

Yao Zhou

List of Publications by Year in descending order

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58
papers

2,474
citations

201674

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48
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all docs

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docs citations

58
times ranked

3161
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Interaction between FeOOH and Ni ²⁺ /Fe LDH to Modulate the Local Electronic Structure for Enhanced OER Electrocatalysis. <i>ACS Catalysis</i> , 2018, 8, 11342-11351.	11.2	414
2	Water Soluble Binder, an Electrochemical Performance Booster for Electrode Materials with High Energy Density. <i>Advanced Energy Materials</i> , 2017, 7, 1701185.	19.5	248
3	Evolution of Cationic Vacancy Defects: A Motif for Surface Restructuration of OER Precatalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26829-26836.	13.8	210
4	Biosynthesis of Gold Nanoparticles by Foliar Broths: Roles of Biocompounds and Other Attributes of the Extracts. <i>Nanoscale Research Letters</i> , 2010, 5, 1351-1359.	5.7	101
5	Controlled synthesis of Fe _{Nx} -Co _{Nx} dual active sites interfaced with metallic Co nanoparticles as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119259.	20.2	92
6	Synergetic Effect of Ru and NiO in the Electrocatalytic Decomposition of Li ₂ CO ₃ to Enhance the Performance of a Li-CO ₂ /O ₂ Battery. <i>ACS Catalysis</i> , 2020, 10, 1640-1651.	11.2	85
7	Engineering the interface between LiCoO ₂ and Li ₁₀ GeP ₂ S ₁₂ solid electrolytes with an ultrathin Li ₂ CoTi ₃ O ₈ interlayer to boost the performance of all-solid-state batteries. <i>Energy and Environmental Science</i> , 2021, 14, 437-450.	30.8	82
8	Simultaneous Synthesis and Assembly of Noble Metal Nanoclusters with Variable Micellar Templates. <i>Journal of the American Chemical Society</i> , 2014, 136, 13805-13817.	13.7	77
9	3D Networks of CoFePi with Hierarchical Porosity for Effective OER Electrocatalysis. <i>Small</i> , 2018, 14, e1704403.	10.0	72
10	A Natural Biopolymer Film as a Robust Protective Layer to Effectively Stabilize Lithium-Metal Anodes. <i>Small</i> , 2018, 14, e1801054.	10.0	61
11	High-performance rechargeable Li-CO ₂ /O ₂ battery with Ru/N-doped CNT catalyst. <i>Chemical Engineering Journal</i> , 2019, 363, 224-233.	12.7	58
12	Cubic MnS ²⁺ /FeS ₂ Composites Derived from a Prussian Blue Analogue as Anode Materials for Sodium-Ion Batteries with Long-Term Cycle Stability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43624-43633.	8.0	53
13	Three-Dimensional Networks of S-Doped Fe/N/C with Hierarchical Porosity for Efficient Oxygen Reduction in Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14602-14613.	8.0	50
14	Metal Organic Framework Nanorod Doped Solid Polymer Electrolyte with Decreased Crystallinity for High-Performance All-Solid-State Lithium Batteries. <i>ChemElectroChem</i> , 2020, 7, 1125-1134.	3.4	49
15	A Biconcave-Alleviated Strategy to Construct <i>Aspergillus niger</i> -Derived Carbon/MoS ₂ for Ultrastable Sodium Ion Storage. <i>ACS Nano</i> , 2021, 15, 13814-13825.	14.6	49
16	Si anode for next-generation lithium-ion battery. <i>Current Opinion in Electrochemistry</i> , 2019, 18, 46-54.	4.8	48
17	Metal-Hydroxide and Gold-Nanocluster Interfaces: Enhancing Catalyst Activity and Stability for Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29348-29357.	3.1	47
18	Fabrication of multi-shell coated silicon nanoparticles via in-situ electroless deposition as high performance anodes for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 160-168.	12.9	37

