

Zhiguo Hou

List of Publications by Year in descending order

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35
papers

2,159
citations

304743

22
h-index

361022

35
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all docs

35
docs citations

35
times ranked

2788
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant widens the electrochemical window of an aqueous electrolyte for better rechargeable aqueous sodium/zinc battery. <i>Journal of Materials Chemistry A</i> , 2017, 5, 730-738.	10.3	287
2	Ultrathin γ -MnO ₂ nanosheets as cathode for aqueous rechargeable zinc ion battery. <i>Electrochimica Acta</i> , 2019, 304, 370-377.	5.2	207
3	An aqueous rechargeable sodium ion battery based on a NaMnO ₂ /NaTi ₂ (PO ₄) ₃ hybrid system for stationary energy storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1400-1404.	10.3	179
4	Amorphous S-rich S _{1-x} Se _x /C (x ≈ 0.1) composites promise better lithium-sulfur batteries in a carbonate-based electrolyte. <i>Energy and Environmental Science</i> , 2015, 8, 3181-3186.	30.8	164
5	A Deep Reduction and Partial Oxidation Strategy for Fabrication of Mesoporous Si Anode for Lithium Ion Batteries. <i>ACS Nano</i> , 2016, 10, 2295-2304.	14.6	121
6	A New Salt-Baked Approach for Confining Selenium in Metal Complex-Derived Porous Carbon with Superior Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2015, 25, 5229-5238.	14.9	117
7	NaTi ₂ (PO ₄) ₃ Solid-State Electrolyte Protection Layer on Zn Metal Anode for Superior Long-Life Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2004885.	14.9	115
8	SnS ₂ - Compared to SnO ₂ -Stabilized S/C Composites toward High-Performance Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19550-19557.	8.0	102
9	Graphene-Supported NaTi ₂ (PO ₄) ₃ as a High Rate Anode Material for Aqueous Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1181-A1187.	2.9	98
10	A High-Energy and Long-Life Aqueous Zn/Birnessite Battery via Reversible Water and Zn ²⁺ Coinsertion. <i>Small</i> , 2020, 16, e2001228.	10.0	75
11	Honeycomb-like Macro-Germanium as High-Capacity Anodes for Lithium-Ion Batteries with Good Cycling and Rate Performance. <i>Chemistry of Materials</i> , 2015, 27, 4156-4164.	6.7	70
12	Na-birnessite with high capacity and long cycle life for rechargeable aqueous sodium-ion battery cathode electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 856-860.	10.3	62
13	Nanoporous silicon prepared through air-oxidation demagnesiumation of Mg ₂ Si and properties of its lithium ion batteries. <i>Chemical Communications</i> , 2015, 51, 7230-7233.	4.1	61
14	Formation of Solid-Electrolyte Interfaces in Aqueous Electrolytes by Altering Cation-Solvation Shell Structure. <i>Advanced Energy Materials</i> , 2020, 10, 1903665.	19.5	59
15	Sulfur-Rich Phosphorus Sulfide Molecules for Use in Rechargeable Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2937-2941.	13.8	50
16	Electrolyte solvation structure manipulation enables safe and stable aqueous sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14190-14197.	10.3	42
17	Passivation effect for current collectors enables high-voltage aqueous sodium ion batteries. <i>Materials Today Energy</i> , 2019, 14, 100337.	4.7	32
18	Recycling chicken eggshell membranes for high-capacity sodium battery anodes. <i>RSC Advances</i> , 2014, 4, 50950-50954.	3.6	31

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19	Towards High-Performance Aqueous Sodium Ion Batteries: Constructing Hollow NaTi ₂ (PO ₄) ₃ @C Nanocube Anode with Zn Metal-Induced Pre-Sodiation and Deep Eutectic Electrolyte. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	30
20	A Composite Structure of Cu ₃ Ge/Ge/C Anode Promise Better Rate Property for Lithium Battery. <i>Small</i> , 2016, 12, 6024-6032.	10.0	26
21	MoO ₂ nanoparticles as high capacity intercalation anode material for long-cycle lithium ion battery. <i>Electrochimica Acta</i> , 2016, 213, 416-422.	5.2	26
22	Aqueous electrolyte with moderate concentration enables high-energy aqueous rechargeable lithium ion battery for large scale energy storage. <i>Energy Storage Materials</i> , 2022, 46, 147-154.	18.0	26
23	Construction of hierarchical MoSe ₂ @C hollow nanospheres for efficient lithium/sodium ion storage. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1691-1698.	6.0	22
24	Hierarchical interlayer-expanded MoSe ₂ /N-C nanorods for high-rate and long-life sodium and potassium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1271-1278.	6.0	22
25	High-Voltage and Super-Stable Aqueous Sodium-Zinc Hybrid Ion Batteries Enabled by Double Solvation Structures in Concentrated Electrolyte. <i>Small Methods</i> , 2021, 5, e2100418.	8.6	22
26	Pb-Doped Lithium-Rich Cathode Material for High Energy Density Lithium-Ion Full Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2960-A2965.	2.9	16
27	Aqueous Rechargeable Li ⁺ /Na ⁺ Hybrid Ion Battery with High Energy Density and Long Cycle Life. <i>Small</i> , 2020, 16, e2003585.	10.0	16
28	One-pot synthesis of uniform MoSe ₂ nanoparticles as high performance anode materials for lithium/sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166306.	5.5	15
29	Synthesis of NaTi ₂ (PO ₄) ₃ @C microspheres by an in situ process and their electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155300.	5.5	12
30	A large format aqueous rechargeable LiMn ₂ O ₄ /Zn battery with high energy density and long cycle life. <i>Science China Materials</i> , 2021, 64, 783-788.	6.3	12
31	Electron-redistributed Ni-Co oxide nanoarrays as an ORR/OER bifunctional catalyst for low overpotential and long lifespan Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14613-14621.	10.3	12
32	An aqueous rechargeable lithium ion battery with long cycle life and overcharge self-protection. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2749-2757.	5.9	9
33	Synchronously synthesized Si@C composites through solvothermal oxidation of Mg ₂ Si as lithium ion battery anode. <i>RSC Advances</i> , 2015, 5, 71355-71359.	3.6	8
34	Bipolar electrode architecture enables high-energy aqueous rechargeable sodium ion battery. <i>Nano Research</i> , 2022, 15, 5072-5080.	10.4	7
35	Sulfur-Rich Phosphorus Sulfide Molecules for Use in Rechargeable Lithium Batteries. <i>Angewandte Chemie</i> , 2017, 129, 2983-2987.	2.0	6