Jiangong Zhu

List of Publications by Year in Descending Order

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	Unlocking the thermal safety evolution of lithium-ion batteries under shallow over-discharge. *Journal of Power Sources*, **2022**, 521, 230990	8.9	3
30	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	5.8	3
29	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation.. *Nature Communications*, **2022**, 13, 2261	17.4	3
28	Multiscale investigation of discharge rate dependence of capacity fade for lithium-ion battery. *Journal of Power Sources*, **2022**, 536, 231516	8.9	2
27	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	8.9	13
26	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	16.2	23
25	Comprehensive Investigation of a Slight Overcharge on Degradation and Thermal Runaway Behavior of Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 35054-35068	9.5	10
24	A review of modeling, acquisition, and application of lithium-ion battery impedance for onboard battery management. *ETransportation*, **2021**, 7, 100093	12.7	62
23	Lithium plating on the anode for lithium-ion batteries during long-term low temperature cycling. *Journal of Power Sources*, **2021**, 484, 229312	8.9	18
22	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	7.6	5
21	Experimental and modeling analysis of thermal runaway for LiNi0.5Mn0.3Co0.2O2/graphite pouch cell under adiabatic condition. *International Journal of Energy Research*, **2021**, 45, 10667-10681	4.5	1
20	Managing Life Span of High-Energy LiNi0.88Co0.11Al0.01O2|C Si Li-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 9982-10002	6.1	3
19	Investigating the critical characteristics of thermal runaway process for LiFePO/graphite batteries by a ceased segmented method. *IScience*, **2021**, 24, 103088	6.1	1
18	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	6.1	16
17	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. *Journal of Power Sources*, **2020**, 448, 227575	8.9	64
16	In Operando analysis of the charge storage mechanism in a conversion ZnCo2O4 anode and the application in flexible Li-ion batteries. *Inorganic Chemistry Frontiers*, **2019**, 6, 1861-1872	6.8	4
15	A State of Health Estimation Method for Lithium-Ion Batteries Based on Voltage Relaxation Model. *Energies*, **2019**, 12, 1349	3.1	8

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14	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. *Applied Energy*, **2019**, 248, 149-161	10.7	33
13	Lithium-ion battery temperature on-line estimation based on fast impedance calculation. *Journal of Energy Storage*, **2019**, 26, 100952	7.8	18
12	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	8.9	64
11	Battery Internal Temperature Estimation for LiFePO4 Battery Based on Impedance Phase Shift under Operating Conditions. *Energies*, **2017**, 10, 60	3.1	22
10	An alternating current heating method for lithium-ion batteries from subzero temperatures. *International Journal of Energy Research*, **2016**, 40, 1869-1883	4.5	54
9	Studies on the medium-frequency impedance arc for Lithium-ion batteries considering various alternating current amplitudes. *Journal of Applied Electrochemistry*, **2016**, 46, 157-167	2.6	41
8	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	8.9	54
7	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	8.9	99
6	Preliminary Study on the Influence of Internal Temperature Gradient on EIS Measurement and Characterization for Li-Ion Batteries **2015**,		1
5	Research on Charging Strategy of Lithium-ion Battery **2015**,		2
4	A Lithium-Ion Battery Optimized Equivalent Circuit Model based on Electrochemical Impedance Spectroscopy **2015**,		1
3	A new electrochemical impedance spectroscopy model of a high-power lithium-ion battery. *RSC Advances*, **2014**, 4, 29988-29998	3.7	25
2	Lithium-Ion Battery Internal Resistance Model Based on the Porous Electrode Theory **2014**,		2
1	Revealing the Impact of Slight Electrical Abuse on the Thermal Safety Characteristics for Lithium-Ion Batteries. *ACS Applied Energy Materials*,	6.1	4