Yaosen Tian

List of Publications by Year
in descending order

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19	2,725	516710 16	794594 19
papers	citations	h-index	g-index

20	20	20	2822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cation-disordered rocksalt-type high-entropy cathodes for Li-ion batteries. Nature Materials, 2021, 20, 214-221.	27.5	290
2	Promises and Challenges of Next-Generation â€œBeyond Li-ionâ€•Batteries for Electric Vehicles and Grid Decarbonization. Chemical Reviews, 2021, 121, 1623-1669.	47.7	769
3	Computational and experimental search for potential polyanionic K-ion cathode materials. Journal of Materials Chemistry A, 2021, 9, 18564-18575.	10.3	15
4	Non-topotactic reactions enable high rate capability in Li-rich cathode materials. Nature Energy, 2021, 6, 706-714.	39.5	65
5	Design Principles for High-Capacity Mn-Based Cation-Disordered Rocksalt Cathodes. CheM, 2020, 6, 153-168.	11.7	103
6	Allâ€Solidâ€State Batteries: High Active Material Loading in Allâ€Solidâ€State Battery Electrode via Particle Size Optimization (Adv. Energy Mater. 1/2020). Advanced Energy Materials, 2020, 10, 2070004.	19.5	7
7	High Active Material Loading in Allâ€Solidâ€State Battery Electrode via Particle Size Optimization. Advanced Energy Materials, 2020, 10, 1902881.	19.5	152
8	The Impact of Surface Structure Transformations on the Performance of Li-Excess Cation-Disordered Rocksalt Cathodes. Cell Reports Physical Science, 2020, 1, 100187.	5.6	20
9	Direct Visualization of the Interfacial Degradation of Cathode Coatings in Solid State Batteries: A Combined Experimental and Computational Study. Advanced Energy Materials, 2020, 10, 1903778.	19.5	67
10	Ultrahigh power and energy density in partially ordered lithium-ion cathode materials. Nature Energy, 2020, 5, 213-221.	39.5	158
11	A Highâ€Energy NASICONâ€Type Cathode Material for Naâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1903968.	19.5	116
12	Origin of Capacity Degradation of High-Voltage KVPO₄F Cathode. Journal of the Electrochemical Society, 2020, 167, 110555.	2.9	22
13	Reactivity-Guided Interface Design in Na Metal Solid-State Batteries. Joule, 2019, 3, 1037-1050.	24.0	120
14	Investigation of Alkaliâ€Ion (Li, Na, and K) Intercalation in K_xVPO₄F (x â‰¤ 0) Cathode. Advanced Functional Materials, 2019, 29, 1902392.	14.9	35
15	Computational Investigation and Experimental Realization of Disordered High-Capacity Li-Ion Cathodes Based on Ni Redox. Chemistry of Materials, 2019, 31, 2431-2442.	6.7	50
16	Improved Cycling Performance of Liâ€Excess Cationâ€Disordered Cathode Materials upon Fluorine Substitution. Advanced Energy Materials, 2019, 9, 1802959.	19.5	127
17	A New Strategy for Highâ€Voltage Cathodes for Kâ€Ion Batteries: Stoichiometric KVPO₄F. Advanced Energy Materials, 2018, 8, 1801591.	19.5	130
18	Compatibility issues between electrodes and electrolytes in solid-state batteries. Energy and Environmental Science, 2017, 10, 1150-1166.	30.8	267

#	Article	IF	Citations
19	High magnesium mobility in ternary spinel chalcogenides. Nature Communications, 2017, 8, 1759.	12.8	212