

Jiangong Zhu

List of Publications by Year in descending order

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43
papers

1,847
citations

304743

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44
all docs

44
docs citations

44
times ranked

968
citing authors

#	ARTICLE	IF	CITATIONS
1	Unlocking the thermal safety evolution of lithium-ion batteries under shallow over-discharge. Journal of Power Sources, 2022, 521, 230990.	7.8	25
2	Nonlinear health evaluation for lithium-ion battery within full-lifespan. Journal of Energy Chemistry, 2022, 72, 333-341.	12.9	69
3	Multi-objective optimization design and experimental investigation for a parallel liquid cooling-based Lithium-ion battery module under fast charging. Applied Thermal Engineering, 2022, 211, 118503.	6.0	41
4	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation. Nature Communications, 2022, 13, 2261.	12.8	133
5	Investigation the Degradation Mechanisms of Lithium-Ion Batteries under Low-Temperature High-Rate Cycling. ACS Applied Energy Materials, 2022, 5, 6462-6471.	5.1	20
6	Multiscale investigation of discharge rate dependence of capacity fade for lithium-ion battery. Journal of Power Sources, 2022, 536, 231516.	7.8	16
7	Revealing the Impact of Fast Charge Cycling on the Thermal Safety of Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 7056-7068.	5.1	12
8	Alternating Current Impedance Probing Capacity of Lithium-Ion Battery by Gaussian Process Regression. Energy Technology, 2022, 10, .	3.8	4
9	A comparative study of different features extracted from electrochemical impedance spectroscopy in state of health estimation for lithium-ion batteries. Applied Energy, 2022, 322, 119502.	10.1	98
10	A review of modeling, acquisition, and application of lithium-ion battery impedance for onboard battery management. ETransportation, 2021, 7, 100093.	14.8	206
11	Lithium plating on the anode for lithium-ion batteries during long-term low temperature cycling. Journal of Power Sources, 2021, 484, 229312.	7.8	79
12	Low-Temperature Separating Lithium-Ion Battery Interfacial Polarization Based on Distribution of Relaxation Times (DRT) of Impedance. IEEE Transactions on Transportation Electrification, 2021, 7, 410-421.	7.8	29
13	Experimental and modeling analysis of thermal runaway for $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$. International Journal of Energy Research, 2021, 45, 10667-10681.	4.5	6
14	Investigation of capacity fade for 18650-type lithium-ion batteries cycled in different state of charge (SoC) ranges. Journal of Power Sources, 2021, 489, 229422.	7.8	48
15	Internal short circuit mechanisms, experimental approaches and detection methods of lithium-ion batteries for electric vehicles: A review. Renewable and Sustainable Energy Reviews, 2021, 141, 110790.	16.4	108
16	Comprehensive Investigation of a Slight Overcharge on Degradation and Thermal Runaway Behavior of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 35054-35068.	8.0	50
17	Managing Life Span of High-Energy $\text{LiNi}_{0.88}\text{Co}_{0.11}\text{Al}_{0.01}\text{O}_2$ Ca^{2+} Si Li-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 9982-10002.	5.1	8
18	Investigating the critical characteristics of thermal runaway process for LiFePO_4 /graphite batteries by a ceased segmented method. IScience, 2021, 24, 103088.	4.1	11

#	ARTICLE	IF	CITATIONS
19	Revealing the Impact of Slight Electrical Abuse on the Thermal Safety Characteristics for Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 12858-12870.	5.1	20
20	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. Journal of Power Sources, 2020, 448, 227575.	7.8	155
21	Fatigue in High-Energy Commercial Li Batteries while Cycling at Standard Conditions: An In Situ Neutron Powder Diffraction Study. ACS Applied Energy Materials, 2020, 3, 6611-6622.	5.1	27
22	Lithium-ion battery temperature on-line estimation based on fast impedance calculation. Journal of Energy Storage, 2019, 26, 100952.	8.1	39
23	<i>In Operando</i> analysis of the charge storage mechanism in a conversion ZnCo ₂ O ₄ anode and the application in flexible Li-ion batteries. Inorganic Chemistry Frontiers, 2019, 6, 1861-1872.	6.0	10
24	A State of Health Estimation Method for Lithium-Ion Batteries Based on Voltage Relaxation Model. Energies, 2019, 12, 1349.	3.1	17
25	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. Applied Energy, 2019, 248, 149-161.	10.1	60
26	Experimental investigations of an AC pulse heating method for vehicular high power lithium-ion batteries at subzero temperatures. Journal of Power Sources, 2017, 367, 145-157.	7.8	98
27	Battery Internal Temperature Estimation for LiFePO ₄ Battery Based on Impedance Phase Shift under Operating Conditions. Energies, 2017, 10, 60.	3.1	39
28	An alternating current heating method for lithium-ion batteries from subzero temperatures. International Journal of Energy Research, 2016, 40, 1869-1883.	4.5	80
29	Studies on the medium-frequency impedance arc for Lithium-ion batteries considering various alternating current amplitudes. Journal of Applied Electrochemistry, 2016, 46, 157-167.	2.9	59
30	Preliminary Study on the Influence of Internal Temperature Gradient on EIS Measurement and Characterization for Li-Ion Batteries. , 2015, , .		1
31	Research on Charging Strategy of Lithium-ion Battery. , 2015, , .		2
32	A Lithium-Ion Battery Optimized Equivalent Circuit Model based on Electrochemical Impedance Spectroscopy. , 2015, , .		1
33	Adaptive Kalman filtering based internal temperature estimation with an equivalent electrical network thermal model for hard-cased batteries. Journal of Power Sources, 2015, 293, 351-365.	7.8	85
34	A new lithium-ion battery internal temperature on-line estimate method based on electrochemical impedance spectroscopy measurement. Journal of Power Sources, 2015, 274, 990-1004.	7.8	155
35	Effect of Electrode Tabs Configuration on the Electric-Thermal Behavior of a Li-Ion Battery. , 2014, , .		0
36	Lithium-Ion Battery Internal Resistance Model Based on the Porous Electrode Theory. , 2014, , .		2

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37	A new electrochemical impedance spectroscopy model of a high-power lithium-ion battery. RSC Advances, 2014, 4, 29988-29998.	3.6	30
38	Preliminary Study of a Distributed Thermal Model for a LFP Battery in COMSOL Inc. Multiphysics(MP) Software. , 2013, , .		0
39	Experimental Investigation of AC Pulse Heating Method for NMC Lithium-Ion Battery at Subzero Temperatures. , 0, , .		0
40	A Novel Battery Impedance Model Considering Internal Temperature Gradient. , 0, , .		0
41	A Neural Network-Based Regression Study for a Hybrid Battery Thermal Management System under Fast Charging. SAE International Journal of Electrified Vehicles, 0, 11, .	0.0	1
42	Investigation on the Impact of High-Temperature Calendar and Cyclic Aging on Battery Overcharge Performance. SAE International Journal of Advances and Current Practices in Mobility, 0, 4, 1953-1960.	2.0	1
43	Comparative Thermal Runaway Behavior Analysis of High-Nickel Lithium-Ion Batteries with Different Specifications. , 0, , .		0