

List of Publications by Year in  
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116 papers	2,886 citations	28 h-index	50 g-index
138 ext. papers	3,662 ext. citations	5 avg, IF	5.63 L-index

#	Paper	IF	Citations
116	Partial Discharge Diagnostics: Data Cleaning and Feature Extraction. <i>Energies</i> , <b>2022</b> , 15, 508	3.1	2
115	Holistic data-driven method for optimal sizing and operation of an urban islanded microgrid. <i>Energy Conversion and Economics</i> , <b>2021</b> , 2, 133-144	0.7	1
114	Demystifying Thermal Comfort in Smart Buildings: An Interpretable Machine Learning Approach. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 8021-8031	10.7	4
113	PMU Placement for Measurement Redundancy Distribution Considering Zero Injection Bus and Contingencies. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 5396-5406	4.3	8
112	Full Coverage of Optimal Phasor Measurement Unit Placement Solutions in Distribution Systems Using Integer Linear Programming. <i>Energies</i> , <b>2019</b> , 12, 1552	3.1	12
111	Optimum Placement of Phasor Measurement Units in Power Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 421-429	5.2	23
110	Online Estimation of Power Capacity With Noise Effect Attenuation for Lithium-Ion Battery. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5724-5735	8.9	68
109	Circulating Current Suppression in Modular Multilevel Converters With Even-Harmonic Repetitive Control. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 298-309	4.3	33
108	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6696-6708	8.9	65
107	Comparison of pin-fin and finned shape heat sink for power electronics in future aircraft. <i>Applied Thermal Engineering</i> , <b>2018</b> , 136, 364-374	5.8	44
106	iTCM: Toward Learning-Based Thermal Comfort Modeling via Pervasive Sensing for Smart Buildings. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 4164-4177	10.7	24
105	A Physics-Based Compact Model of SiC Junction Barrier Schottky Diode for Circuit Simulation. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 3095-3103	2.9	6
104	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 1051-1061	8.9	42
103	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> , <b>2018</b> , 65, 1336-1346	8.9	119
102	A Practical Lithium-ion Battery Model Based on the Butler-Volmer Equation <b>2018</b> ,		1
101	Comparative study of methods for integrated model identification and state of charge estimation of lithium-ion battery. <i>Journal of Power Sources</i> , <b>2018</b> , 402, 189-197	8.9	40
100	Smart lighting system using ANN-IMC for personalized lighting control and daylight harvesting. <i>Building and Environment</i> , <b>2018</b> , 139, 170-180	6.5	51

99	Magnetic Integration of Three-Phase LCL Filter With Delta-Yoke Composite Core. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 3835-3843	7.2	24
98	A multi-timescale estimator for battery state of charge and capacity dual estimation based on an online identified model. <i>Applied Energy</i> , <b>2017</b> , 204, 1264-1274	10.7	175
97	An adaptive model for vanadium redox flow battery and its application for online peak power estimation. <i>Journal of Power Sources</i> , <b>2017</b> , 344, 195-207	8.9	57
96	An Accurate Subcircuit Model of SiC Half-Bridge Module for Switching-Loss Optimization. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 3840-3848	4.3	25
95	Toward Joint CompressionTransmission Optimization for Green Wearable Devices: An Energy-Delay Tradeoff. <i>IEEE Internet of Things Journal</i> , <b>2017</b> , 4, 1006-1018	10.7	8
94	A 50-kW High-Frequency and High-Efficiency SiC Voltage Source Inverter for More Electric Aircraft. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 9124-9134	8.9	66
93	Online State of Charge and Capacity Dual Estimation with a Multi-timescale Estimator for Lithium-ion Battery. <i>Energy Procedia</i> , <b>2017</b> , 105, 2953-2958	2.3	3
92	Real-time integratable isolated voltage monitoring unit of semiconductor power switch to improve power converter reliability <b>2017</b> ,		2
91	A high-fidelity hybrid lithium-ion battery model for SOE and runtime prediction <b>2017</b> ,		3
90	A Simulation Study on a Thermoelectric Generator for Waste Heat Recovery from a Marine Engine. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2908-2914	1.9	12
89	A high-fidelity hybrid lithium-ion battery model for state of energy and circuit characteristics prediction <b>2017</b> ,		1
88	Loss-of-life investigation of EV batteries used as smart energy storage for commercial building-based solar photovoltaic systems. <i>IET Electrical Systems in Transportation</i> , <b>2017</b> , 7, 223-229	2.1	12
87	Experimental Comparison of High-Speed Gate Driver Design for 1.2-kV/120-A Si IGBT and SiC MOSFET Modules. <i>IET Power Electronics</i> , <b>2017</b> , 10, 979-986	2.2	22
86	Design of high-speed gate driver to reduce switching loss and mitigate parasitic effects for SiC MOSFET. <i>IET Power Electronics</i> , <b>2017</b> , 10, 1183-1189	2.2	11
85	Modelling and control of vanadium redox flow battery for profile based charging applications. <i>Energy</i> , <b>2017</b> , 141, 1479-1488	7.9	20
84	. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 1168-1176	4.3	44
83	A Digital Method of Power-Sharing and Cross-Regulation Suppression for Single-Inductor Multiple-Input Multiple-Output DCDC Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 2836-2847	8.9	51
82	Micro PMU based monitoring system for active distribution networks <b>2017</b> ,		9