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19	High-Voltage LiCoO_2 Material Encapsulated in a $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Ultrathin Layer by High-Speed Solid-Phase Coating Process. <i>ACS Applied Energy Materials</i> , 2020, 3, 2593-2603.	5.1	36
20	Improving the Electrochemical Property of Silicon Anodes through Hydrogen-Bonding Cross-Linked Thiourea-Based Polymeric Binders. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 639-649.	8.0	36
21	Core-Shell Structured S@Co(OH)_2 with a Carbon-Nanofiber Interlayer: A Conductive Cathode with Suppressed Shuttling Effect for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4065-4073.	8.0	35
22	Suppressing Li dendrite by a protective biopolymeric film from tamarind seed polysaccharide for high-performance Li metal anode. <i>Electrochimica Acta</i> , 2019, 299, 636-644.	5.2	34
23	$\text{NiCo}_2\text{O}_4/\text{CNF}$ Separator Modifiers for Trapping and Catalyzing Polysulfides for High-Performance Lithium-Sulfur Batteries with High Sulfur Loadings and Lean Electrolytes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1804-1813.	6.7	31
24	Sodium-Alginate-Based Binders for Lithium-Rich Cathode Materials in Lithium-Ion Batteries to Suppress Voltage and Capacity Fading. <i>ChemElectroChem</i> , 2018, 5, 1321-1329.	3.4	29
25	Ultrahigh sulfur content up to 93 wt% encapsulated in multilayer nanoshell of V_2O_5 composite to suppress shuttle effect of lithium-sulfur battery with high-performance. <i>Materials Today Energy</i> , 2019, 13, 267-276.	4.7	29
26	Suppressing lithium dendrite growth by a synergetic effect of uniform nucleation and inhibition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4300-4307.	10.3	29
27	Quantitative nucleation and growth kinetics of gold nanoparticles via model-assisted dynamic spectroscopic approach. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 8-16.	9.4	28
28	Aluminum-Based Metal-Organic Frameworks Derived Al_2O_3 -Loading Mesoporous Carbon as a Host Matrix for Lithium-Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47939-47947.	8.0	26
29	Multivalent Amide-Hydrogen-Bond Supramolecular Binder Enhances the Cyclic Stability of Silicon-Based Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22567-22576.	8.0	26
30	Stabilized and Almost Dendrite-Free Li Metal Anodes by In Situ Construction of a Composite Protective Layer for Li Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5298-5307.	8.0	22
31	Co/Li-dual-site doping towards LiCoO_2 as a high-voltage, fast-charging, and long-cycling cathode material. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5295-5304.	10.3	21
32	$\text{Co}_3\text{O}_4@(\text{Fe-Doped})\text{Co(OH)}_2$ Microfibers: Facile Synthesis, Oriented-Assembly, Formation Mechanism, and High Electrocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30880-30890.	8.0	20
33	Fabrication of Si Nanoparticles@Conductive Carbon Framework@Polymer Composite as High-Areal Capacity Anode of Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 3258-3265.	3.4	20
34	$\text{Li}_0.5\text{PAA}$ domains filled in porous sodium alginate skeleton: A 3D bicontinuous composite network binder to stabilize micro-silicon anode for high-performance lithium ion battery. <i>Electrochimica Acta</i> , 2021, 386, 138361.	5.2	17
35	Alumina-Supported Metal Catalysts inside a Mesoporous Aluminum-Silicate Shell: Nanoscale Reactors Prepared through the Transformation of MIL-96(Al) Nanocrystals. <i>ChemCatChem</i> , 2016, 8, 1283-1287.	3.7	15
36	A dual force cross-linked β -PGA-PAA binder enhancing the cycle stability of silicon-based anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2022, 425, 140704.	5.2	15

