

# Haifeng Dai

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/154063/haifeng-dai-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Online cell SOC estimation of Li-ion battery packs using a dual time-scale Kalman filtering for EV applications. <i>Applied Energy</i> , <b>2012</b> , 95, 227-237	10.7	233
114	Building Safe Lithium-Ion Batteries for Electric Vehicles: A Review. <i>Electrochemical Energy Reviews</i> , <b>2020</b> , 3, 1-42	29.3	182
113	A Critical Review of Wireless Power Transfer via Strongly Coupled Magnetic Resonances. <i>Energies</i> , <b>2014</b> , 7, 4316-4341	3.1	121
112	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
111	Adaptive model parameter identification for large capacity Li-ion batteries on separated time scales. <i>Applied Energy</i> , <b>2016</b> , 184, 119-131	10.7	72
110	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> , <b>2019</b> , 21, 618-631	7.8	65
109	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
108	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
107	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
106	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> , <b>2015</b> , 80, 350-360	7.9	61
105	Advanced battery management strategies for a sustainable energy future: Multilayer design concepts and research trends. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 138, 110480	16.2	57
104	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
103	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
102	Impedance Characterization and Modeling of Lithium-Ion Batteries Considering the Internal Temperature Gradient. <i>Energies</i> , <b>2018</b> , 11, 220	3.1	50
101	An online SOC and capacity estimation method for aged lithium-ion battery pack considering cell inconsistency. <i>Journal of Energy Storage</i> , <b>2020</b> , 29, 101250	7.8	41
100	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
99	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> , <b>2019</b> , 253, 113619	10.7	41

98	A novel modeling methodology of open circuit voltage hysteresis for LiFePO <sub>4</sub> batteries based on an adaptive discrete Preisach model. <i>Applied Energy</i> , <b>2015</b> , 155, 91-109	10.7	40
97	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> , <b>2014</b> , 267, 366-379	8.9	40
96	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> , <b>2013</b> , 52, 174-184	5.1	40
95	Model-based observers for internal states estimation and control of proton exchange membrane fuel cell system: A review. <i>Journal of Power Sources</i> , <b>2020</b> , 468, 228376	8.9	39
94	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> , <b>2014</b> , 133, 107-116	6.7	39
93	Incremental capacity analysis based adaptive capacity estimation for lithium-ion battery considering charging condition. <i>Applied Energy</i> , <b>2020</b> , 269, 115074	10.7	38
92	Design and Control of a 3 kW Wireless Power Transfer System for Electric Vehicles. <i>Energies</i> , <b>2016</b> , 9, 10	3.1	35
91	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
90	Online SOC Estimation of High-power Lithium-ion Batteries Used on HEVs <b>2006</b> ,		33
89	State of charge estimation for lithium-ion pouch batteries based on stress measurement. <i>Energy</i> , <b>2017</b> , 129, 16-27	7.9	31
88	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
87	Deep reinforcement learning-based energy management of hybrid battery systems in electric vehicles. <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102355	7.8	23
86	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
85	A novel model-based internal state observer of a fuel cell system for electric vehicles using improved Kalman filter approach. <i>Applied Energy</i> , <b>2020</b> , 268, 115009	10.7	22
84	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
83	Practical On-Board Measurement of Lithium Ion Battery Impedance Based on Distributed Voltage and Current Sampling. <i>Energies</i> , <b>2018</b> , 11, 64	3.1	19
82	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
81	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

