

Yikai Jia

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

1,116
citations

687363

13
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	Safety issues and mechanisms of lithium-ion battery cell upon mechanical abusive loading: A review. <i>Energy Storage Materials</i> , 2020, 24, 85-112.	18.0	395
2	Safety issues caused by internal short circuits in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21475-21484.	10.3	181
3	Unlocking the coupling mechanical-electrochemical behavior of lithium-ion battery upon dynamic mechanical loading. <i>Energy</i> , 2019, 166, 951-960.	8.8	80
4	Thermal runaway propagation behavior within 18,650 lithium-ion battery packs: A modeling study. <i>Journal of Energy Storage</i> , 2020, 31, 101668.	8.1	77
5	Coupling Effect of State-of-Health and State-of-Charge on the Mechanical Integrity of Lithium-Ion Batteries. <i>Experimental Mechanics</i> , 2018, 58, 633-643.	2.0	66
6	Safety issues of defective lithium-ion batteries: identification and risk evaluation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12472-12484.	10.3	55
7	Data-Driven Safety Risk Prediction of Lithium-Ion Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2003868.	19.5	55
8	Coupled crack propagation and dendrite growth in solid electrolyte of all-solid-state battery. <i>Nano Energy</i> , 2021, 86, 106057.	16.0	51
9	Multiphysics coupled computational model for commercialized Si/graphite composite anode. <i>Journal of Power Sources</i> , 2020, 450, 227667.	7.8	49
10	A multiphysics understanding of internal short circuit mechanisms in lithium-ion batteries upon mechanical stress abuse. <i>Energy Storage Materials</i> , 2022, 45, 667-679.	18.0	38
11	Effective thermo-electro-mechanical modeling framework of lithium-ion batteries based on a representative volume element approach. <i>Journal of Energy Storage</i> , 2021, 33, 102090.	8.1	22
12	Deformation and fracture behaviors of cylindrical battery shell during thermal runaway. <i>Journal of Power Sources</i> , 2022, 539, 231607.	7.8	18
13	Mechanics-Driven Anode Material Failure in Battery Safety and Capacity Deterioration Issues: A Review. <i>Applied Mechanics Reviews</i> , 2022, 74, .	10.1	16
14	Mechanistic understanding of the electrochemo-dependent mechanical behaviors of battery anodes. <i>Journal of Power Sources</i> , 2021, 510, 230428.	7.8	8
15	Modeling of Thermal Propagation Based on Two Cylindrical Lithium-Ion Cells. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	2.1	5