

Daohan Wang

List of Publications by Year in descending order

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68
all docs

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docs citations

68
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	An Automatic Equalizer Based on Forward-Flyback Converter for Series-Connected Battery Strings. IEEE Transactions on Industrial Electronics, 2017, 64, 5380-5391.	7.9	147
2	A Switched-Coupling-Capacitor Equalizer for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2017, 32, 7694-7706.	7.9	112
3	Towards Long Lifetime Battery: AI-Based Manufacturing and Management. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1139-1165.	13.1	111
4	Analysis and Optimization of Star-Structured Switched-Capacitor Equalizers for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2018, 33, 9631-9646.	7.9	94
5	A novel fractional variable-order equivalent circuit model and parameter identification of electric vehicle Li-ion batteries. ISA Transactions, 2020, 97, 448-457.	5.7	83
6	A Delta-Structured Switched-Capacitor Equalizer for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2018, , 1-1.	7.9	74
7	A Compact Resonant Switched-Capacitor Heater for Lithium-Ion Battery Self-Heating at Low Temperatures. IEEE Transactions on Power Electronics, 2020, 35, 7134-7144.	7.9	68
8	An Automotive Onboard AC Heater Without External Power Supplies for Lithium-Ion Batteries at Low Temperatures. IEEE Transactions on Power Electronics, 2018, 33, 7759-7769.	7.9	60
9	Design, Optimization, and Prototyping of Segmental-Type Linear Switched-Reluctance Motor With a Toroidally Wound Mover for Vertical Propulsion Application. IEEE Transactions on Industrial Electronics, 2018, 65, 1865-1874.	7.9	57
10	A Modularization Method for Battery Equalizers Using Multiwinding Transformers. IEEE Transactions on Vehicular Technology, 2017, 66, 8710-8722.	6.3	55
11	An Optimized Any-Cell-to-Any-Cell Equalizer Based on Coupled Half-Bridge Converters for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2019, 34, 8831-8841.	7.9	54
12	Multicell-to-Multicell Equalizers Based on Matrix and Half-Bridge LC Converters for Series-Connected Battery Strings. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1755-1766.	5.4	52
13	An Interleaved Equalization Architecture with Self-Learning Fuzzy Logic Control for Series-Connected Battery Strings. IEEE Transactions on Vehicular Technology, 2017, 66, 10923-10934.	6.3	46
14	An Optimized Mesh-Structured Switched-Capacitor Equalizer for Lithium-Ion Battery Strings. IEEE Transactions on Transportation Electrification, 2019, 5, 252-261.	7.8	46
15	A Global Modular Equalizer Based on Forward Conversion for Series-Connected Battery Strings. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1456-1469.	5.4	39
16	Fractional-order modeling of lithium-ion batteries using additive noise assisted modeling and correlative information criterion. Journal of Advanced Research, 2020, 25, 49-56.	9.5	33
17	Unitized Design Methodology of Linear Switched Reluctance Motor With Segmental Secondary for Long Rail Propulsion Application. IEEE Transactions on Industrial Electronics, 2018, 65, 9884-9894.	7.9	28
18	Design and Comparison of a High Force Density Dual Side Linear Switched Reluctance Motor for Long rail propulsion Application. IEEE Transactions on Magnetics, 2017, , 1-1.	2.1	27

