

Zhen Hou

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,183
citations

430874

18
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing high-power and high-capacity zinc/sodium metal anodes through interfacial chemistry regulation. <i>Nature Communications</i> , 2021, 12, 3083.	12.8	167
2	Tailoring desolvation kinetics enables stable zinc metal anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19367-19374.	10.3	136
3	Lithiophilic Ag Nanoparticle Layer on Cu Current Collector toward Stable Li Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8148-8154.	8.0	120
4	SnP _{0.94} nanoplates/graphene oxide composite for novel potassium-ion battery anode. <i>Chemical Engineering Journal</i> , 2019, 370, 677-683.	12.7	77
5	Towards high-performance lithium metal anodes via the modification of solid electrolyte interphases. <i>Journal of Energy Chemistry</i> , 2020, 45, 7-17.	12.9	74
6	Unraveling the Rate-Dependent Stability of Metal Anodes and Its Implication in Designing Cycling Protocol. <i>Advanced Functional Materials</i> , 2022, 32, 2107584.	14.9	63
7	Hybrid Protective Layer for Stable Sodium Metal Anodes at High Utilization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37693-37700.	8.0	51
8	Elastomer-Alginate Interface for High-Power and High-Energy Zn Metal Anodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	51
9	Yolk-shell structured SnSe as a high-performance anode for Na-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 562-565.	6.0	48
10	Poly(vinylidene difluoride) coating on Cu current collector for high-performance Na metal anode. <i>Energy Storage Materials</i> , 2020, 24, 588-593.	18.0	48
11	Realizing wide-temperature Zn metal anodes through concurrent interface stability regulation and solvation structure modulation. <i>Energy Storage Materials</i> , 2021, 42, 517-525.	18.0	47
12	Building an artificial solid electrolyte interphase with high-uniformity and fast ion diffusion for ultralong-life sodium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16232-16237.	10.3	43
13	3D Printing of Hierarchical Graphene Lattice for Advanced Na Metal Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 3869-3877.	5.1	40
14	Critical Roles of Mechanical Properties of Solid Electrolyte Interphase for Potassium Metal Anodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	31
15	Ni ₃ N Nanocrystals Decorated Reduced Graphene Oxide with High Ionic Conductivity for Stable Lithium Metal Anode. <i>ACS Applied Energy Materials</i> , 2019, 2, 2692-2698.	5.1	30
16	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. <i>Electrochimica Acta</i> , 2019, 294, 413-422.	5.2	28
17	Dendrite-Free lithium electrode enabled by graphene aerogels with gradient porosity. <i>Energy Storage Materials</i> , 2020, 33, 329-335.	18.0	28
18	Unlocking the Reversible Selenium Electrode for Non-Aqueous and Aqueous Calcium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	22

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19	Polymer-Inorganic Composite Protective Layer for Stable Na Metal Anodes. ACS Applied Energy Materials, 2020, 3, 2900-2906.	5.1	19
20	Constructing resilient solid electrolyte interphases on carbon nanofiber film for advanced potassium metal anodes. Carbon, 2022, 186, 141-149.	10.3	17
21	Monodisperse tin nanoparticles and hollow tin oxide nanospheres as anode materials for high performance lithium ion batteries. Inorganic Chemistry Frontiers, 2019, 6, 473-476.	6.0	14
22	Large-scale sodiophilic/buffered alloy architecture enables deeply cyclable Na metal anodes. Chemical Engineering Journal, 2022, 433, 133270.	12.7	13
23	Stabilizing Microsized Sn Anodes for Na-Ion Batteries with Extended Ether Electrolyte Chemistry. ACS Applied Energy Materials, 2022, 5, 2252-2259.	5.1	7
24	Controllable synthesis of platinum-tin intermetallic nanoparticles with high electrocatalytic performance for ethanol oxidation. Inorganic Chemistry Frontiers, 2022, 9, 1143-1151.	6.0	5
25	A freestanding hydroxylated carbon nanotube film boosting the stability of Zn metal anodes. Materials Today Communications, 2022, 32, 103939.	1.9	4