

Xu-Dong Zhang

List of Publications by Year in descending order

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papers

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218381

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Dendrite-Free Li-Metal Battery Enabled by a Thin Asymmetric Solid Electrolyte with Engineered Layers. <i>Journal of the American Chemical Society</i> , 2018, 140, 82-85.	6.6	404
2	Suppressing Surface Lattice Oxygen Release of Li-Rich Cathode Materials via Heterostructured Spinel $\text{Li}_{0.4}\text{Mn}_{0.5}\text{O}_{12}$ Coating. <i>Advanced Materials</i> , 2018, 30, e1801751.	11.1	348
3	Upgrading traditional liquid electrolyte via in situ gelation for future lithium metal batteries. <i>Science Advances</i> , 2018, 4, eaat5383.	4.7	337
4	High-Capacity Cathode Material with High Voltage for Li-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, 1705575.	11.1	333
5	Enhancing the Kinetics of Li-Rich Cathode Materials through the Pinning Effects of Gradient Surface Na^{+} Doping. <i>Advanced Energy Materials</i> , 2016, 6, 1501914.	10.2	288
6	Engineering Janus Interfaces of Ceramic Electrolyte via Distinct Functional Polymers for Stable High-Voltage Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2019, 141, 9165-9169.	6.6	272
7	Mitigating Voltage Decay of Li-Rich Cathode Material via Increasing Ni Content for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20138-20146.	4.0	197
8	Mitigating Interfacial Potential Drop of Cathode-Solid Electrolyte via Ionic Conductor Layer To Enhance Interface Dynamics for Solid Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 6767-6770.	6.6	192
9	A Stable Layered Oxide Cathode Material for High-Performance Sodium-Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1803978.	10.2	191
10	Tuning wettability of molten lithium via a chemical strategy for lithium metal anodes. <i>Nature Communications</i> , 2019, 10, 4930.	5.8	181
11	Bridging Interparticle Li^{+} Conduction in a Soft Ceramic Oxide Electrolyte. <i>Journal of the American Chemical Society</i> , 2021, 143, 5717-5726.	6.6	144
12	Exposing {010} Active Facets by Multiple-Layer Oriented Stacking Nanosheets for High-Performance Capacitive Sodium-Ion Oxide Cathode. <i>Advanced Materials</i> , 2018, 30, e1803765.	11.1	142
13	Uniform Nucleation of Lithium in 3D Current Collectors via Bromide Intermediates for Stable Cycling Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 18051-18057.	6.6	138
14	Ameliorating the Interfacial Problems of Cathode and Solid-State Electrolytes by Interface Modification of Functional Polymers. <i>Advanced Energy Materials</i> , 2018, 8, 1801528.	10.2	127
15	Boron-doped sodium layered oxide for reversible oxygen redox reaction in Na-ion battery cathodes. <i>Nature Communications</i> , 2021, 12, 5267.	5.8	122
16	A Layered-Tunnel Intergrowth Structure for High-Performance Sodium-Ion Oxide Cathode. <i>Advanced Energy Materials</i> , 2018, 8, 1800492.	10.2	116
17	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6585-6589.	7.2	84
18	High-Thermal- and Air-Stability Cathode Material with Concentration-Gradient Buffer for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42829-42835.	4.0	74

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19	Structure Design of Cathode Electrodes for Solid-State Batteries: Challenges and Progress. <i>Small Structures</i> , 2020, 1, 2000042.	6.9	73
20	Microbial-Phosphorus-Enabled Synthesis of Phosphide Nanocomposites for Efficient Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 11248-11253.	6.6	70
21	Cooperative Shielding of Bi-Electrodes via In Situ Amorphous Electrode-Electrolyte Interphases for Practical High-Energy Lithium-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 16768-16776.	6.6	68
22	Air-Stable and High-Voltage Layered P3-Type Cathode for Sodium-Ion Full Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24184-24191.	4.0	58
23	Improving the structural stability of Li-rich cathode materials via reservation of cations in the Li-slab for Li-ion batteries. <i>Nano Research</i> , 2017, 10, 4201-4209.	5.8	56
24	Improving the stability of $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ by AlPO_4 nanocoating for lithium-ion batteries. <i>Science China Chemistry</i> , 2017, 60, 1230-1235.	4.2	52
25	P3/O3 Integrated Layered Oxide as High-Power and Long-Life Cathode toward Na-Ion Batteries. <i>Small</i> , 2021, 17, e2007236.	5.2	49
26	Designing High-Performance Composite Electrodes for Vanadium Redox Flow Batteries: Experimental and Computational Investigation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22381-22388.	4.0	42
27	Enabling a Durable Electrochemical Interface via an Artificial Amorphous Cathode Electrolyte Interphase for Hybrid Solid/Liquid Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 6647-6651.	1.6	26
28	MnII, CuII and CoII coordination polymers showing antiferromagnetism, and the coexistence of spin frustration and long range magnetic ordering. <i>CrystEngComm</i> , 2013, 15, 7756.	1.3	24
29	Gradiently Polymerized Solid Electrolyte Meets with Micro-/Nanostructured Cathode Array. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18005-18011.	4.0	23
30	Structurally modulated Li-rich cathode materials through cooperative cation doping and anion hybridization. <i>Science China Chemistry</i> , 2017, 60, 1554-1560.	4.2	22
31	Perspective on liquid metal enabled space science and technology. <i>Science China Technological Sciences</i> , 2020, 63, 1127-1140.	2.0	20
32	Unconventional hydrodynamics of hybrid fluid made of liquid metals and aqueous solution under applied fields. <i>Frontiers in Energy</i> , 2018, 12, 276-296.	1.2	19
33	Robust Electrodes with Maximized Spatial Catalysis for Vanadium Redox Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38922-38927.	4.0	19
34	Iron oxyfluorides as lithium-free cathode materials for solid-state Li metal batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18464-18468.	5.2	16
35	trans-Difluoroethylene Carbonate as an Electrolyte Additive for Microsized SiO_x @C Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24916-24924.	4.0	16
36	Lithium-Ion Batteries: Suppressing Manganese Dissolution via Exposing Stable {111} Facets for High-Performance Lithium-Ion Oxide Cathode (Adv. Sci. 13/2019). <i>Advanced Science</i> , 2019, 6, 1970076.	5.6	14

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37	Cathode Materials: Enhancing the Kinetics of Li-Rich Cathode Materials through the Pinning Effects of Gradient Surface Na ⁺ Doping (Adv. Energy Mater. 6/2016). Advanced Energy Materials, 2016, 6, .	10.2	10
38	Hydrothermal Synthesis and Structural Characterization of a Three-Dimensional Coordination Polymer on Ag(I). Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2016, 46, 730-734.	0.6	4
39	Investigation of factors affecting vertical sag of stretched wire. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	1.3	3