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37	Transition-Metal-Ions-Induced Coalescence: Stitching Au Nanoclusters into Tubular Au-Based Nanocomposites. <i>Small</i> , 2016, 12, 2652-2664.	10.0	14
38	Adsorption and On-Site Transformation of Transition Metal Cations on Ni-Doped AlOOH Nanoflowers for OER Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5953-5962.	6.7	14
39	Towards active macro-mesoporous hydrotreating catalysts: synthesis and assembly of mesoporous alumina microspheres. <i>Catalysis Science and Technology</i> , 2018, 8, 1892-1904.	4.1	13
40	High Cycling Performance Li-S Battery via Fenugreek Gum Binder Through Chemical Bonding of the Binder with Polysulfides in Nanosulfur@CNFs Cathode. <i>ChemistrySelect</i> , 2020, 5, 8969-8979.	1.5	11
41	Interfacial Electron Delocalization in Engineering Nanosized Anti-Perovskite Nitride for Efficient CO ₂ Electroreduction. <i>Chemistry of Materials</i> , 2022, 34, 5607-5620.	6.7	11
42	Crystalline and amorphous phases: NiFeCo tri-metal phosphide as an efficient electrocatalyst to accelerate oxygen evolution reaction kinetics. <i>Electrochimica Acta</i> , 2022, 426, 140788.	5.2	11
43	A novel morphology-controlled synthesis of Na ⁺ -doped Li- and Mn-rich cathodes by the self-assembly of amphiphilic spherical micelles. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00171.	3.3	10
44	Synthesis, Self-Assembly, Transformation, and Functionalization of Nanoscale Artificial Allophane Spherules for Catalytic Applications. <i>Chemistry of Materials</i> , 2017, 29, 6076-6086.	6.7	9
45	Sulfur Microspheres Encapsulated in Porous Silver-Based Shell with Superior Performance for Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2018, 5, 1683-1690.	3.4	9
46	Seed-Induced Zeolitic TS-1 Immobilized with Bioinspired-Au Nanoparticles for Propylene Epoxidation with O ₂ and H ₂ . <i>Catalysis Letters</i> , 2020, 150, 1798-1811.	2.6	9
47	Transfer of Biosynthesized Gold Nanoparticles from Water into an Ionic Liquid Using Alkyltrimethyl Ammonium Bromide: An Anion-Exchange Process. <i>Langmuir</i> , 2011, 27, 166-169.	3.5	8
48	Kinetically Controlled Growth of Fine Gold Nanofractals from Au(I) via Indirect Galvanic Replacement Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21552-21561.	8.0	8
49	RuO ₂ nanoparticles supported on Ni and N co-doped carbon nanotubes as an efficient bifunctional electrocatalyst of lithium-oxygen battery. <i>Science China Materials</i> , 2021, 64, 2397-2408.	6.3	8
50	Onion-like metal-organic colloidosomes from counterion-induced self-assembly of anionic surfactants. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14091-14102.	10.3	7
51	Formulating a New Electrolyte: Synergy between Low-Polar and Non-polar Solvents in Tailoring the Solid Electrolyte Interface for the Silicon Anode. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55700-55711.	8.0	7
52	Synthesis-cum-assembly toward hierarchical nanoarchitectures. <i>Coordination Chemistry Reviews</i> , 2017, 352, 291-305.	18.8	6
53	Evolution of Cationic Vacancy Defects: A Motif for Surface Restructuration of OER Precatalyst. <i>Angewandte Chemie</i> , 2021, 133, 27033-27040.	2.0	5
54	The Si@C Network Electrode Prepared by an In-Situ Carbonization Strategy with Enhanced Cycle Performance. <i>ChemElectroChem</i> , 2020, 7, 4999-5004.	3.4	4

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55	Controlled Synthesis of Porous Hollow Fe@N/C Nanoshells as High-Performance Oxygen Reduction Reaction Electrocatalysts for Zn-Air Battery. <i>Energy Technology</i> , 2021, 9, 2100142.	3.8	4
56	Customizing Multifunctional Sulfur Host Materials Via a General Anion-Exchange Process with Metal-Organic Solid. <i>Advanced Functional Materials</i> , 2021, 31, 2104513.	14.9	4
57	“ALL FREE” a novel design concept of applying partial oxidation process to vehicle engine. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 207-212.	0.6	0
58	Electron/ion Conductor Double-coated $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Li-ion Battery Cathode Material and Its Electrochemical Performance. <i>Acta Chimica Sinica</i> , 2022, 80, 485.	1.4	0