80	Cloud-based health-conscious energy management of hybrid battery systems in electric vehicles with deep reinforcement learning. <i>Applied Energy</i> , <b>2021</b> , 293, 116977	10.7	16
79	A novel dual-inductor based charge equalizer for traction battery cells of electric vehicles. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 67, 627-638	5.1	15
78	Online Reliable Peak Charge/Discharge Power Estimation of Series-Connected Lithium-Ion Battery Packs. <i>Energies</i> , <b>2017</b> , 10, 390	3.1	14
77	State and Parameter Estimation of a HEV Li-ion Battery Pack Using Adaptive Kalman Filter with a New SOC-OCV Concept <b>2009</b> ,		14
76	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> , <b>2007</b> , 43, 92	1.3	14
75	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
74	Recursive Parameter Identification of Lithium-Ion Battery for EVs Based on Equivalent Circuit Model. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 2813-2818	0.3	12
73	State Estimation of Lithium Ion Battery Based on Electrochemical Impedance Spectroscopy with On-Board Impedance Measurement System <b>2015</b> ,		11
72	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> , <b>2021</b> , 418, 129358	14.7	11
71	Remaining discharge energy estimation for lithium-ion batteries based on future load prediction considering temperature and ageing effects. <i>Energy</i> , <b>2022</b> , 238, 121754	7.9	11
70	A Semi-Empirical Capacity Degradation Model of EV Li-Ion Batteries Based on Eyring Equation <b>2013</b> ,		10
69	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> , <b>2022</b> , 183, 122184	4.9	10
68	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
67	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> , <b>2009</b> , 45, 95	1.3	9
66	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> , <b>2021</b> , 489, 229505	8.9	9
65	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
64	A Remaining Discharge Energy Prediction Method for Lithium-Ion Battery Pack Considering SOC and Parameter Inconsistency. <i>Energies</i> , <b>2019</b> , 12, 987	3.1	8
63	Nested three-layer optimisation method for magnetic coils used in 3kW vehicle-mounted wireless power transfer system. <i>IET Power Electronics</i> , <b>2016</b> , 9, 2562-2570	2.2	8

62	Online quantitative diagnosis of internal short circuit for lithium-ion batteries using incremental capacity method. <i>Energy</i> , <b>2022</b> , 243, 123082	7.9	8
61	A fuzzy extend state observer-based cascade decoupling controller of air supply for vehicular fuel cell system. <i>Energy Conversion and Management</i> , <b>2021</b> , 236, 114080	10.6	8
60	A fuzzy logic PI control with feedforward compensation for hydrogen pressure in vehicular fuel cell system. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 5714-5728	6.7	8
59	Research on Novel Flexible High-Saturation Nanocrystalline Cores for Wireless Charging Systems of Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8310-8320	8.9	8
58	Understanding dynamic behavior of proton exchange membrane fuel cell in the view of internal dynamics based on impedance. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134035	14.7	7
57	Research progress of heat transfer inside proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2021</b> , 492, 229613	8.9	7
56	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> , <b>2021</b> , 68, 7380-7390	8.9	7
55	Principle Elaboration and System Structure Validation of Wireless Power Transfer via Strongly Coupled Magnetic Resonances <b>2013</b> ,		6
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> , <b>2020</b> , 478, 229039	8.9	6
53	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> , <b>2022</b> , 1-1	8.9	6
52	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
51	Online impedance spectrum measurement of fuel cells based on Morlet wavelet transform. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 24339-24352	6.7	5
50	Quantitative analysis of internal polarization dynamics for polymer electrolyte membrane fuel cell by distribution of relaxation times of impedance. <i>Applied Energy</i> , <b>2021</b> , 303, 117640	10.7	5
49	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> , <b>2021</b> , 7, 2128-2142	7.6	5
48	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
47	Numerical analysis of static and dynamic heat transfer behaviors inside proton exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2021</b> , 488, 229419	8.9	4
46	Study on Power Ratio Between the Front Motor and Rear Motor of Distributed Drive Electric Vehicle Based on Energy Efficiency Optimization <b>2016</b> ,		4
45	Fault Identification and Quantitative Diagnosis Method for Series-Connected Lithium-Ion Battery Packs Based on Capacity Estimation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	4

