

Zhenyu Xing

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

4,169
citations

218677

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345221

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docs citations

41
times ranked

5264
citing authors

#	ARTICLE	IF	CITATIONS
1	Hard Carbon Microspheres: Potassium-Ion Anode Versus Sodium-Ion Anode. <i>Advanced Energy Materials</i> , 2016, 6, 1501874.	19.5	814
2	Hard-Soft Composite Carbon as a Long-Cycling and High-Rate Anode for Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1700324.	14.9	471
3	Burning lithium in CS ₂ for high-performing compact Li ₂ S-graphene nanocapsules for Li-S batteries. <i>Nature Energy</i> , 2017, 2, .	39.5	349
4	Mechanism of Na-Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. <i>Advanced Energy Materials</i> , 2017, 7, 1602894.	19.5	332
5	Novel Potassium-Ion Hybrid Capacitor Based on an Anode of K ₂ Ti ₆ O ₁₃ Microscaffolds. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15542-15547.	8.0	209
6	Electrochemically Expandable Soft Carbon as Anodes for Na-Ion Batteries. <i>ACS Central Science</i> , 2015, 1, 516-522.	11.3	202
7	Polynanocrystalline Graphite: A New Carbon Anode with Superior Cycling Performance for K-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4343-4351.	8.0	200
8	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by PO _x Doping. <i>ACS Energy Letters</i> , 2016, 1, 395-401.	17.4	172
9	A perylene anhydride crystal as a reversible electrode for K-ion batteries. <i>Energy Storage Materials</i> , 2016, 2, 63-68.	18.0	141
10	Ship in a Bottle-Design of Highly Efficient Bifunctional Electrocatalysts for Long-Lasting Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2019, 13, 7062-7072.	14.6	120
11	Aqueous intercalation-type electrode materials for grid-level energy storage: Beyond the limits of lithium and sodium. <i>Nano Energy</i> , 2018, 50, 229-244.	16.0	108
12	A High-Power Symmetric Na-Ion Pseudocapacitor. <i>Advanced Functional Materials</i> , 2015, 25, 5778-5785.	14.9	105
13	Recessed deposition of TiN into N-doped carbon as a cathode host for superior Li-S batteries performance. <i>Nano Energy</i> , 2018, 54, 1-9.	16.0	103
14	Reducing CO ₂ to dense nanoporous graphene by Mg/Zn for high power electrochemical capacitors. <i>Nano Energy</i> , 2015, 11, 600-610.	16.0	100
15	Crack-free single-crystal LiNi _{0.83} Co _{0.10} Mn _{0.07} O ₂ as cycling/thermal stable cathode materials for high-voltage lithium-ion batteries. <i>Electrochimica Acta</i> , 2021, 365, 137380.	5.2	96
16	Creation of a new type of ion exchange material for rapid, high-capacity, reversible and selective ion exchange without swelling and entrainment. <i>Chemical Science</i> , 2016, 7, 2138-2144.	7.4	72
17	Consolidating Lithiothermic-Ready Transition Metals for Li ₂ S-Based Cathodes. <i>Advanced Materials</i> , 2020, 32, e2002403.	21.0	59
18	Identify the Removable Substructure in Carbon Activation. <i>Chemistry of Materials</i> , 2017, 29, 7288-7295.	6.7	51

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19	Influence of enhanced carbon crystallinity of nanoporous graphite on the cathode performance of microbial fuel cells. <i>Carbon</i> , 2017, 115, 271-278.	10.3	50
20	Carbon-pore-sheathed cobalt nanoseeds: An exceptional and durable bifunctional catalyst for zinc-air batteries. <i>Nano Energy</i> , 2019, 65, 104051.	16.0	43
21	A 1.8 V Aqueous Supercapacitor with a Bipolar Assembly of Ion-Exchange Membranes as the Separator. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1853-A1858.	2.9	42
22	A Brief Review of Metallothermic Reduction Reactions for Materials Preparation. <i>Small Methods</i> , 2018, 2, 1800062.	8.6	42
23	Delayed Phase Transition and Improved Cycling/Thermal Stability by Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Modification for LiCoO_2 Cathode at High Voltages. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27339-27349.	8.0	41
24	Direct fabrication of nanoporous graphene from graphene oxide by adding a gasification agent to a magnesiothermic reaction. <i>Chemical Communications</i> , 2015, 51, 1969-1971.	4.1	39
25	Nitrogen-Doped Nanoporous Graphenic Carbon: An Efficient Conducting Support for O_2 Cathode. <i>ChemNanoMat</i> , 2016, 2, 692-697.	2.8	38
26	Aqueous-Solution-Processed Hybrid Solar Cells from Poly(1,4-naphthalenevinylene) and CdTe Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2919-2923.	8.0	32
27	$\text{LiCoO}_2@ \text{LiNi}_{0.45}\text{Al}_{0.05}\text{Mn}_{0.5}\text{O}_2$ as high-voltage lithium-ion battery cathode materials with improved cycling performance and thermal stability. <i>Electrochimica Acta</i> , 2019, 327, 135018.	5.2	30
28	Aqueous-solution-processed hybrid solar cells with good thermal and morphological stability. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 254-261.	6.2	26
29	CoFe Alloy-Decorated Interlayer with a Synergistic Catalytic Effect Improves the Electrochemical Kinetics of Polysulfide Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57193-57203.	8.0	24
30	Development of novel polyethylene air-cathode material for microbial fuel cells. <i>Energy</i> , 2018, 155, 763-771.	8.8	13
31	A graphitized hierarchical porous carbon as an advanced cathode host for alkali metal-selenium batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133527.	12.7	13
32	Extraction of Lithium from Single-Crystalline Lithium Manganese Oxide Nanotubes Using Ammonium Peroxodisulfate. <i>IScience</i> , 2020, 23, 101768.	4.1	10
33	Mo_2C Electrocatalysts for Kinetically Boosting Polysulfide Conversion in Quasi-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45651-45660.	8.0	7
34	Anode Materials: Hard Carbon Microspheres: Potassium-Ion Anode Versus Sodium-Ion Anode (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	19.9	5
35	Honokiol inhibits <i>Vibrio harveyi</i> hemolysin virulence by reducing its haemolytic activity. <i>Aquaculture Research</i> , 2020, 51, 206-214.	1.8	5
36	Lithiothermic Synchronous Construction of MoS_2 -Graphene Nanocomposites for High-Energy $\text{Li}_2\text{S}/\text{Si}_3\text{C}_2$ Battery. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	5

#	ARTICLE	IF	CITATIONS
37	Research Progress of Key Materials for Sodium-selenium Batteries. Acta Chimica Sinica, 2021, 79, 641.	1.4	0
38	Unlock High Capacity of Hard Carbon Anodes in Na-Ion Batteries By Increasing Structural Defects Via Phosphorus Doping. ECS Meeting Abstracts, 2016, , .	0.0	0
39	A High-Power Symmetric Na-Ion Pseudocapacitor. ECS Meeting Abstracts, 2016, , .	0.0	0
40	Carbon Electrodes for Potassium-Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0