Microwave-assisted synthesis of the cobalt-iron phosphates nanosheets as an efficient electrocatalyst for water oxidation. <i>Electrochimica Acta</i> , 2018, 260, 420-429.	2.6	34
30	Core-shell copper oxide @ nickel/nickel-iron hydroxides nanoarrays enabled efficient bifunctional electrode for overall water splitting. <i>Electrochimica Acta</i> , 2019, 318, 695-702.	2.6	34
31	Self-enhanced electrogenerated chemiluminescence of ruthenium(II) complexes conjugated with Schiff bases. <i>Dalton Transactions</i> , 2015, 44, 2208-2216.	1.6	28
32	Three-dimensional flexible electrode derived from low-cost nickel-phytate with improved electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9486-9495.	5.2	28
33	Enhanced electrochemical performance of C-NiO/NiCo ₂ O ₄ /AC asymmetric supercapacitor based on material design and device exploration. <i>Electrochimica Acta</i> , 2019, 296, 335-344.	2.6	27
34	Photoanode-immobilized molecular cobalt-based oxygen-evolving complexes with enhanced solar-to-fuel efficiency. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11228-11233.	5.2	24
35	Tri-metallic phytate in situ electrodeposited on 3D Ni foam as a highly efficient electrocatalyst for enhanced overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18786-18792.	5.2	24
36	A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. <i>Angewandte Chemie</i> , 2020, 132, 22799-22805.	1.6	23

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37	Boron- and Iron- Incorporated $\text{Co}(\text{OH})_2$ Ultrathin Nanosheets as an Efficient Oxygen Evolution Catalyst. <i>ChemElectroChem</i> , 2018, 5, 593-597.	1.7	21
38	Sensitive and selective determination of GSH based on the ECL quenching of Ru(II) 1,10-phenanthroline-5,6-dione complex. <i>Biosensors and Bioelectronics</i> , 2016, 77, 182-187.	5.3	20
39	Interconnecting 3D Conductive Networks with Nanostructured Iron/Iron Oxide Enables a High-Performance Flexible Battery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57411-57421.	4.0	19
40	Design principles of hydrogen-evolution-suppressing single-atom catalysts for aqueous electrosynthesis. <i>Chem Catalysis</i> , 2022, 2, 1277-1287.	2.9	19
41	Cu-Ag ₂ O nanoparticles grown on a AgCuZn alloy substrate in situ for use as a highly sensitive non-enzymatic glucose sensor. <i>Analytical Methods</i> , 2014, 6, 2215.	1.3	17
42	Micron Scale Spatial Measurement of the O_2 Gradient Surrounding a Bacterial Biofilm in Real Time. <i>MBio</i> , 2020, 11, .	1.8	17
43	Ammonia electrosynthesis on single-atom catalysts: Mechanistic understanding and recent progress. <i>Chemical Physics Reviews</i> , 2021, 2, .	2.6	17
44	Enhanced catalytic performance of ZnO-CoOx electrode generated from electrochemical corrosion of Co-Zn alloy for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2016, 222, 999-1006.	2.6	15
45	Surface Interrogation of Electrodeposited MnO_x and CaMnO_3 Perovskites by Scanning Electrochemical Microscopy: Probing Active Sites and Kinetics for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2021, 133, 807-812.	1.6	8
46	Lithiated interface of Pt/TiO ₂ enables an efficient wire-shaped Zn-Air solar micro-battery. <i>Chemical Communications</i> , 2022, 58, 5988-5991.	2.2	5
47	The structure and properties of electroless Ni-Mo-Cr-P coatings on copper alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 341-346.	0.8	3
48	Å½cktitelbild: A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis (<i>Angew. Chem.</i> 50/2020). <i>Angewandte Chemie</i> , 2020, 132, 22992-22992.	1.6	0
49	Erratum for Klementiev et al., "Micron Scale Spatial Measurement of the O_2 Gradient Surrounding a Bacterial Biofilm in Real Time", <i>MBio</i> , 2022, , e0080322.	1.8	0