

Zhongbao Wei

List of Publications by Citations

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79
papers

3,502
citations

33
h-index

58
g-index

98
ext. papers

4,854
ext. citations

7.5
avg, IF

6.43
L-index

#	Paper	IF	Citations
79	Thermal issues about Li-ion batteries and recent progress in battery thermal management systems: A review. <i>Energy Conversion and Management</i> , 2017 , 150, 304-330	10.6	433
78	Thermal investigation of lithium-ion battery module with different cell arrangement structures and forced air-cooling strategies. <i>Applied Energy</i> , 2014 , 134, 229-238	10.7	321
77	A multi-timescale estimator for battery state of charge and capacity dual estimation based on an online identified model. <i>Applied Energy</i> , 2017 , 204, 1264-1274	10.7	175
76	Modified Gaussian Process Regression Models for Cyclic Capacity Prediction of Lithium-Ion Batteries. <i>IEEE Transactions on Transportation Electrification</i> , 2019 , 5, 1225-1236	7.6	127
75	Online state of charge and model parameter co-estimation based on a novel multi-timescale estimator for vanadium redox flow battery. <i>Applied Energy</i> , 2016 , 172, 169-179	10.7	127
74	Adaptive estimation of state of charge and capacity with online identified battery model for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2016 , 332, 389-398	8.9	125
73	Enhanced online model identification and state of charge estimation for lithium-ion battery with a FBCRLS based observer. <i>Applied Energy</i> , 2016 , 181, 332-341	10.7	119
72	Online Model Identification and State-of-Charge Estimate for Lithium-Ion Battery With a Recursive Total Least Squares-Based Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1336-1346	8.9	119
71	Electrothermal dynamics-conscious lithium-ion battery cell-level charging management via state-monitored predictive control. <i>Energy</i> , 2017 , 141, 250-259	7.9	108
70	Electrochemical Estimation and Control for Lithium-Ion Battery Health-Aware Fast Charging. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6635-6645	8.9	102
69	Extended Kalman filter method for state of charge estimation of vanadium redox flow battery using thermal-dependent electrical model. <i>Journal of Power Sources</i> , 2014 , 262, 50-61	8.9	77
68	Noise-Immune Model Identification and State-of-Charge Estimation for Lithium-Ion Battery Using Bilinear Parameterization. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 312-323	8.9	73
67	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 3751-3761	11.9	73
66	Real-time monitoring of capacity loss for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2018 , 390, 261-269	8.9	72
65	Battery-Involved Energy Management for Hybrid Electric Bus Based on Expert-Assistance Deep Deterministic Policy Gradient Algorithm. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12786-12796	6.8	68
64	Online Estimation of Power Capacity With Noise Effect Attenuation for Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5724-5735	8.9	68
63	Future smart battery and management: Advanced sensing from external to embedded multi-dimensional measurement. <i>Journal of Power Sources</i> , 2021 , 489, 229462	8.9	67

