

# Jiangong Zhu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31  
papers

673  
citations

14  
h-index

25  
g-index

44  
ext. papers

1,087  
ext. citations

7.4  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
31	A new lithium-ion battery internal temperature on-line estimate method based on electrochemical impedance spectroscopy measurement. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 990-1004	8.9	99
30	Experimental investigations of an AC pulse heating method for vehicular high power lithium-ion batteries at subzero temperatures. <i>Journal of Power Sources</i> , <b>2017</b> , 367, 145-157	8.9	64
29	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. <i>Journal of Power Sources</i> , <b>2020</b> , 448, 227575	8.9	64
28	A review of modeling, acquisition, and application of lithium-ion battery impedance for onboard battery management. <i>ETransportation</i> , <b>2021</b> , 7, 100093	12.7	62
27	Adaptive Kalman filtering based internal temperature estimation with an equivalent electrical network thermal model for hard-cased batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 293, 351-365	8.9	54
26	An alternating current heating method for lithium-ion batteries from subzero temperatures. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 1869-1883	4.5	54
25	Studies on the medium-frequency impedance arc for Lithium-ion batteries considering various alternating current amplitudes. <i>Journal of Applied Electrochemistry</i> , <b>2016</b> , 46, 157-167	2.6	41
24	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. <i>Applied Energy</i> , <b>2019</b> , 248, 149-161	10.7	33
23	A new electrochemical impedance spectroscopy model of a high-power lithium-ion battery. <i>RSC Advances</i> , <b>2014</b> , 4, 29988-29998	3.7	25
22	Internal short circuit mechanisms, experimental approaches and detection methods of lithium-ion batteries for electric vehicles: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 141, 110790	16.2	23
21	Battery Internal Temperature Estimation for LiFePO <sub>4</sub> Battery Based on Impedance Phase Shift under Operating Conditions. <i>Energies</i> , <b>2017</b> , 10, 60	3.1	22
20	Lithium-ion battery temperature on-line estimation based on fast impedance calculation. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100952	7.8	18
19	Lithium plating on the anode for lithium-ion batteries during long-term low temperature cycling. <i>Journal of Power Sources</i> , <b>2021</b> , 484, 229312	8.9	18
18	Fatigue in High-Energy Commercial Li Batteries while Cycling at Standard Conditions: An In Situ Neutron Powder Diffraction Study. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6611-6622	6.1	16
17	Investigation of capacity fade for 18650-type lithium-ion batteries cycled in different state of charge (SoC) ranges. <i>Journal of Power Sources</i> , <b>2021</b> , 489, 229422	8.9	13
16	Comprehensive Investigation of a Slight Overcharge on Degradation and Thermal Runaway Behavior of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 35054-35068	9.5	10
15	A State of Health Estimation Method for Lithium-Ion Batteries Based on Voltage Relaxation Model. <i>Energies</i> , <b>2019</b> , 12, 1349	3.1	8

14	Low-Temperature Separating Lithium-Ion Battery Interfacial Polarization Based on Distribution of Relaxation Times (DRT) of Impedance. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 410-421	7.6	5
13	In Operando analysis of the charge storage mechanism in a conversion ZnCo <sub>2</sub> O <sub>4</sub> anode and the application in flexible Li-ion batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1861-1872	6.8	4
12	Revealing the Impact of Slight Electrical Abuse on the Thermal Safety Characteristics for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	4
11	Unlocking the thermal safety evolution of lithium-ion batteries under shallow over-discharge. <i>Journal of Power Sources</i> , <b>2022</b> , 521, 230990	8.9	3
10	Managing Life Span of High-Energy LiNi <sub>0.88</sub> Co <sub>0.11</sub> Al <sub>0.01</sub> O <sub>2</sub>  C Bi Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 9982-10002	6.1	3
9	Multi-objective optimization design and experimental investigation for a parallel liquid cooling-based Lithium-ion battery module under fast charging. <i>Applied Thermal Engineering</i> , <b>2022</b> , 211, 118503	5.8	3
8	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation.. <i>Nature Communications</i> , <b>2022</b> , 13, 2261	17.4	3
7	Research on Charging Strategy of Lithium-ion Battery <b>2015</b> ,		2
6	Lithium-Ion Battery Internal Resistance Model Based on the Porous Electrode Theory <b>2014</b> ,		2
5	Multiscale investigation of discharge rate dependence of capacity fade for lithium-ion battery. <i>Journal of Power Sources</i> , <b>2022</b> , 536, 231516	8.9	2
4	Preliminary Study on the Influence of Internal Temperature Gradient on EIS Measurement and Characterization for Li-Ion Batteries <b>2015</b> ,		1
3	A Lithium-Ion Battery Optimized Equivalent Circuit Model based on Electrochemical Impedance Spectroscopy <b>2015</b> ,		1
2	Experimental and modeling analysis of thermal runaway for LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> /graphite pouch cell under adiabatic condition. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 10667-10681	4.5	1
1	Investigating the critical characteristics of thermal runaway process for LiFePO <sub>4</sub> /graphite batteries by a ceased segmented method. <i>IScience</i> , <b>2021</b> , 24, 103088	6.1	1