#	ARTICLE	IF	CITATIONS
19	A New Segmented Rotor to Mitigate Torque Ripple and Electromagnetic Vibration of Interior Permanent Magnet Machine. IEEE Transactions on Industrial Electronics, 2022, 69, 1367-1377.	7.9	27
20	A New Hybrid Excitation Permanent Magnet Machine With an Independent AC Excitation Port. IEEE Transactions on Industrial Electronics, 2019, 66, 5872-5882.	7.9	24
21	An Adaptive Battery Capacity Estimation Method Suitable for Random Charging Voltage Range in Electric Vehicles. IEEE Transactions on Industrial Electronics, 2022, 69, 9121-9132.	7.9	24
22	Analysis on a Novel Flux Adjustable Permanent Magnet Coupler With a Double-Layer Permanent Magnet Rotor. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	20
23	A Fractional-Order Kinetic Battery Model of Lithium-Ion Batteries Considering a Nonlinear Capacity. Electronics (Switzerland), 2019, 8, 394.	3.1	20
24	Parameters Identification and Sensitive Characteristics Analysis for Lithium-Ion Batteries of Electric Vehicles. Energies, 2018, 11, 19.	3.1	19
25	Magnetic Field Prediction for Line-Start Permanent Magnet Synchronous Motor via Incorporating Geometry Approximation and Finite Difference Method Into Subdomain Model. IEEE Transactions on Industrial Electronics, 2023, 70, 2843-2854.	7.9	19
26	A switched-coupling-capacitor equalizer for series-connected battery strings. , 2017, , .		18
27	Performance Characteristics and Preliminary Analysis of Low Cost Tubular Linear Switch Reluctance Generator for Direct Drive WEC. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	17
28	Design and Performance Evaluation of a Tubular Linear Switched Reluctance Generator with Low Cost and High Thrust Density. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	16
29	An automatic battery equalizer based on forward and flyback conversion for series-connected battery strings. , 2017, , .		15
30	Reducing Cogging Torque in Surface-mounted Permanent Magnet Motors by Teeth Notching. , 2007, , .		14
31	Performance Analysis and Design Optimization of an Annular Winding Bilateral Linear Switch Reluctance Machine for Low Cost Linear Applications. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	14
32	State-of-Health Estimation With Anomalous Aging Indicator Detection of Lithium-Ion Batteries Using Regression Generative Adversarial Network. IEEE Transactions on Industrial Electronics, 2023, 70, 2685-2695.	7.9	13
33	Thermal Identification, Model, and Experimental Validation of a Toroidally Wound Mover Linear-Switched Reluctance Machine. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	12
34	Relevance between fractional-order hybrid model and unified equivalent circuit model of electric vehicle power battery. Science China Information Sciences, 2018, 61, 1.	4.3	12
35	Comparison and Experimental Verification of Different Approaches to Suppress Torque Ripple and Vibrations of Interior Permanent Magnet Synchronous Motor for EV. IEEE Transactions on Industrial Electronics, 2023, 70, 2209-2220.	7.9	11
36	A delta-structured switched-capacitor equalizer for series-connected battery strings. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
37	Comparative Analysis of Different Topologies of Linear Switched Reluctance Motor With Segmented Secondary for Vertical Actuation Systems. IEEE Transactions on Energy Conversion, 2021, 36, 2634-2645.	5.2	8
38	High-Efficiency Bidirectional Three-Level Series-Resonant Converter With Buck-Boost Capacity for High-Output Voltage Applications. IEEE Transactions on Transportation Electrification, 2021, 7, 969-982.	7.8	8
39	A pack-to-cell-to-pack battery equalizer with soft-switching based on buck-boost and bidirectional LC resonant converters. , 2016, , .		7
40	Co-simulation of energy management strategy for hybrid electric vehicle in AVL InMotion. , 2017, , .		6
41	Performance Assessment and Comparative Study of a Permanent Magnet Machine With Axial Flux Regulator. IEEE Transactions on Energy Conversion, 2019, 34, 1522-1531.	5.2	6
42	Permanent Magnet Synchronous Machines With Nonuniformly Distributed Teeth. IEEE Transactions on Industrial Electronics, 2022, 69, 8705-8715.	7.9	6
43	A star-structured switched-capacitor equalizer for series-connected battery strings. , 2017, , .		5
44	A direct multi-cells-to-multi-cells equalizer based on LC matrix converter for series-connected battery strings. , 2018, , .		4
45	A Multi-Cell-to-Multi-Cell Equalizer for Series-Connected Batteries Based on Flyback Conversion. , 2019, , .		4
46	Design Consideration of AC Hybrid-Excitation Permanent-Magnet Machine With Axial Stator Using Simplified Reluctance Network. IEEE Transactions on Industrial Electronics, 2022, 69, 12447-12457.	7.9	4
47	Analysis and design of a new single-phase power source. , 2005, , .		3
48	Aging performances and cycle-life predictions of Li-ion battery. , 2016, , .		3
49	A battery equalizer with zero-current switching and zero-voltage gap among cells based on three-resonant-state LC converters. , 2017, , .		3
50	Analysis of cogging torque and flux weakening capability of a novel multi-stator hybrid excitation permanent magnet synchronous motor. , 2017, , .		3
51	Fast Equalization for Lithium Ion Battery Packs Based on Reconfigurable Battery Structure. , 2020, , .		3
52	Modularized charge equalizer using multiwinding transformers for Lithium-ion battery system. , 2014, , .		2
53	A fast-speed heater with internal and external heating for lithium-ion batteries at low temperatures. , 2018, , .		2
54	Suppression of Torque Ripple of Synchronous Reluctance Motor by Optimizing Air-gap Magnetic Field. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
55	Study on the Effect of Different AC Excitations on the Internal Heating for Low-Temperature Batteries. , 2019, , .		2
56	Study on the Effect of High Temperature and High-Current Rate on Fast Charging of Lithium-ion Batteries. , 2021, , .		2
57	A fractional-order KiBaM of lithium-ion batteries with capacity nonlinearity. , 2017, , .		1
58	Multi-fault online detection method for series-connected battery packs. , 2017, , .		1
59	A Zero-Current-Switching Heater Based on Four-Resonant-State LC Converter for Low-Temperature Lithium-Ion Batteries of Electric Vehicles. , 2019, , .		1
60	A Fast Capacity Estimation Approach for Retired Lithium-ion Batteries. , 2021, , .		1
61	A New On-board Charging-Driving Integrated Topology for V2G Technology. World Electric Vehicle Journal, 2021, 12, 231.	3.0	1
62	A state-of-charge uniformity control method for energy storage batteries based on distributed cooperative control. , 2021, , .		1
63	Consistent Control for SOH of Energy Storage Batteries Based on Game Theory. , 2021, , .		1
64	An iterative identification method for equivalent circuit battery models. , 2017, , .		0
65	Inconsistency Effect of Internal Resistance on Performance of Lithium-ion Battery Strings. , 2019, , .		0
66	A rapid screening framework of retired lithium-ion batteries for echelon utilization based on extreme learning machine. , 2021, , .		0
67	An Early Battery Fault Diagnosis Method Based on Multi-Source Information Fusion Theory. , 2021, , .		0
68	An Intelligent Self-Heating Strategy Based on High- Gain Incremental Controller for Low-Temperature Lithium-ion Batteries. , 2021, , .		0