62	State of Charge Estimation of Vanadium Redox Flow Battery Based on Sliding Mode Observer and Dynamic Model Including Capacity Fading Factor. <i>IEEE Transactions on Sustainable Energy</i> , 2017 , 8, 1658-1667	8.2	59
61	An adaptive model for vanadium redox flow battery and its application for online peak power estimation. <i>Journal of Power Sources</i> , 2017 , 344, 195-207	8.9	57
60	A noise-tolerant model parameterization method for lithium-ion battery management system. <i>Applied Energy</i> , 2020 , 268, 114932	10.7	57
59	Dynamic electro-thermal modeling of all-vanadium redox flow battery with forced cooling strategies. <i>Applied Energy</i> , 2014 , 135, 1-10	10.7	51
58	Dynamic thermal-hydraulic modeling and stack flow pattern analysis for all-vanadium redox flow battery. <i>Journal of Power Sources</i> , 2014 , 260, 89-99	8.9	50
57	State-of-Health Estimation of Lithium-Ion Batteries Using Incremental Capacity Analysis Based on Voltage-Capacity Model. <i>IEEE Transactions on Transportation Electrification</i> , 2020 , 6, 417-426	7.6	49
56	Power capability prediction for lithium-ion batteries using economic nonlinear model predictive control. <i>Journal of Power Sources</i> , 2018 , 396, 580-589	8.9	43
55	Comparative study of computational intelligence approaches for NOx reduction of coal-fired boiler. <i>Energy</i> , 2013 , 55, 683-692	7.9	43
54	Comparative study of methods for integrated model identification and state of charge estimation of lithium-ion battery. <i>Journal of Power Sources</i> , 2018 , 402, 189-197	8.9	40
53	Mass load prediction for lithium-ion battery electrode clean production: A machine learning approach. <i>Journal of Cleaner Production</i> , 2021 , 289, 125159	10.3	38
52	Deep Deterministic Policy Gradient-DRL Enabled Multiphysics-Constrained Fast Charging of Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	38
51	A Novel Model-Based Voltage Construction Method for Robust State-of-Health Estimation of Lithium-Ion Batteries. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 12173-12184	8.9	38
50	Data-Driven Battery Health Prognosis Using Adaptive Brownian Motion Model. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 4736-4746	11.9	35
49	Constrained Ensemble Kalman Filter for Distributed Electrochemical State Estimation of Lithium-Ion Batteries. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 240-250	11.9	34
48	A Two-Step Parameter Optimization Method for Low-Order Model-Based State-of-Charge Estimation. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 7, 399-409	7.6	33
47	Load Current and State-of-Charge Coestimation for Current Sensor-Free Lithium-Ion Battery. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10970-10975	7.2	33
46	Thermoelectric generation for waste heat recovery: Application of a system level design optimization approach via Taguchi method. <i>Energy Conversion and Management</i> , 2018 , 172, 507-516	10.6	29
45	Disturbance-Immune and Aging-Robust Internal Short Circuit Diagnostic for Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	29

44	Geometry optimization of thermoelectric modules: Simulation and experimental study. <i>Energy Conversion and Management</i> , 2019 , 195, 236-243	10.6	28
43	Online monitoring of state of charge and capacity loss for vanadium redox flow battery based on autoregressive exogenous modeling. <i>Journal of Power Sources</i> , 2018 , 402, 252-262	8.9	28
42	Hierarchical degradation processes in lithium-ion batteries during ageing. <i>Electrochimica Acta</i> , 2017 , 256, 52-62	6.7	23
41	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
40	Online State of Charge and State of Health Estimation for a Lithium-Ion Battery Based on a Data Model Fusion Method. <i>Energies</i> , 2018 , 11, 1810	3.1	23
39	Signal-Disturbance Interfacing Elimination for Unbiased Model Parameter Identification of Lithium-Ion Battery. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 5887-5897	11.9	23
38	Towards Long Lifetime Battery: AI-Based Manufacturing and Management. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022 , 1-27	7	23
37	Adaptive Ensemble-Based Electrochemical-Thermal-Degradation State Estimation of Lithium-Ion Batteries. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	21
36	Modelling and control of vanadium redox flow battery for profile based charging applications. <i>Energy</i> , 2017 , 141, 1479-1488	7.9	20
35	Optimization of Operating Parameters for Low NOx Emission in High-Temperature Air Combustion. <i>Energy & Fuels</i> , 2012 , 26, 2821-2829	4.1	20
34	State of Health Estimation of Lithium-ion Battery Based on Constant-Voltage Charging Reconstruction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	17
33	Comparative study of curve determination methods for incremental capacity analysis and state of health estimation of lithium-ion battery. <i>Journal of Energy Storage</i> , 2020 , 29, 101400	7.8	16
32	An Enhanced Equivalent Circuit Model of Vanadium Redox Flow Battery Energy Storage Systems Considering Thermal Effects. <i>IEEE Access</i> , 2019 , 7, 162297-162308	3.5	16
31	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
30	Metabonomics study of the effects of traditional Chinese medicine formula Ermiaowan on hyperuricemic rats. <i>Journal of Separation Science</i> , 2018 , 41, 560-570	3.4	15
29	State-of-Health Estimation of Lithium-Ion Batteries by Fusing an Open Circuit Voltage Model and Incremental Capacity Analysis. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	14
28	Accurate calculation of winding resistance and influence of interleaving to mitigate ac effect in a medium-frequency high-power transformer 2017 ,		13
27	A Simulation Study on a Thermoelectric Generator for Waste Heat Recovery from a Marine Engine. <i>Journal of Electronic Materials</i> , 2017 , 46, 2908-2914	1.9	12