81	Virtual storage capacity using demand response management to overcome intermittency of solar PV generation. <i>IET Renewable Power Generation</i> , <b>2017</b> , 11, 1741-1748	2.9	29
80	Performance Analysis of Machine-Learning Approaches for Modeling the Charging/Discharging Profiles of Stationary Battery Systems with Non-Uniform Cell Aging. <i>Batteries</i> , <b>2017</b> , 3, 18	5.7	7
79	Online junction temperature estimation of IGBT modules for Space Vector Modulation based inverter system <b>2016</b> ,		7
78	Enhanced online model identification and state of charge estimation for lithium-ion battery with a FBCRLS based observer. <i>Applied Energy</i> , <b>2016</b> , 181, 332-341	10.7	119
77	Dynamic model predictive voltage control for single-input dual-output flyback converter <b>2016</b> ,		2
76	Lumped magnetic circuit model for faulty machine performance prediction. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2016</b> , 50, 339-352	0.4	2
75	Even-harmonic repetitive control for circulating current suppression in Modular Multilevel Converters <b>2016</b> ,		8
74	Inductively coupled modular battery system for electric vehicles. <i>IET Power Electronics</i> , <b>2016</b> , 9, 600-609	2.2	11
73	Impulsive noise reduction for transient Earth voltage-based partial discharge using Wavelet-entropy. <i>IET Science, Measurement and Technology</i> , <b>2016</b> , 10, 69-76	1.5	16
72	Impact of demand response management on chargeability of electric vehicles. <i>Energy</i> , <b>2016</b> , 111, 190-196	6.9	15
71	<b>2016</b> ,		3
70	Online electro-thermal model for real time junction temperature estimation for insulated gate bipolar transistor (IGBT) <b>2016</b> ,		3
69	Condition monitoring system of Ubin Island micro-grid <b>2016</b> ,		1
68	Review on application of additive manufacturing for electrical power converters <b>2016</b> ,		3
67	Study of the influencing factors on the discharging performance of lithium-ion batteries and its index of state-of-energy <b>2016</b> ,		7
66	Hybrid approach based on global search algorithm for optimal placement of PMU in distribution networks <b>2016</b> ,		7
65	Customized optimal PMU Placement method for distribution networks <b>2016</b> ,		2
64	An equivalent circuit model for Li-ion batteries used in energy storage systems in building environment <b>2016</b> ,		3

