

# Daohan Wang

## List of Publications by Year in descending order

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papers

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citations

331670

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times ranked

969  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Permanent Magnet Synchronous Machines With Nonuniformly Distributed Teeth. IEEE Transactions on Industrial Electronics, 2022, 69, 8705-8715.	7.9	6
7	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
8	Towards Long Lifetime Battery: AI-Based Manufacturing and Management. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1139-1165.	13.1	111
9	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
10	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
11	Study on the Effect of High Temperature and High-Current Rate on Fast Charging of Lithium-ion Batteries. , 2021, , .		2
12	A Fast Capacity Estimation Approach for Retired Lithium-ion Batteries. , 2021, , .		1
13	A New On-board Charging-Driving Integrated Topology for V2G Technology. World Electric Vehicle Journal, 2021, 12, 231.	3.0	1
14	A rapid screening framework of retired lithium-ion batteries for echelon utilization based on extreme learning machine. , 2021, , .		0
15	An Early Battery Fault Diagnosis Method Based on Multi-Source Information Fusion Theory. , 2021, , .		0
16	An Intelligent Self-Heating Strategy Based on High-Gain Incremental Controller for Low-Temperature Lithium-ion Batteries. , 2021, , .		0
17	A state-of-charge uniformity control method for energy storage batteries based on distributed cooperative control. , 2021, , .		1
18	Consistent Control for SOH of Energy Storage Batteries Based on Game Theory. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Fast Equalization for Lithium Ion Battery Packs Based on Reconfigurable Battery Structure. , 2020, , .		3
23	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
24	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
25	A Fractional-Order Kinetic Battery Model of Lithium-Ion Batteries Considering a Nonlinear Capacity. Electronics (Switzerland), 2019, 8, 394.	3.1	20
26	A Zero-Current-Switching Heater Based on Four-Resonant-State LC Converter for Low-Temperature Lithium-Ion Batteries of Electric Vehicles. , 2019, , .		1
27	A Multi-Cell-to-Multi-Cell Equalizer for Series-Connected Batteries Based on Flyback Conversion. , 2019, , .		4
28	Suppression of Torque Ripple of Synchronous Reluctance Motor by Optimizing Air-gap Magnetic Field. , 2019, , .		2
29	Study on the Effect of Different AC Excitations on the Internal Heating for Low-Temperature Batteries. , 2019, , .		2
30	Inconsistency Effect of Internal Resistance on Performance of Lithium-ion Battery Strings. , 2019, , .		0
31	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
32	An Optimized Mesh-Structured Switched-Capacitor Equalizer for Lithium-Ion Battery Strings. IEEE Transactions on Transportation Electrification, 2019, 5, 252-261.	7.8	46
33	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
34	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
35	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
36	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

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37	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
38	A direct multi-cells-to-multi-cells equalizer based on LC matrix converter for series-connected battery strings. , 2018, , .		4
39	A fast-speed heater with internal and external heating for lithium-ion batteries at low temperatures. , 2018, , .		2
40	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
41	A Delta-Structured Switched-Capacitor Equalizer for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2018, , 1-1.	7.9	74
42	Parameters Identification and Sensitive Characteristics Analysis for Lithium-Ion Batteries of Electric Vehicles. Energies, 2018, 11, 19.	3.1	19
43	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
44	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
45	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
46	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
47	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
48	A battery equalizer with zero-current switching and zero-voltage gap among cells based on three-resonant-state LC converters. , 2017, , .		3
49	An automatic battery equalizer based on forward and flyback conversion for series-connected battery strings. , 2017, , .		15
50	A Modularization Method for Battery Equalizers Using Multiwinding Transformers. IEEE Transactions on Vehicular Technology, 2017, 66, 8710-8722.	6.3	55
51	A switched-coupling-capacitor equalizer for series-connected battery strings. , 2017, , .		18
52	A Switched-Coupling-Capacitor Equalizer for Series-Connected Battery Strings. IEEE Transactions on Power Electronics, 2017, 32, 7694-7706.	7.9	112
53	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
54	A star-structured switched-capacitor equalizer for series-connected battery strings. , 2017, , .		5

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55	Analysis of cogging torque and flux weakening capability of a novel multi-stator hybrid excitation permanent magnet synchronous motor. , 2017, , .		3
56	A delta-structured switched-capacitor equalizer for series-connected battery strings. , 2017, , .		9
57	Co-simulation of energy management strategy for hybrid electric vehicle in AVL InMotion. , 2017, , .		6
58	An iterative identification method for equivalent circuit battery models. , 2017, , .		0
59	A fractional-order KiBaM of lithium-ion batteries with capacity nonlinearity. , 2017, , .		1
60	Multi-fault online detection method for series-connected battery packs. , 2017, , .		1
61	Aging performances and cycle-life predictions of Li-ion battery. , 2016, , .		3
62	A pack-to-cell-to-pack battery equalizer with soft-switching based on buck-boost and bidirectional LC resonant converters. , 2016, , .		7
63	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
64	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
65	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
66	Modularized charge equalizer using multiwinding transformers for Lithium-ion battery system. , 2014, , .		2
67	Reducing Cogging Torque in Surface-mounted Permanent Magnet Motors by Teeth Notching. , 2007, , .		14
68	Analysis and design of a new single-phase power source. , 2005, , .		3