

Haifeng Dai

List of Publications by Year in Descending Order

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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.

115
papers

2,282
citations

27
h-index

45
g-index

145
ext. papers

3,544
ext. citations

7.3
avg, IF

5.86
L-index

#	Paper	IF	Citations
115	A Comparative Study of Equivalent Circuit Models for Electro-Chemical Impedance Spectroscopy Analysis of Proton Exchange Membrane Fuel Cells. <i>Energies</i> , 2022 , 15, 386	3.1	1
114	Voltammetric and galvanostatic methods for measuring hydrogen crossover in fuel cell.. <i>IScience</i> , 2022 , 25, 103576	6.1	1
113	Unlocking the thermal safety evolution of lithium-ion batteries under shallow over-discharge. <i>Journal of Power Sources</i> , 2022 , 521, 230990	8.9	3
112	Multi-objective optimization design for a double-direction liquid heating system-based Cell-to-Chassis battery module. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122184	4.9	10
111	Investigation of the thermal responses under gas channel and land inside proton exchange membrane fuel cell with assembly pressure. <i>Applied Energy</i> , 2022 , 308, 118377	10.7	1
110	Online quantitative diagnosis of internal short circuit for lithium-ion batteries using incremental capacity method. <i>Energy</i> , 2022 , 243, 123082	7.9	8
109	Understanding dynamic behavior of proton exchange membrane fuel cell in the view of internal dynamics based on impedance. <i>Chemical Engineering Journal</i> , 2022 , 431, 134035	14.7	7
108	Intelligent health states recognition of fuel cell by cell voltage consistency under typical operating parameters. <i>Applied Energy</i> , 2022 , 305, 117735	10.7	1
107	Remaining discharge energy estimation for lithium-ion batteries based on future load prediction considering temperature and ageing effects. <i>Energy</i> , 2022 , 238, 121754	7.9	11
106	Fast Calculation of Broadband Battery Impedance Spectra based on S Transform of Step Disturbance and Response. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	2
105	A Self-Tuning LCC/LCC System Based on Switch-Controlled Capacitors for Constant-Power Wireless Electric Vehicle Charging. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	6
104	Accurate state of charge prediction for real-world battery systems using a novel dual-dropout-based neural network. <i>Energy</i> , 2022 , 250, 123853	7.9	1
103	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> , 2022 , 211, 118503	5.8	3
102	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation.. <i>Nature Communications</i> , 2022 , 13, 2261	17.4	3
101	Toward safe carbon-neutral transportation: Battery internal short circuit diagnosis based on cloud data for electric vehicles. <i>Applied Energy</i> , 2022 , 317, 119168	10.7	1
100	Multiscale investigation of discharge rate dependence of capacity fade for lithium-ion battery. <i>Journal of Power Sources</i> , 2022 , 536, 231516	8.9	2
99	A new insight into the effects of agglomerate parameters on internal dynamics of proton exchange membrane fuel cell by an advanced impedance dimension model. <i>Energy</i> , 2022 , 253, 124202	7.9	0

98	Advanced Online Broadband Impedance Spectrum Acquisition of Fuel Cells by S-transform. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	0
97	A Self-Tuning LCC/SP System for Electric Vehicle Wireless Charging against Large Self- and Mutual Inductance Variations. <i>Energies</i> , 2022 , 15, 3980	3.1	
96	Lithium-ion battery capacity estimation based on open circuit voltage identification using the iteratively reweighted least squares at different aging levels. <i>Journal of Energy Storage</i> , 2021 , 44, 103487	7.8	1
95	Battery Capacity Estimation Based on Incremental Capacity Analysis Considering Charging Current Rate. <i>World Electric Vehicle Journal</i> , 2021 , 12, 224	2.5	0
94	Study on the thermal transient of cathode catalyst layer in proton exchange membrane fuel cell under dynamic loading with a two-dimensional model. <i>Chemical Engineering Journal</i> , 2021 , 133667	14.7	1
93	Multi-kernel Relevance Vector Machine with Parameter Optimization for Cycling Aging Prediction of Lithium-ion Batteries. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
92	A fault diagnosis model for proton exchange membrane fuel cell based on impedance identification with differential evolution algorithm. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 38795-38808	6.7	1
91	Numerical analysis of static and dynamic heat transfer behaviors inside proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2021 , 488, 229419	8.9	4
90	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	8.9	13
89	Research progress of heat transfer inside proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021 , 492, 229613	8.9	7
88	Deep reinforcement learning-based energy management of hybrid battery systems in electric vehicles. <i>Journal of Energy Storage</i> , 2021 , 36, 102355	7.8	23
87	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	4.5	1
86	Investigation on Cell Performance and Inconsistency Evolution of Series and Parallel Lithium-Ion Battery Modules. <i>Energy Technology</i> , 2021 , 9, 2100072	3.5	0
85	A fuzzy extend state observer-based cascade decoupling controller of air supply for vehicular fuel cell system. <i>Energy Conversion and Management</i> , 2021 , 236, 114080	10.6	8
84	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> , 2021 , 141, 110790	16.2	23
83	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,	3.8	2
82	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	9.5	10
81	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. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 7380-7390	8.9	7

