

Bing Ji

List of Publications by Year in descending order

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75
papers

2,127
citations

304602

22
h-index

233338

45
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75
all docs

75
docs citations

75
times ranked

2198
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerodynamic Performance of a Flyable Flapping Wing Rotor With Passive Pitching Angle Variation. IEEE Transactions on Industrial Electronics, 2022, 69, 9176-9184.	5.2	17
2	<i>In Situ</i> Diagnosis of Wire Bonding Faults for Multichip IGBT Modules Based on the Crosstalk Effect. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5107-5117.	3.7	5
3	Observer Design for Sampled-Data Systems via Deterministic Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2931-2939.	7.2	10
4	Short Circuit and Broken Rotor Faults Severity Discrimination in Induction Machines Using Non-invasive Optical Fiber Technology. Energies, 2022, 15, 577.	1.6	1
5	A four-step control for IGBT switching improvement using an active voltage gate driver. IET Power Electronics, 2022, 15, 548-557.	1.5	0
6	A hierarchical opportunistic screening model for osteoporosis using machine learning applied to clinical data and CT images. BMC Bioinformatics, 2022, 23, 63.	1.2	13
7	Evaluation of the turn-off transient controllability for high-power IGBT modules. IET Power Electronics, 2022, 15, 631-643.	1.5	3
8	Optical FBG-T Based Fault Detection Technique for EV Induction Machines. Journal of Physics: Conference Series, 2022, 2195, 012045.	0.3	1
9	Aerodynamic analysis of insect-like flapping wings in fan-sweep and parallel motions with the slit effect. Biomimetic Intelligence and Robotics, 2022, 2, 100046.	1.1	2
10	1.2-kV silicon carbide planar split-gate MOSFET with source field plate for superior figure-of-merits. IET Power Electronics, 2022, 15, 1502-1510.	1.5	3
11	Fault-tolerant control strategy of open-winding brushless doubly fed wind power generator based on direct power control. IET Electric Power Applications, 2021, 15, 799-810.	1.1	2
12	Comparison of TSEP Performances Operating at Homogeneous and Inhomogeneous Temperature Distribution in Multichip IGBT Power Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6282-6292.	3.7	14
13	Modeling of neural networks for weather forecasting in debre markos, Ethiopia. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'uan, 2021, 44, 762-769.	0.6	1
14	Active Gate Delay Time Control of Si/SiC Hybrid Switch for Junction Temperature Balance Over a Wide Power Range. IEEE Transactions on Power Electronics, 2020, 35, 5354-5365.	5.4	31
15	Investigation on Degradation of SiC MOSFET Under Surge Current Stress of Body Diode. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 77-89.	3.7	36
16	Modeling and energy-based sway reduction control for tower crane systems with double-pendulum and spherical-pendulum effects. Measurement and Control, 2020, 53, 141-150.	0.9	38
17	Power Loss Model and Device Sizing Optimization of Si/SiC Hybrid Switches. IEEE Transactions on Power Electronics, 2020, 35, 8512-8523.	5.4	33
18	Mathematical modeling of canonical and non-canonical NF- κ B pathways in TNF stimulation. Computer Methods and Programs in Biomedicine, 2020, 196, 105677.	2.6	4

