

Xuezhe Wei

List of Publications by Year in descending order

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63
papers

3,411
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236612

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times ranked

2183
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Kernel Relevance Vector Machine With Parameter Optimization for Cycling Aging Prediction of Lithium-Ion Batteries. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 175-186.	3.7	24
2	Advanced Online Broadband Impedance Spectrum Acquisition of Fuel Cells by S-Transform. IEEE Transactions on Industrial Electronics, 2023, 70, 3740-3750.	5.2	4
3	A Cell-to-Pack State Estimation Extension Method Based on a Multilayer Difference Model for Series-Connected Battery Packs. IEEE Transactions on Transportation Electrification, 2022, 8, 2037-2049.	5.3	17
4	Fast Calculation of Broadband Battery Impedance Spectra Based on S Transform of Step Disturbance and Response. IEEE Transactions on Transportation Electrification, 2022, 8, 3659-3672.	5.3	17
5	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation. Nature Communications, 2022, 13, 2261.	5.8	133
6	Investigation the Degradation Mechanisms of Lithium-Ion Batteries under Low-Temperature High-Rate Cycling. ACS Applied Energy Materials, 2022, 5, 6462-6471.	2.5	20
7	Multiscale investigation of discharge rate dependence of capacity fade for lithium-ion battery. Journal of Power Sources, 2022, 536, 231516.	4.0	16
8	Revealing the Impact of Fast Charge Cycling on the Thermal Safety of Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 7056-7068.	2.5	12
9	A Self-Tuning LCC/SP System for Electric Vehicle Wireless Charging against Large Self- and Mutual Inductance Variations. Energies, 2022, 15, 3980.	1.6	2
10	Alternating Current Impedance Probing Capacity of Lithium-Ion Battery by Gaussian Process Regression. Energy Technology, 2022, 10, .	1.8	4
11	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.	5.1	98
12	A Novel System for Measuring Alternating Current Impedance Spectra of Series-Connected Lithium-Ion Batteries With a High-Power Dual Active Bridge Converter and Distributed Sampling Units. IEEE Transactions on Industrial Electronics, 2021, 68, 7380-7390.	5.2	38
13	A review of modeling, acquisition, and application of lithium-ion battery impedance for onboard battery management. ETransportation, 2021, 7, 100093.	6.8	206
14	Lithium plating on the anode for lithium-ion batteries during long-term low temperature cycling. Journal of Power Sources, 2021, 484, 229312.	4.0	79
15	An experimental investigation for a hybrid <sc>phase change material</sc> -liquid cooling strategy to achieve high-temperature uniformity of Li-ion battery module under fast charging. International Journal of Energy Research, 2021, 45, 6198-6212.	2.2	24
16	Advanced battery management strategies for a sustainable energy future: Multilayer design concepts and research trends. Renewable and Sustainable Energy Reviews, 2021, 138, 110480.	8.2	170
17	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.	5.3	29
18	Quantitative Analysis of Degradation Modes of Lithium-Ion Battery under Different Operating Conditions. Energies, 2021, 14, 350.	1.6	10

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19	Charging Strategy Optimization at Low Temperatures for Li-Ion Batteries Based on Multi-Factor Coupling Aging Model. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 11433-11445.	3.9	15
20	Experimental and modeling analysis of thermal runaway for $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$. <i>International Journal of Energy Research</i> , 2021, 45, 10667-10681.	2.2	6
21	Investigation of capacity fade for 18650-type lithium-ion batteries cycled in different state of charge (SoC) ranges. <i>Journal of Power Sources</i> , 2021, 489, 229422.	4.0	48
22	Deep reinforcement learning-based energy management of hybrid battery systems in electric vehicles. <i>Journal of Energy Storage</i> , 2021, 36, 102355.	3.9	67
23	A novel dual time scale life prediction method for lithium-ion batteries considering effects of temperature and state of charge. <i>International Journal of Energy Research</i> , 2021, 45, 14692-14709.	2.2	8
24	Investigation on Cell Performance and Inconsistency Evolution of Series and Parallel Lithium-Ion Battery Modules. <i>Energy Technology</i> , 2021, 9, 2100072.	1.8	6
25	Determination of Optimal Indicators Based on Statistical Analysis for the State of Health Estimation of a Lithium-Ion Battery. <i>Frontiers in Energy Research</i> , 2021, 9, .	1.2	12
26	Comprehensive Investigation of a Slight Overcharge on Degradation and Thermal Runaway Behavior of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35054-35068.	4.0	50
27	Investigating the critical characteristics of thermal runaway process for LiFePO_4 /graphite batteries by a ceased segmented method. <i>IScience</i> , 2021, 24, 103088.	1.9	11
28	A Comprehensive Flowrate Optimization Design for a Novel Air-Liquid Cooling Coupled Battery Thermal Management System. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	1.1	17
29	Revealing the Impact of Slight Electrical Abuse on the Thermal Safety Characteristics for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 12858-12870.	2.5	20
30	Building Safe Lithium-Ion Batteries for Electric Vehicles: A Review. <i>Electrochemical Energy Reviews</i> , 2020, 3, 1-42.	13.1	448
31	Investigation of lithium-ion battery degradation mechanisms by combining differential voltage analysis and alternating current impedance. <i>Journal of Power Sources</i> , 2020, 448, 227575.	4.0	155
32	Preparation of a Graphitized-Carbon-Supported PtNi Octahedral Catalyst and Application in a Proton-Exchange Membrane Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7047-7056.	4.0	23
33	Incremental capacity analysis based adaptive capacity estimation for lithium-ion battery considering charging condition. <i>Applied Energy</i> , 2020, 269, 115074.	5.1	108
34	Joint estimation of lithium-ion battery state of charge and capacity within an adaptive variable multi-timescale framework considering current measurement offset. <i>Applied Energy</i> , 2019, 253, 113619.	5.1	89
35	Lithium-ion battery temperature on-line estimation based on fast impedance calculation. <i>Journal of Energy Storage</i> , 2019, 26, 100952.	3.9	39
36	Estimation of state of health of lithium-ion batteries based on charge transfer resistance considering different temperature and state of charge. <i>Journal of Energy Storage</i> , 2019, 21, 618-631.	3.9	145