80	A review of modeling, acquisition, and application of lithium-ion battery impedance for onboard battery management. <i>ETransportation</i> , 2021 , 7, 100093	12.7	62
79	A fuzzy logic PI control with feedforward compensation for hydrogen pressure in vehicular fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 5714-5728	6.7	8
78	Lithium plating on the anode for lithium-ion batteries during long-term low temperature cycling. <i>Journal of Power Sources</i> , 2021 , 484, 229312	8.9	18
77	Advanced battery management strategies for a sustainable energy future: Multilayer design concepts and research trends. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 138, 110480	16.2	57
76	Low-Temperature Separating Lithium-Ion Battery Interfacial Polarization Based on Distribution of Relaxation Times (DRT) of Impedance. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 410-421	7.6	5
75	Research on Novel Flexible High-Saturation Nanocrystalline Cores for Wireless Charging Systems of Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8310-8320	8.9	8
74	Quantitative Analysis of Degradation Modes of Lithium-Ion Battery under Different Operating Conditions. <i>Energies</i> , 2021 , 14, 350	3.1	1
73	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 , 1-1	6.8	1
72	A cell-to-pack state estimation extension method based on a multilayer difference model for series-connected battery packs. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	0
71	Experimental and modeling analysis of thermal runaway for LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ /graphite pouch cell under adiabatic condition. <i>International Journal of Energy Research</i> , 2021 , 45, 10667-10681	4.5	1
70	A simplification of the time-domain equivalent circuit model for lithium-ion batteries based on low-frequency electrochemical impedance spectra. <i>Journal of Power Sources</i> , 2021 , 489, 229505	8.9	9
69	Online impedance spectrum measurement of fuel cells based on Morlet wavelet transform. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24339-24352	6.7	5
68	Cloud-based health-conscious energy management of hybrid battery systems in electric vehicles with deep reinforcement learning. <i>Applied Energy</i> , 2021 , 293, 116977	10.7	16
67	Internal polarization process revelation of electrochemical impedance spectroscopy of proton exchange membrane fuel cell by an impedance dimension model and distribution of relaxation times. <i>Chemical Engineering Journal</i> , 2021 , 418, 129358	14.7	11
66	Experimental investigations on the performance of mini-channel evaporator refrigeration system for thermal management of power batteries. <i>International Journal of Refrigeration</i> , 2021 , 130, 117-127	3.8	1
65	Investigating the critical characteristics of thermal runaway process for LiFePO ₄ /graphite batteries by a ceased segmented method. <i>IScience</i> , 2021 , 24, 103088	6.1	1
64	Quantitative analysis of internal polarization dynamics for polymer electrolyte membrane fuel cell by distribution of relaxation times of impedance. <i>Applied Energy</i> , 2021 , 303, 117640	10.7	5
63	Design of the LCC-SP Topology With a Current Doubler for 11-kW Wireless Charging System of Electric Vehicles. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 2128-2142	7.6	5