63	<b>2016,</b>	7
62	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> , <b>2016</b> , 172, 169-179	10.7 127
61	An equivalent circuit model for state of energy estimation of lithium-ion battery <b>2016,</b>	11
60	Adaptive estimation of state of charge and capacity with online identified battery model for vanadium redox flow battery. <i>Journal of Power Sources</i> , <b>2016</b> , 332, 389-398	8.9 125
59	Investigation on the Influence of Nanofluids in Wavy Microchannel Heat Sink. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2015</b> , 5, 956-970	1.7 10
58	Intertied ac/dc microgrids with autonomous power import and export. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 65, 385-393	5.1 26
57	Operational Adequacy Studies of a PV-Based and Energy Storage Stand-Alone Microgrid. <i>IEEE Transactions on Power Systems</i> , <b>2015</b> , 30, 892-900	7 47
56	State of charge estimation considering OCV hysteresis in lithium iron phosphate battery for UPS applications <b>2015,</b>	1
55	Comparison of power cycling and thermal cycling effects on the thermal impedance degradation in IGBT modules <b>2015,</b>	16
54	Energy efficiency of lithium-ion battery used as energy storage devices in micro-grid <b>2015,</b>	27
53	Inter-module state-of-charge balancing and fault-tolerant operation of cascaded H-bridge converter using multi-dimensional modulation for electric vehicle application. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1912-1919	2.2 30
52	State estimation for distribution systems using micro-synchrophasors <b>2015,</b>	13
51	Review of high speed electrical machines in gas turbine electrical power generation <b>2015,</b>	2
50	Cooperative operation of chemical-free energy storage system with solar photovoltaic for resilient power distribution in buildings [A case study <b>2014,</b>	2
49	Integration of Multiple Modularized Distributed Energy Resource Devices Into AC Grid of Buildings: Issue of Active Power Circulation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6118-6127	8.9 3
48	Improved lithium-ion battery model with hysteresis effect <b>2014,</b>	6
47	WSN-based intelligent visual performance management in tropical buildings <b>2014,</b>	1
46	Frequency control ancillary service provided by a wind farm: dual-BESS scheme. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2014</b> , 2, 93-103	4 5

45	Assessment of climate-based daylight performance in tropical office buildings: a case study. <i>International Journal of Low-Carbon Technologies</i> , <b>2014</b> , 9, 100-108	2.8	9
44	Modeling and Sensorless Direct Torque and Flux Control of a Dual-Airgap Axial Flux Permanent-Magnet Machine With Field-Weakening Operation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2014</b> , 19, 412-422	5.5	20
43	Double star chopper cell converter for battery electric vehicles with inter-module SoC balancing and fault tolerant control <b>2014</b> ,		3
42	Sensor fault detection, isolation and system reconfiguration based on extended Kalman filter for induction motor drives. <i>IET Electric Power Applications</i> , <b>2013</b> , 7, 607-617	1.8	53
41	Conducted EMI Prediction of the PFC Converter Including Nonlinear Behavior of Boost Inductor. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2013</b> , 55, 1107-1114	2	16
40	Design of AlN-based micro-channel heat sink in direct bond copper for power electronics packaging. <i>Applied Thermal Engineering</i> , <b>2013</b> , 52, 120-129	5.8	47
39	. <i>IEEE Systems Journal</i> , <b>2013</b> , 7, 723-731	4.3	1
38	Design and Evaluation of a New Converter Control Strategy for Near-Shore Tidal Turbines. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 5648-5659	8.9	10
37	Power Buffer With Model Predictive Control for Stability of Vehicular Power Systems With Constant Power Loads. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 5804-5812	7.2	37
36	Design and control of a novel flywheel energy storage system assisted by hybrid mechanical-magnetic bearings. <i>Mechatronics</i> , <b>2013</b> , 23, 297-309	3	17
35	Magnetic equivalent circuit modeling for interior permanent magnet synchronous machine under eccentricity fault <b>2013</b> ,		3
34	Cascaded sliding mode control for global stability of three phase AC/DC PWM rectifier with rapidly varying power electronic loads <b>2013</b> ,		4
33	Advanced Control of Series Voltage Compensation to Enhance Wind Turbine Ride Through. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 763-772	7.2	57
32	A loop cancellation based active damping solution for constant power instability in vehicular power systems <b>2012</b> ,		1
31	Modeling and Position-Sensorless Control of a Dual-Airgap Axial Flux Permanent Magnet Machine for Flywheel Energy Storage Systems. <i>Journal of Power Electronics</i> , <b>2012</b> , 12, 758-768	0.9	3
30	Robust decoupling control of a three-link robot arm directly driven by permanent magnet synchronous motors. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2011</b> , 36, 279-293 <sup>0.4</sup>		3
29	A Novel Axial Flux Permanent-Magnet Machine for Flywheel Energy Storage System: Design and Analysis. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 3784-3794	8.9	112
28	Design of a Robust Grid Interface System for PMSG-Based Wind Turbine Generators. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 316-328	8.9	164