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19	Short Landing Performance and Scale Effect of a Flapping Wing Aircraft. <i>Journal of Aerospace Engineering</i> , 2020, 33, 04020085.	0.8	1
20	In-situ health monitoring of IGBT modules of an on-line medium-voltage inverter system using for industrial Internet of Things. <i>CSEE Journal of Power and Energy Systems</i> , 2020, , .	1.7	3
21	The Cardiodynamicsgram Based Early Detection of Myocardial Ischemia Using the Lempel-Ziv Complexity. <i>IEEE Access</i> , 2020, 8, 207894-207904.	2.6	8
22	Aerodynamic Analysis of a Flapping Wing Aircraft for Short Landing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3404.	1.3	0
23	A novel remaining useful life prediction framework for lithium-ion battery using grey model and particle filtering. <i>International Journal of Energy Research</i> , 2020, 44, 7435-7449.	2.2	33
24	Propensity-score matched comparison of partial versus radical nephrectomy for T1NOMO sarcomatoid renal cell carcinoma. <i>Translational Andrology and Urology</i> , 2020, 9, 250-257.	0.6	2
25	Design and experiment of a bionic flapping wing mechanism with flapping“twist”swing motion based on a single rotation. <i>AIP Advances</i> , 2020, 10, .	0.6	7
26	Lycopene Alleviates DSS-Induced Colitis and Behavioral Disorders via Mediating Microbes-Gut“Brain Axis Balance. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3963-3975.	2.4	84
27	Mathematical modelling of the role of GADD45 ² in the pathogenesis of multiple myeloma. <i>Royal Society Open Science</i> , 2020, 7, 192152.	1.1	1
28	Stability Study and Nonlinear Analysis of DC“DC Power Converters With Constant Power Loads at the Fast Timescale. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 3225-3236.	3.7	17
29	Analytical model for predicting the junction temperature of chips considering the internal electrothermal coupling inside SiC metal“oxide”semiconductor field“effect transistor modules. <i>IET Power Electronics</i> , 2020, 13, 436-444.	1.5	7
30	Mathematical modelling of the role of Endo180 network in the development of metastatic bone disease in prostate cancer. <i>Computers in Biology and Medicine</i> , 2020, 117, 103619.	3.9	8
31	Investigate Contribution of Multi-Microseismic Data to Rockburst Risk Prediction Using Support Vector Machine With Genetic Algorithm. <i>IEEE Access</i> , 2020, 8, 58817-58828.	2.6	22
32	Secoisolariciresinol diglucoside alleviates hepatic lipid metabolic misalignment involving the endoplasmic reticulum“mitochondrial axis. <i>Food and Function</i> , 2020, 11, 3952-3963.	2.1	8
33	A“Population Study to Identify Candidates for Cytoreductive Nephrectomy in Patients with Metastatic Sarcomatoid Renal Cell Carcinoma from the Surveillance, Epidemiology, and End Results (SEER) Database. <i>Medical Science Monitor</i> , 2020, 26, e921297.	0.5	6
34	Design and control of a bidirectional wireless charging system using GaN devices. , 2019, , .		3
35	The Manufacturing Process of Kiwifruit Fruit Powder with High Dietary Fiber and Its Laxative Effect. <i>Molecules</i> , 2019, 24, 3813.	1.7	27
36	Neutral Lipid Content in Lipid Droplets: Potential Biomarker of Cordycepin Accumulation in Cordycepin-Producing Fungi. <i>Molecules</i> , 2019, 24, 3363.	1.7	9

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37	Mathematical modelling of bone remodelling cycles including the NF κ B signalling pathway. Computers in Biology and Medicine, 2019, 107, 257-264.	3.9	4
38	Low-cost and High-accuracy LIDAR SLAM for Large Outdoor Scenarios. , 2019, , .		9
39	Voltageâ€œextrapolative charge balance controller with charge compensation for flyback converter operating in DCM. IET Power Electronics, 2019, 12, 2713-2721.	1.5	3
40	Analysis Methodology for Differential Mode Interference in Energy Supply System of Hybrid DC Breaker. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1967-1978.	1.4	15
41	Gateâ€œEmitter Pre-threshold Voltage as a Health-Sensitive Parameter for IGBT Chip Failure Monitoring in High-Voltage Multichip IGBT Power Modules. IEEE Transactions on Power Electronics, 2019, 34, 9158-9169.	5.4	49
42	Questionnaire-Based Discussion of Finite Element Multiphysics Simulation Software in Power Electronics. IEEE Transactions on Power Electronics, 2018, 33, 7010-7020.	5.4	17
43	Liquid Metal Magnetohydrodynamic Pump for Junction Temperature Control of Power Modules. IEEE Transactions on Power Electronics, 2018, 33, 10583-10593.	5.4	38
44	A Novel State-of-Charge Estimation Method of Lithium-Ion Batteries Combining the Grey Model and Genetic Algorithms. IEEE Transactions on Power Electronics, 2018, 33, 8797-8807.	5.4	67
45	Advanced Gate Drive Approaches for Optimal Device-Level Control. , 2018, , 453-475.		0
46	Unsteady aerodynamic model of flexible flapping wing. Aerospace Science and Technology, 2018, 80, 354-367.	2.5	33
47	3D Thermal Analysis of a Permanent Magnet Motor with Cooling Fans. Advances in High-speed Rail Technology, 2018, , 577-587.	0.0	1
48	Smelting condition identification for a fused magnesium furnace based on an acoustic signal. Journal of Materials Processing Technology, 2017, 244, 231-239.	3.1	9
49	Effect of fertilization on structural and molecular characteristics of hen egg ovalbumin. Food Chemistry, 2017, 221, 1340-1345.	4.2	13
50	Nonlinear Analysis and Control of Interleaved Boost Converter Using Real-Time Cycle to Cycle Variable Slope Compensation. IEEE Transactions on Power Electronics, 2017, 32, 7256-7270.	5.4	41
51	Investigation of optimal IGBT switching behaviours under advanced gate control. , 2017, , .		4
52	High frequency inverter topologies integrated with the coupled inductor bridge arm. IET Power Electronics, 2016, 9, 1144-1152.	1.5	5
53	Optimal switching performance of IGBT using active gate drive for PWM converters. , 2016, , .		2
54	A virtual approach to evaluate therapies for management of multiple myeloma induced bone disease. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02735.	1.0	3

