

Hua Huo

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,940
citations

279487

23
h-index

253896

43
g-index

50
all docs

50
docs citations

50
times ranked

2479
citing authors

#	ARTICLE	IF	CITATIONS
1	Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803963.	10.2	240
2	Pseudocapacitive Li^+ intercalation in porous $\text{Ti}_2\text{Nb}_{10}\text{O}_{29}$ nanospheres enables ultra-fast lithium storage. <i>Energy Storage Materials</i> , 2018, 11, 57-66.	9.5	163
3	Local Structure and Dynamics in the Na Ion Battery Positive Electrode Material $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$. <i>Chemistry of Materials</i> , 2014, 26, 2513-2521.	3.2	156
4	Achieving long-life Prussian blue analogue cathode for Na-ion batteries via triple-cation lattice substitution and coordinated water capture. <i>Nano Energy</i> , 2019, 61, 201-210.	8.2	121
5	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. <i>Energy Storage Materials</i> , 2018, 11, 197-204.	9.5	117
6	^{17}O Magic Angle Spinning NMR Studies of Brønsted Acid Sites in Zeolites HY and HZSM-5. <i>Journal of the American Chemical Society</i> , 2007, 129, 335-346.	6.6	90
7	Bifunctional $\text{LaMn}_{0.3}\text{Co}_{0.7}\text{O}_3$ Perovskite Oxide Catalyst for Oxygen Reduction and Evolution Reactions: The Optimized <i>eg</i> Electronic Structures by Manganese Dopant. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24717-24725.	4.0	85
8	Engineering Molecular Polymerization for Template-Free SiO_x/C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101145.	7.8	74
9	Dendrites in Solid-State Batteries: Ion Transport Behavior, Advanced Characterization, and Interface Regulation. <i>Advanced Energy Materials</i> , 2021, 11, 2003250.	10.2	69
10	Ni-MOF derived NiO/C nanospheres grown in situ on reduced graphene oxide towards high performance hybrid supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 801, 158-165.	2.8	64
11	Progressive concentration gradient nickel-rich oxide cathode material for high-energy and long-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7728-7735.	5.2	61
12	A bifunctional perovskite oxide catalyst: The triggered oxygen reduction/evolution electrocatalysis by moderated Mn-Ni co-doping. <i>Journal of Energy Chemistry</i> , 2021, 54, 217-224.	7.1	49
13	Pseudocapacitive Li^+ storage boosts ultrahigh rate performance of structure-tailored $\text{CoFe}_2\text{O}_4@/\text{Fe}_2\text{O}_3$ hollow spheres triggered by engineered surface and near-surface reactions. <i>Nano Energy</i> , 2019, 66, 104179.	8.2	45
14	A quasi-solid-state Li^+S battery with high energy density, superior stability and safety. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6533-6542.	5.2	42
15	Unraveling the reaction mechanism of low dose Mn dopant in $\text{Ni}(\text{OH})_2$ supercapacitor electrode. <i>Journal of Energy Chemistry</i> , 2021, 61, 497-506.	7.1	41
16	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. <i>Carbon</i> , 2017, 122, 635-642.	5.4	39
17	Cobalt-Doped NiS_2 Micro/Nanostructures with Complete Solid Solubility as High-Performance Cathode Materials for Actual High-Specific-Energy Thermal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50377-50387.	4.0	39
18	A Review of Magnesium Aluminum Chloride Complex Electrolytes for Mg Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2100650.	7.8	39