62	Fault Identification and Quantitative Diagnosis Method for Series-Connected Lithium-Ion Battery Packs Based on Capacity Estimation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
61	Model-based observers for internal states estimation and control of proton exchange membrane fuel cell system: A review. <i>Journal of Power Sources</i> , 2020 , 468, 228376	8.9	39
60	An online SOC and capacity estimation method for aged lithium-ion battery pack considering cell inconsistency. <i>Journal of Energy Storage</i> , 2020 , 29, 101250	7.8	41
59	A novel model-based internal state observer of a fuel cell system for electric vehicles using improved Kalman filter approach. <i>Applied Energy</i> , 2020 , 268, 115009	10.7	22
58	Research on 11kW Wireless Charging System for Electric Vehicle Based on LCC-SP Topology and Current Doubler 2020 ,		2
57	Incremental capacity analysis based adaptive capacity estimation for lithium-ion battery considering charging condition. <i>Applied Energy</i> , 2020 , 269, 115074	10.7	38
56	Building Safe Lithium-Ion Batteries for Electric Vehicles: A Review. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 1-42	29.3	182
55	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	8.9	64
54	A novel classification method of commercial lithium-ion battery cells based on fast and economic detection of self-discharge rate. <i>Journal of Power Sources</i> , 2020 , 478, 229039	8.9	6
53	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	7.8	65
52	A State of Health Estimation Method for Lithium-Ion Batteries Based on Voltage Relaxation Model. <i>Energies</i> , 2019 , 12, 1349	3.1	8
51	An improved electro-thermal battery model complemented by current dependent parameters for vehicular low temperature application. <i>Applied Energy</i> , 2019 , 248, 149-161	10.7	33
50	A Remaining Discharge Energy Prediction Method for Lithium-Ion Battery Pack Considering SOC and Parameter Inconsistency. <i>Energies</i> , 2019 , 12, 987	3.1	8
49	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	10.7	41
48	Lithium-ion battery temperature on-line estimation based on fast impedance calculation. <i>Journal of Energy Storage</i> , 2019 , 26, 100952	7.8	18
47	Practical On-Board Measurement of Lithium Ion Battery Impedance Based on Distributed Voltage and Current Sampling. <i>Energies</i> , 2018 , 11, 64	3.1	19
46	Impedance Characterization and Modeling of Lithium-Ion Batteries Considering the Internal Temperature Gradient. <i>Energies</i> , 2018 , 11, 220	3.1	50
45	State of charge estimation for lithium-ion pouch batteries based on stress measurement. <i>Energy</i> , 2017 , 129, 16-27	7.9	31

44	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	8.9	64
43	Parameter Identification of Battery Pack Considering Cell Inconsistency 2017 ,		1
42	A Method for Remaining Discharge Energy Prediction of Lithium-Ion Batteries Based on Terminal Voltage Prediction Model 2017 ,		2
41	Battery Internal Temperature Estimation for LiFePO ₄ Battery Based on Impedance Phase Shift under Operating Conditions. <i>Energies</i> , 2017 , 10, 60	3.1	22
40	Online Reliable Peak Charge/Discharge Power Estimation of Series-Connected Lithium-Ion Battery Packs. <i>Energies</i> , 2017 , 10, 390	3.1	14
39	An alternating current heating method for lithium-ion batteries from subzero temperatures. <i>International Journal of Energy Research</i> , 2016 , 40, 1869-1883	4.5	54
38	Nested three-layer optimisation method for magnetic coils used in 3kW vehicle-mounted wireless power transfer system. <i>IET Power Electronics</i> , 2016 , 9, 2562-2570	2.2	8
37	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	2.6	41
36	Study on Power Ratio Between the Front Motor and Rear Motor of Distributed Drive Electric Vehicle Based on Energy Efficiency Optimization 2016 ,		4
35	Design and Control of a 3 kW Wireless Power Transfer System for Electric Vehicles. <i>Energies</i> , 2016 , 9, 10	3.1	35
34	Adaptive model parameter identification for large capacity Li-ion batteries on separated time scales. <i>Applied Energy</i> , 2016 , 184, 119-131	10.7	72
33	State of Charge Estimation for Lithium-Ion Batteries Based on Stress Measurement 2016 ,		1
32	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	8.9	54
31	A novel modeling methodology of open circuit voltage hysteresis for LiFePO ₄ batteries based on an adaptive discrete Preisach model. <i>Applied Energy</i> , 2015 , 155, 91-109	10.7	40
30	ANFIS (adaptive neuro-fuzzy inference system) based online SOC (State of Charge) correction considering cell divergence for the EV (electric vehicle) traction batteries. <i>Energy</i> , 2015 , 80, 350-360	7.9	61
29	A new lithium-ion battery internal temperature on-line estimate method based on electrochemical impedance spectroscopy measurement. <i>Journal of Power Sources</i> , 2015 , 274, 990-1004	8.9	99
28	Preliminary Study on the Influence of Internal Temperature Gradient on EIS Measurement and Characterization for Li-Ion Batteries 2015 ,		1
27	A Lithium-Ion Battery Optimized Equivalent Circuit Model based on Electrochemical Impedance Spectroscopy 2015 ,		1