26	Two-layer online state-of-charge estimation of lithium-ion battery with current sensor bias correction. <i>International Journal of Energy Research</i> , 2019 , 43, 3837-3852	4.5	12
25	A Survey of Powertrain Technologies for Energy-Efficient Heavy-Duty Machinery. <i>Proceedings of the IEEE</i> , 2021 , 109, 279-308	14.3	11
24	Battery Optimal Sizing under a Synergistic Framework with DQN Based Power Managements for the Fuel Cell Hybrid Powertrain. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	10
23	Physics-informed neural networks for electrode-level state estimation in lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 506, 230034	8.9	10
22	Multi-variable optimization methodology for medium-frequency high-power transformer design employing steepest descent method 2018 ,		9
21	Embedded Distributed Temperature Sensing Enabled Multi-State Joint Observation of Smart Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	9
20	Multi-Stage State of Health Estimation of Lithium-ion Battery with High Tolerance to Heavily-Partial Charging. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	8
19	Electrochemical Model-Based Fast Charging: Physical Constraint-Triggered PI Control. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	8
18	Accurate calculation of leakage inductance for balanced and fractional-interleaved winding in medium-frequency high-power transformer 2017 ,		7
17	Hierarchical soft measurement of load current and state of charge for future smart lithium-ion batteries. <i>Applied Energy</i> , 2022 , 307, 118246	10.7	7
16	Thermal modeling and transient behavior analysis of a medium-frequency high-power transformer 2017 ,		6
15	State of charge estimation of an all-vanadium redox flow battery based on a thermal-dependent model 2013 ,		6
14	Charging Optimization for Li-ion Battery in Electric Vehicles: A Review. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	6
13	A Coupled, Semi-Numerical Model for Thermal Analysis of Medium Frequency Transformer. <i>Energies</i> , 2019 , 12, 328	3.1	4
12	The optimization of state of charge and state of health estimation for lithium-ions battery using combined deep learning and Kalman filter methods. <i>International Journal of Energy Research</i> , 2021 , 45, 11206-11230	4.5	4
11	An Online Adaptive Internal Short Circuit Detection Method of Lithium-Ion Battery. <i>Automotive Innovation</i> , 2021 , 4, 93-102	1.7	4
10	Online State of Charge and Capacity Dual Estimation with a Multi-timescale Estimator for Lithium-ion Battery. <i>Energy Procedia</i> , 2017 , 105, 2953-2958	2.3	3
9	Hierarchical Sizing and Power Distribution Strategy for Hybrid Energy Storage System. <i>Automotive Innovation</i> ,1	1.7	3

8	. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	3
7	Variable Voltage Control of a Hybrid Energy Storage System for Firm Frequency Response in the UK. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
6	Residual Statistics-Based Current Sensor Fault Diagnosis for Smart Battery Management. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	2
5	Size optimization and power allocation of a hybrid energy storage system for frequency service. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 141, 108165	5.1	2
4	Effect of inclined angle of fuel jet on NOx emission in high temperature air combustion 2012 ,		1
3	Calculation and Experimental Validation on Leakage Inductance of a Medium Frequency Transformer 2018 ,		1
2	Experimental Verification on Thermal Modeling of Medium Frequency Transformers 2018 ,		1
1	Dynamic modeling of long-term operations of vanadium/air redox flow battery with different membranes. <i>Journal of Energy Storage</i> , 2022 , 50, 104171	7.8	1