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55	Optimised phase disposition pulse-width modulation strategy for hybrid-clamped multilevel inverters using switching state sequences. IET Power Electronics, 2015, 8, 1095-1103.	1.5	7
56	Multiobjective Design Optimization of IGBT Power Modules Considering Power Cycling and Thermal Cycling. IEEE Transactions on Power Electronics, 2015, 30, 2493-2504.	5.4	97
57	<i>In Situ</i> Diagnostics and Prognostics of Solder Fatigue in IGBT Modules for Electric Vehicle Drives. IEEE Transactions on Power Electronics, 2015, 30, 1535-1543.	5.4	148
58	3D thermal analysis of a permanent magnet motor with cooling fans. Journal of Zhejiang University: Science A, 2015, 16, 616-621.	1.3	4
59	Analysis and prediction of the discharge characteristics of the lithium-ion battery based on the Grey system theory. IET Power Electronics, 2015, 8, 2361-2369.	1.5	31
60	New multi-stage DC-DC converters for grid-connected photovoltaic systems. Renewable Energy, 2015, 74, 247-254.	4.3	37
61	Three-Port DC-DC Converter for Stand-Alone Photovoltaic Systems. IEEE Transactions on Power Electronics, 2015, 30, 3068-3076.	5.4	131
62	Investigating the efficacy of bisphosphonates treatment against multiple myeloma induced bone disease using a computational model. Bio-Medical Materials and Engineering, 2014, 24, 3373-3378.	0.4	0
63	Integrated condition monitoring for vehicle-ready power modules. , 2014, , .		6
64	IGBT condition monitoring with system identification methods. , 2014, , .		3
65	A predator-prey based mathematical model of the bone remodelling cycle: Exploring the relationship between the model parameters and biochemical factors. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 1035-1042.	1.0	0
66	Mathematical modelling of the pathogenesis of multiple myeloma-induced bone disease. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1085-1102.	1.0	21
67	A Near-State Three-Dimensional Space Vector Modulation for a Three-Phase Four-Leg Voltage Source Inverter. IEEE Transactions on Power Electronics, 2014, 29, 5715-5726.	5.4	81
68	Real-Time Temperature Estimation for Power MOSFETs Considering Thermal Aging Effects. IEEE Transactions on Device and Materials Reliability, 2014, 14, 220-228.	1.5	152
69	Surrogate-Based Analysis and Optimization for the Design of Heat Sinks With Jet Impingement. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 429-437.	1.4	20
70	New SR Drive With Integrated Charging Capacity for Plug-In Hybrid Electric Vehicles (PHEVs). IEEE Transactions on Industrial Electronics, 2014, 61, 5722-5731.	5.2	134
71	Thermography-Based Virtual MPPT Scheme for Improving PV Energy Efficiency Under Partial Shading Conditions. IEEE Transactions on Power Electronics, 2014, 29, 5667-5672.	5.4	94
72	Onboard condition monitoring of solder fatigue in IGBT power modules. , 2013, , .		14

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73	In Situ Diagnostics and Prognostics of Wire Bonding Faults in IGBT Modules for Electric Vehicle Drives. IEEE Transactions on Power Electronics, 2013, 28, 5568-5577.	5.4	366
74	Electromagnetic and temperature field analyses of winding short-circuits in DFIGs. , 2013, , .		5
75	In-situ bond wire health monitoring circuit for IGBT power modules. , 2012, , .		3