44	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
43	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> , <b>2021</b> , 1-1	5.6	3
42	The Aging Law of Low Temperature Charging of Lithium-Ion Battery		3
41	A Hardware-in-the-Loop System for Development of Automotive Battery Management System. <i>Lecture Notes in Electrical Engineering</i> , <b>2012</b> , 27-36	0.2	3
40	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
39	Data-driven capacity estimation of commercial lithium-ion batteries from voltage relaxation.. <i>Nature Communications</i> , <b>2022</b> , 13, 2261	17.4	3
38	A Method for Remaining Discharge Energy Prediction of Lithium-Ion Batteries Based on Terminal Voltage Prediction Model <b>2017</b> ,		2
37	Lithium-Ion Battery Internal Resistance Model Based on the Porous Electrode Theory <b>2014</b> ,		2
36	Research on 11kW Wireless Charging System for Electric Vehicle Based on LCC-SP Topology and Current Doubler <b>2020</b> ,		2
35	Impedance Modeling and Aging Research of the Lithium-Ion Batteries Using the EIS Technique		2
34	Study on the Constant Voltage, Current and Current Ramping Cold Start Modes of Proton Exchange Membrane Fuel Cell		2
33	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> , <b>2021</b> , 9,	3.8	2
32	Fast Calculation of Broadband Battery Impedance Spectra based on S Transform of Step Disturbance and Response. <i>IEEE Transactions on Transportation Electrification</i> , <b>2022</b> , 1-1	7.6	2
31	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
30	Parameter Identification of Battery Pack Considering Cell Inconsistency <b>2017</b> ,		1
29	A Simulation of Lithium-Ion Battery Ohmic Resistance Identification <b>2013</b> ,		1
28	Preliminary Study on the Influence of Internal Temperature Gradient on EIS Measurement and Characterization for Li-Ion Batteries <b>2015</b> ,		1
27	A Lithium-Ion Battery Optimized Equivalent Circuit Model based on Electrochemical Impedance Spectroscopy <b>2015</b> ,		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> , <b>2015</b> , 4, 326-335	2	1
25	Analysis on the Influence of Measurement Precision of the Battery Management System on the State of Charge Estimation <b>2010</b> ,		1
24	Design and implementation of RLS identification algorithm based on FPGA <b>2009</b> ,		1
23	A Comparative Study of Equivalent Circuit Models for Electro-Chemical Impedance Spectroscopy Analysis of Proton Exchange Membrane Fuel Cells. <i>Energies</i> , <b>2022</b> , 15, 386	3.1	1
22	Voltammetric and galvanostatic methods for measuring hydrogen crossover in fuel cell.. <i>IScience</i> , <b>2022</b> , 25, 103576	6.1	1
21	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> , <b>2021</b> , 44, 103487	7.8	1
20	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> , <b>2021</b> , 133667	14.7	1
19	Investigation of the thermal responses under gas channel and land inside proton exchange membrane fuel cell with assembly pressure. <i>Applied Energy</i> , <b>2022</b> , 308, 118377	10.7	1
18	Parameter Identification for a Proton Exchange Membrane Fuel Cell Model		1
17	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> , <b>2021</b> , 46, 38795-38808	6.7	1
16	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> , <b>2021</b> , 45, 14692-14709	4.5	1
15	State of Charge Estimation for Lithium-Ion Batteries Based on Stress Measurement <b>2016</b> ,		1
14	Quantitative Analysis of Degradation Modes of Lithium-Ion Battery under Different Operating Conditions. <i>Energies</i> , <b>2021</b> , 14, 350	3.1	1
13	Charging Strategy Optimization at Low Temperatures for Li-ion Batteries Based on Multi-Factor Coupling Aging Model. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	1
12	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
11	Experimental investigations on the performance of mini-channel evaporator refrigeration system for thermal management of power batteries. <i>International Journal of Refrigeration</i> , <b>2021</b> , 130, 117-127	3.8	1
10	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
9	Intelligent health states recognition of fuel cell by cell voltage consistency under typical operating parameters. <i>Applied Energy</i> , <b>2022</b> , 305, 117735	10.7	1



8	Accurate state of charge prediction for real-world battery systems using a novel dual-dropout-based neural network. <i>Energy</i> , <b>2022</b> , 250, 123853	7.9	1
7	Toward safe carbon-neutral transportation: Battery internal short circuit diagnosis based on cloud data for electric vehicles. <i>Applied Energy</i> , <b>2022</b> , 317, 119168	10.7	1
6	Battery Capacity Estimation Based on Incremental Capacity Analysis Considering Charging Current Rate. <i>World Electric Vehicle Journal</i> , <b>2021</b> , 12, 224	2.5	0
5	Investigation on Cell Performance and Inconsistency Evolution of Series and Parallel Lithium-Ion Battery Modules. <i>Energy Technology</i> , <b>2021</b> , 9, 210072	3.5	0
4	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> , <b>2021</b> , 1-1	7.6	0
3	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> , <b>2022</b> , 253, 124202	7.9	0
2	Advanced Online Broadband Impedance Spectrum Acquisition of Fuel Cells by S-transform. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
1	A Self-Tuning LCC/SP System for Electric Vehicle Wireless Charging against Large Self- and Mutual Inductance Variations. <i>Energies</i> , <b>2022</b> , 15, 3980	3.1	