

Qi Zhang

List of Publications by Year in descending order

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33
papers

833
citations

516561

16
h-index

552653

26
g-index

33
all docs

33
docs citations

33
times ranked

698
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel fractional variable-order equivalent circuit model and parameter identification of electric vehicle Li-ion batteries. <i>ISA Transactions</i> , 2020, 97, 448-457.	3.1	83
2	Remaining useful life prediction of lithium-ion battery based on extended Kalman particle filter. <i>International Journal of Energy Research</i> , 2020, 44, 1724-1734.	2.2	78
3	Co-estimation of model parameters and state-of-charge for lithium-ion batteries with recursive restricted total least squares and unscented Kalman filter. <i>Applied Energy</i> , 2020, 277, 115494.	5.1	76
4	A Sine-Wave Heating Circuit for Automotive Battery Self-Heating at Subzero Temperatures. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 3355-3365.	7.2	65
5	A Cell-to-Cell Equalizer Based on Three-Resonant-State Switched-Capacitor Converters for Series-Connected Battery Strings. <i>Energies</i> , 2017, 10, 206.	1.6	57
6	Multicell-to-Multicell Equalizers Based on Matrix and Half-Bridge LC Converters for Series-Connected Battery Strings. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 1755-1766.	3.7	52
7	Robust current control-based generalized predictive control with sliding mode disturbance compensation for PMSM drives. <i>ISA Transactions</i> , 2017, 71, 542-552.	3.1	51
8	An Optimized Mesh-Structured Switched-Capacitor Equalizer for Lithium-Ion Battery Strings. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 252-261.	5.3	46
9	Modeling and analysis of high-frequency alternating-current heating for lithium-ion batteries under low-temperature operations. <i>Journal of Power Sources</i> , 2020, 450, 227435.	4.0	44
10	Fractional calculus based modeling of open circuit voltage of lithium-ion batteries for electric vehicles. <i>Journal of Energy Storage</i> , 2020, 27, 100945.	3.9	36
11	Fractional-order modeling of lithium-ion batteries using additive noise assisted modeling and correlative information criterion. <i>Journal of Advanced Research</i> , 2020, 25, 49-56.	4.4	33
12	An Adaptive Battery Capacity Estimation Method Suitable for Random Charging Voltage Range in Electric Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 9121-9132.	5.2	24
13	Variable fractional order - A comprehensive evaluation indicator of lithium-ion batteries. <i>Journal of Power Sources</i> , 2020, 448, 227411.	4.0	23
14	A Fractional-Order Kinetic Battery Model of Lithium-Ion Batteries Considering a Nonlinear Capacity. <i>Electronics (Switzerland)</i> , 2019, 8, 394.	1.8	20
15	A Neural Network Fuzzy Energy Management Strategy for Hybrid Electric Vehicles Based on Driving Cycle Recognition. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 696.	1.3	19
16	Predictive Speed-Control Algorithm Based on a Novel Extended-State Observer for PMSM Drives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2575.	1.3	16
17	Robust Current Predictive Control-Based Equivalent Input Disturbance Approach for PMSM Drive. <i>Electronics (Switzerland)</i> , 2019, 8, 1034.	1.8	16
18	Optimal Planning of Electric Vehicle Charging Stations Considering User Satisfaction and Charging Convenience. <i>Energies</i> , 2022, 15, 5027.	1.6	16

#	ARTICLE	IF	CITATIONS
19	Parameter Matching Optimization of a Powertrain System of Hybrid Electric Vehicles Based on Multi-Objective Optimization. <i>Electronics (Switzerland)</i> , 2019, 8, 875.	1.8	14
20	Relevance between fractional-order hybrid model and unified equivalent circuit model of electric vehicle power battery. <i>Science China Information Sciences</i> , 2018, 61, 1.	2.7	12
21	An improved Peukert battery model of nonlinear capacity considering temperature effect. <i>IFAC-PapersOnLine</i> , 2018, 51, 665-669.	0.5	11
22	Efficiency Optimization Strategy of Permanent Magnet Synchronous Motor for Electric Vehicles Based on Energy Balance. <i>Symmetry</i> , 2022, 14, 164.	1.1	10
23	Torque Coordination Control of Hybrid Electric Vehicles Based on Hybrid Dynamical System Theory. <i>Electronics (Switzerland)</i> , 2019, 8, 712.	1.8	7
24	Co-simulation of energy management strategy for hybrid electric vehicle in AVL InMotion. , 2017, , .		6
25	Variable-order fractional equivalent circuit model for lithium-ion batteries. , 2016, , .		5
26	A direct multi-cells-to-multi-cells equalizer based on LC matrix converter for series-connected battery strings. , 2018, , .		4
27	A battery equalizer with zero-current switching and zero-voltage gap among cells based on three-resonant-state LC converters. , 2017, , .		3
28	DSP Processor-in-the-Loop Tests Based on Automatic Code Generation. <i>Inventions</i> , 2022, 7, 12.	1.3	2
29	A fractional-order KiBaM of lithium-ion batteries with capacity nonlinearity. , 2017, , .		1
30	A Zero-Current-Switching Heater Based on Four-Resonant-State LC Converter for Low-Temperature Lithium-Ion Batteries of Electric Vehicles. , 2019, , .		1
31	Advances in Electrochemical Energy Storage Systems. <i>Electrochem</i> , 2022, 3, 225-228.	1.7	1
32	Battery Energy Consumption Analysis of Automated Vehicles Based on MPC Trajectory Tracking Control. <i>Electrochem</i> , 2022, 3, 337-346.	1.7	1
33	Inconsistency Effect of Internal Resistance on Performance of Lithium-ion Battery Strings. , 2019, , .		0