27	Comparison of axial flux PM synchronous motor and induction motor by mathematical and finite element analysis. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2011</b> , 37, 263-273	0.4	10
26	Stiffness analysis and levitation force control of active magnetic bearing for a partially-self-bearing flywheel system. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2011</b> , 36, 229-242	0.4	16
25	. <i>IEEE Systems Journal</i> , <b>2011</b> , 5, 146-155	4.3	12
24	Virtual resistance based active damping solution for constant power instability in AC microgrids <b>2011</b> ,		12
23	Switching characteristics of diamond-based m-i-p+ diodes in power electronic applications <b>2011</b> ,		2
22	Control system design and implementation of a partially-self-bearing flywheel energy storage system <b>2011</b> ,		1
21	Model predictive control of a novel axial flux permanent magnet machine for flywheel energy storage system <b>2010</b> ,		6
20	On the modeling and control of a novel flywheel energy storage system <b>2010</b> ,		3
19	Novel three-phase AC-AC Z-Source converters using matrix converter theory <b>2009</b> ,		5
18	Determination of Dimension-Independent Magnetic and Dielectric Properties for MnZn Ferrite Cores and Its EMI Applications. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2008</b> , 50, 597-602	2	18
17	A Novel Flywheel Energy Storage System With Partially-Self-Bearing Flywheel-Rotor. <i>IEEE Transactions on Energy Conversion</i> , <b>2007</b> , 22, 477-487	5.4	40
16	Vibration distribution in output sections of a piezoelectric transformer operating at thickness shear mode. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 1984-91	3.2	
15	An efficient finite-difference-based Newton-Raphson method to determine intrinsic complex permeabilities and permittivities for Mn-Zn ferrites. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 1655-1660 <sup>2</sup>		10
14	Modeling and analysis of dual-output piezoelectric transformer operating at the thickness-shear vibration mode. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2006</b> , 53, 579-85	3.2	14
13	A tunable low-frequency piezoelectric phase shifter. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 128, 25-32	3.9	2
12	Robust adaptive control of a three-axis motion Simulator with state observers. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2005</b> , 10, 437-448	5.5	27
11	An observer-based robust adaptive controller for permanent magnet synchronous motor drive with initial rotor angle uncertainty. <i>IEEE Transactions on Energy Conversion</i> , <b>2005</b> , 20, 115-120	5.4	3
10	A plate-shaped high power-density piezoelectric transformer with dual outputs. <i>Ceramics International</i> , <b>2004</b> , 30, 1797-1801	5.1	21

9	Nonlinear control of interior permanent-magnet synchronous motor. <i>IEEE Transactions on Industry Applications</i> , <b>2003</b> , 39, 408-416	4.3	17 <sup>1</sup>
8	Observer-based robust adaptive control of PMSM with initial rotor position uncertainty. <i>IEEE Transactions on Industry Applications</i> , <b>2003</b> , 39, 645-656	4.3	21
7	Performance analysis of single-phase line-start permanent-magnet synchronous motor. <i>IEEE Transactions on Energy Conversion</i> , <b>2002</b> , 17, 453-462	5.4	17
6	A new hybrid C-dump and buck-fronted converter for switched reluctance motors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2000</b> , 47, 1228-1236	8.9	5
5	Using power diode models for circuit simulations-a comprehensive review. <i>IEEE Transactions on Industrial Electronics</i> , <b>1999</b> , 46, 637-645	8.9	24
4	New structure transcutaneous transformer for totally implantable artificial heart system. <i>Electronics Letters</i> , <b>1999</b> , 35, 107	1.1	2
3	A synchronous reference frame based control of an unified power flow controller <b>1997</b> ,		3
2	Computer-aided design and analysis of direct-driven wheel motor drive. <i>IEEE Transactions on Power Electronics</i> , <b>1997</b> , 12, 517-527	7.2	20
1	An experimentally verified hybrid Cassie-Mayr electric arc model for power electronics simulations. <i>IEEE Transactions on Power Electronics</i> , <b>1997</b> , 12, 429-436	7.2	65