26	A Novel ZSB-PAM Power Regulation Method Applied in Wireless Charging System for Vehicular Power Batteries. <i>SAE International Journal of Alternative Powertrains</i> , 2015 , 4, 326-335	2	1
25	State Estimation of Lithium Ion Battery Based on Electrochemical Impedance Spectroscopy with On-Board Impedance Measurement System 2015 ,		11
24	A novel dual-inductor based charge equalizer for traction battery cells of electric vehicles. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 67, 627-638	5.1	15
23	A new electrochemical impedance spectroscopy model of a high-power lithium-ion battery. <i>RSC Advances</i> , 2014 , 4, 29988-29998	3.7	25
22	A Capacity Fading Model of Lithium-Ion Battery Cycle Life Based on the Kinetics of Side Reactions for Electric Vehicle Applications. <i>Electrochimica Acta</i> , 2014 , 133, 107-116	6.7	39
21	A new method of accelerated life testing based on the Grey System Theory for a model-based lithium-ion battery life evaluation system. <i>Journal of Power Sources</i> , 2014 , 267, 366-379	8.9	40
20	A Critical Review of Wireless Power Transfer via Strongly Coupled Magnetic Resonances. <i>Energies</i> , 2014 , 7, 4316-4341	3.1	121
19	Lithium-Ion Battery Internal Resistance Model Based on the Porous Electrode Theory 2014 ,		2
18	A Semi-Empirical Capacity Degradation Model of EV Li-Ion Batteries Based on Eyring Equation 2013 ,		10
17	A Simulation of Lithium-Ion Battery Ohmic Resistance Identification 2013 ,		1
16	Principle Elaboration and System Structure Validation of Wireless Power Transfer via Strongly Coupled Magnetic Resonances 2013 ,		6
15	Cell-BMS validation with a hardware-in-the-loop simulation of lithium-ion battery cells for electric vehicles. <i>International Journal of Electrical Power and Energy Systems</i> , 2013 , 52, 174-184	5.1	40
14	Recursive Parameter Identification of Lithium-Ion Battery for EVs Based on Equivalent Circuit Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 2813-2818	0.3	12
13	Online cell SOC estimation of Li-ion battery packs using a dual time-scale Kalman filtering for EV applications. <i>Applied Energy</i> , 2012 , 95, 227-237	10.7	233
12	A Hardware-in-the-Loop System for Development of Automotive Battery Management System. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 27-36	0.2	3
11	Analysis on the Influence of Measurement Precision of the Battery Management System on the State of Charge Estimation 2010 ,		1
10	Design and implementation of RLS identification algorithm based on FPGA 2009 ,		1
9	State and Parameter Estimation of a HEV Li-ion Battery Pack Using Adaptive Kalman Filter with a New SOC-OCV Concept 2009 ,		14

8	Estimation of Internal States of Power Lithium-ion Batteries Used on Electric Vehicles by Dual Extended Kalman Filter. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2009 , 45, 95	1.3	9
7	Estimate state of charge of power lithium-ion batteries used on fuel cell hybrid vehicle with method based on extended Kalman filtering. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2007 , 43, 92	1.3	14
6	Online SOC Estimation of High-power Lithium-ion Batteries Used on HEVs 2006 ,		33
5	Impedance Modeling and Aging Research of the Lithium-Ion Batteries Using the EIS Technique		2
4	The Aging Law of Low Temperature Charging of Lithium-Ion Battery		3
3	Parameter Identification for a Proton Exchange Membrane Fuel Cell Model		1
2	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
1	Study on the Constant Voltage, Current and Current Ramping Cold Start Modes of Proton Exchange Membrane Fuel Cell		2