

Yaosen Tian

List of Publications by Year in descending order

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19
papers

2,725
citations

516710

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794594

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times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Promises and Challenges of Next-Generation "Beyond Li-ion" Batteries for Electric Vehicles and Grid Decarbonization. <i>Chemical Reviews</i> , 2021, 121, 1623-1669.	47.7	769
2	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. <i>Nature Materials</i> , 2021, 20, 214-221.	27.5	290
3	Compatibility issues between electrodes and electrolytes in solid-state batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1150-1166.	30.8	267
4	High magnesium mobility in ternary spinel chalcogenides. <i>Nature Communications</i> , 2017, 8, 1759.	12.8	212
5	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. <i>Nature Energy</i> , 2020, 5, 213-221.	39.5	158
6	High Active Material Loading in All-Solid-State Battery Electrode via Particle Size Optimization. <i>Advanced Energy Materials</i> , 2020, 10, 1902881.	19.5	152
7	A New Strategy for High-Voltage Cathodes for K-ion Batteries: Stoichiometric $KVPO_{4-x}F_x$. <i>Advanced Energy Materials</i> , 2018, 8, 1801591.	19.5	130
8	Improved Cycling Performance of Li-Excess Cation-Disordered Cathode Materials upon Fluorine Substitution. <i>Advanced Energy Materials</i> , 2019, 9, 1802959.	19.5	127
9	Reactivity-Guided Interface Design in Na Metal Solid-State Batteries. <i>Joule</i> , 2019, 3, 1037-1050.	24.0	120
10	A High-Energy NASICON-Type Cathode Material for Na-ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903968.	19.5	116
11	Design Principles for High-Capacity Mn-Based Cation-Disordered Rocksalt Cathodes. <i>CheM</i> , 2020, 6, 153-168.	11.7	103
12	Direct Visualization of the Interfacial Degradation of Cathode Coatings in Solid State Batteries: A Combined Experimental and Computational Study. <i>Advanced Energy Materials</i> , 2020, 10, 1903778.	19.5	67
13	Non-topotactic reactions enable high rate capability in Li-rich cathode materials. <i>Nature Energy</i> , 2021, 6, 706-714.	39.5	65
14	Computational Investigation and Experimental Realization of Disordered High-Capacity Li-Ion Cathodes Based on Ni Redox. <i>Chemistry of Materials</i> , 2019, 31, 2431-2442.	6.7	50
15	Investigation of Alkali-Ion (Li, Na, and K) Intercalation in $K_{1-x}VPO_{4-x}F_x$ ($x = 1/4, 0$) Cathode. <i>Advanced Functional Materials</i> , 2019, 29, 1902392.	14.9	35
16	Origin of Capacity Degradation of High-Voltage $KVPO_{4-x}F_x$ Cathode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110555.	2.9	22
17	The Impact of Surface Structure Transformations on the Performance of Li-Excess Cation-Disordered Rocksalt Cathodes. <i>Cell Reports Physical Science</i> , 2020, 1, 100187.	5.6	20
18	Computational and experimental search for potential polyanionic K-ion cathode materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18564-18575.	10.3	15

#	ARTICLE	IF	CITATIONS
19	All-Solid-State Batteries: High Active Material Loading in All-Solid-State Battery Electrode via Particle Size Optimization (Adv. Energy Mater. 1/2020). Advanced Energy Materials, 2020, 10, 2070004.	19.5	7