#	ARTICLE	IF	CITATIONS
37	A State of Health Estimation Method for Lithium-Ion Batteries Based on Voltage Relaxation Model. <i>Energies</i> , 2019, 12, 1349.	1.6	17
38	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. <i>Applied Energy</i> , 2019, 248, 149-161.	5.1	60
39	A Remaining Discharge Energy Prediction Method for Lithium-Ion Battery Pack Considering SOC and Parameter Inconsistency. <i>Energies</i> , 2019, 12, 987.	1.6	10
40	Practical On-Board Measurement of Lithium Ion Battery Impedance Based on Distributed Voltage and Current Sampling. <i>Energies</i> , 2018, 11, 64.	1.6	26
41	Theoretical Analysis of Planar Spiral Coils between Two Multilayer Media for Electric Vehicle Wireless Charging. <i>Energies</i> , 2018, 11, 693.	1.6	4
42	Experimental investigations of an AC pulse heating method for vehicular high power lithium-ion batteries at subzero temperatures. <i>Journal of Power Sources</i> , 2017, 367, 145-157.	4.0	98
43	Battery Internal Temperature Estimation for LiFePO ₄ Battery Based on Impedance Phase Shift under Operating Conditions. <i>Energies</i> , 2017, 10, 60.	1.6	39
44	Online Reliable Peak Charge/Discharge Power Estimation of Series-Connected Lithium-Ion Battery Packs. <i>Energies</i> , 2017, 10, 390.	1.6	20
45	A Discussion on a Feedback Mechanism of Estimated OCV in RLS Algorithm Based on Battery Equivalent Circuit Model. , 2017, , .		1
46	Adaptive model parameter identification for large capacity Li-ion batteries on separated time scales. <i>Applied Energy</i> , 2016, 184, 119-131.	5.1	103
47	An alternating current heating method for lithium-ion batteries from subzero temperatures. <i>International Journal of Energy Research</i> , 2016, 40, 1869-1883.	2.2	80
48	Studies on the medium-frequency impedance arc for Lithium-ion batteries considering various alternating current amplitudes. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 157-167.	1.5	59
49	Preliminary Study on the Influence of Internal Temperature Gradient on EIS Measurement and Characterization for Li-Ion Batteries. , 2015, , .		1
50	An Improved Discrete Preisach Model of Open Circuit Voltage Hysteresis for LiFePO ₄ Batteries. , 2015, , .		2
51	Adaptive Kalman filtering based internal temperature estimation with an equivalent electrical network thermal model for hard-cased batteries. <i>Journal of Power Sources</i> , 2015, 293, 351-365.	4.0	85
52	A Critical Review of Wireless Power Transfer via Strongly Coupled Magnetic Resonances. <i>Energies</i> , 2014, 7, 4316-4341.	1.6	179
53	Lithium-Ion Battery Internal Resistance Model Based on the Porous Electrode Theory. , 2014, , .		2
54	A Semi-Empirical Capacity Degradation Model of EV Li-Ion Batteries Based on Eyring Equation. , 2013, , .		14

#	ARTICLE	IF	CITATIONS
55	A Simulation of Lithium-Ion Battery Ohmic Resistance Identification. , 2013, , .		1
56	Preliminary Study of a Distributed Thermal Model for a LFP Battery in COMSOL Inc. Multiphysics(MP) Software. , 2013, , .		0
57	Principle Elaboration and System Structure Validation of Wireless Power Transfer via Strongly Coupled Magnetic Resonances. , 2013, , .		8
58	Online cell SOC estimation of Li-ion battery packs using a dual time-scale Kalman filtering for EV applications. Applied Energy, 2012, 95, 227-237.	5.1	295
59	Design and implementation of RLS identification algorithm based on FPGA. , 2009, , .		2
60	Internal Resistance Identification in Vehicle Power Lithium-Ion Battery and Application in Lifetime Evaluation. , 2009, , .		51
61	The research of vehicle power Li-ion battery pack balancing method. , 2009, , .		27
62	Assessment of power consumption control strategy for battery management system using hardware-in-the-loop simulation. , 2008, , .		2
63	Online SOC Estimation of High-power Lithium-ion Batteries Used on HEVs. , 2006, , .		46