

Bin Wu

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

911
citations

933447

10
h-index

1125743

13
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16
all docs

16
docs citations

16
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ Memristors Exhibiting Variable Switching Characteristics toward Biorealistic Synaptic Emulation. ACS Nano, 2018, 12, 9240-9252.	14.6	191
2	Examining temporal and spatial variations of internal temperature in large-format laminated battery with embedded thermocouples. Journal of Power Sources, 2013, 241, 536-553.	7.8	136
3	Simultaneous estimation of thermal parameters for large-format laminated lithium-ion batteries. Journal of Power Sources, 2014, 259, 106-116.	7.8	117
4	Thermal Design for the Pouch-Type Large-Format Lithium-Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A181-A191.	2.9	105
5	Comparison and validation of methods for estimating heat generation rate of large-format lithium-ion batteries. Journal of Thermal Analysis and Calorimetry, 2014, 117, 447-461.	3.6	79
6	Application of artificial neural networks in design of lithium-ion batteries. Journal of Power Sources, 2018, 395, 128-136.	7.8	76
7	A battery model that fully couples mechanics and electrochemistry at both particle and electrode levels by incorporation of particle interaction. Journal of Power Sources, 2017, 360, 360-372.	7.8	73
8	A consistently coupled multiscale mechanical-electrochemical battery model with particle interaction and its validation. Journal of the Mechanics and Physics of Solids, 2019, 125, 89-111.	4.8	54
9	Mechanical Modeling of Particles with Active Core-Shell Structures for Lithium-Ion Battery Electrodes. Journal of Physical Chemistry C, 2017, 121, 19022-19030.	3.1	34
10	Mechanical-Electrochemical Modeling of Agglomerate Particles in Lithium-Ion Battery Electrodes. Journal of the Electrochemical Society, 2016, 163, A3131-A3139.	2.9	27
11	Physics-encoded deep learning in identifying battery parameters without direct knowledge of ground truth. Applied Energy, 2022, 321, 119390.	10.1	9
12	Thermal modelling of large-format laminated Li-ion battery and experimental validation using embedded thermocouples. , 2013, , .		3
13	Design, Experiment, and Commissioning of the Spent Fuel Conveying and Loading System of HTR-PM. Science and Technology of Nuclear Installations, 2022, 2022, 1-8.	0.8	3
14	Simultaneous Estimation of Multiple Thermal Parameters of Large-Format Laminated Lithium-Ion Batteries. , 2013, , .		2
15	Development of a thermal-hydraulic analysis code TAC-DS for spent fuel dry-storage system for high-temperature pebble bed reactor. Journal of Nuclear Science and Technology, 2018, 55, 301-318.	1.3	1
16	Kinetic Monte Carlo Simulation of Lithium Dendrite Growth in Lithium-ion Battery. , 2021, , .		1