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19	Layered porous silicon encapsulated in carbon nanotube cage as ultra-stable anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 133982.	6.6	38
20	Formation of an Artificial Mg ²⁺ -Permeable Interphase on Mg Anodes Compatible with Ether and Carbonate Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24565-24574.	4.0	36
21	Unraveling the Origins of the "Unreactive Core" in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. <i>ACS Energy Letters</i> , 2019, 4, 2007-2012.	8.8	33
22	Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46705-46713.	4.0	31
23	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. <i>ChemElectroChem</i> , 2018, 5, 1569-1575.	1.7	29
24	Investigating the Origin of the Enhanced Sodium Storage Capacity of Transition Metal Sulfide Anodes in Ether-Based Electrolytes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	24
25	Perovskite LaCo _x Mn _{1-x} O ₃ with Tunable Defect and Surface Structures as Cathode Catalysts for Li ₂ O Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10452-10460.	4.0	23
26	17O Solid-State NMR Studies of ZrO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4158-4167.	1.5	17
27	Lithium-Ion Batteries: Radially Oriented Single-Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode Material for Lithium-Ion Batteries (<i>Adv. Energy Mater.</i> 15/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970051.	10.2	14
28	Achieving high-energy-density magnesium/sulfur battery via a passivation-free Mg-Li alloy anode. <i>Energy Storage Materials</i> , 2022, 50, 380-386.	9.5	14
29	Construction of polysulfides defense system for greatly improving the long cycle life of metal sulfide anodes for sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2022, 71, 210-217.	7.1	13
30	Unraveling the Relationship between Ti ⁴⁺ Doping and Li ⁺ Mobility Enhancement in Ti ⁴⁺ Doped Li ₃ V ₂ (PO ₄) ₃ . <i>ACS Applied Energy Materials</i> , 2020, 3, 715-722.	2.5	11
31	Cycling stability of Li ₃ V ₂ (PO ₄) ₃ /C cathode in a broad electrochemical window. <i>Journal of Electroanalytical Chemistry</i> , 2016, 774, 76-82.	1.9	9
32	Probing local structure of paramagnetic Ni-Al layered double hydroxides with solid-state 2H NMR spectroscopy. <i>Chemical Physics Letters</i> , 2018, 706, 47-52.	1.2	9
33	Investigating the Structure of an Active Material "Carbon Interface in the Monoclinic Li ₃ V ₂ (PO ₄) ₃ /C Composite Cathode. <i>ACS Applied Energy Materials</i> , 2019, 2, 3692-3702.	2.5	9
34	Facile carbon fiber-sewed high areal density electrode for lithium sulfur batteries. <i>Chemical Communications</i> , 2020, 56, 10758-10761.	2.2	9
35	π-π Conjugation Induced Anchoring of Ferrocene on Graphdiyne Enable Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. <i>Advanced Science</i> , 2022, 9, e2103964.	5.6	9
36	Hierarchical NiMn/NiMn-LDH/ppy-C induced by a novel phase-transformation activation process for long-life supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 1020-1028.	5.0	9

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37	A porous N-doped carbon aggregate as sulfur host for lithium-sulfur batteries. <i>Ionics</i> , 2019, 25, 2131-2138.	1.2	8
38	Monovacancy Coupled Pyridinic N Site Enables Surging Oxygen Reduction Activity of Metal-Free CN _x Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1264-1271.	3.2	8
39	DNA Helix Structure Inspired Flexible Lithium-Ion Batteries with High Spiral Deformability and Long-Lived Cyclic Stability. <i>Nano Letters</i> , 2022, 22, 5553-5560.	4.5	8
40	Surface-Phase Engineering via Lanthanum Doping Enables Enhanced Electrochemical Performance of Li-Rich Layered Cathode. <i>ACS Applied Energy Materials</i> , 2022, 5, 9648-9656.	2.5	8
41	Magnesium/chloride co-doping of lithium vanadium phosphate cathodes for enhanced stable lifetime in lithium-ion batteries. <i>New Journal of Chemistry</i> , 2018, 42, 13667-13673.	1.4	7
42	Roles of coating carbon, conductive additive and binders in lithium vanadium phosphate/reduced graphene oxide composite cathodes. <i>New Journal of Chemistry</i> , 2017, 41, 14228-14235.	1.4	6
43	Developing a Double Protection Strategy for High-Performance Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 6401-6409.	2.5	6
44	The origins of kinetics hysteresis and irreversibility of monoclinic Li ₃ V ₂ (PO ₄) ₃ . <i>Journal of Energy Chemistry</i> , 2022, 67, 593-603.	7.1	4
45	Tuning the phase evolution pathway of LiNi _{0.5} Mn _{1.5} O ₄ synthesis from binary intermediates to ternary intermediates with thermal regulating agent. <i>Journal of Energy Chemistry</i> , 2022, 65, 62-70.	7.1	4
46	Insight into the Electrochemical Behaviors of NCM811 SiO ₂ Pouch Battery through Thickness Variation. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	4
47	Nuclear magnetic resonance studies of organic-inorganic composite solid electrolytes. <i>Magnetic Resonance Letters</i> , 2021, 1, 142-152.	0.7	3
48	Bifunctional electrolyte additive KI to improve the cycling performance of Li ⁺ O ₂ batteries. <i>New Journal of Chemistry</i> , 2018, 42, 17311-17316.	1.4	2