

# Bing Ji

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7197768/publications.pdf>

Version: 2024-02-01

75  
papers

2,127  
citations

304602

22  
h-index

233338

45  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2198  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	<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
4	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
5	Three-Port DC-DC Converter for Stand-Alone Photovoltaic Systems. IEEE Transactions on Power Electronics, 2015, 30, 3068-3076.	5.4	131
6	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
7	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
8	Lycopene Alleviates DSS-Induced Colitis and Behavioral Disorders via Mediating Microbes-Gut-Brain Axis Balance. Journal of Agricultural and Food Chemistry, 2020, 68, 3963-3975.	2.4	84
9	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
10	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
11	Gate-Emitter 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
12	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
13	Liquid Metal Magnetohydrodynamic Pump for Junction Temperature Control of Power Modules. IEEE Transactions on Power Electronics, 2018, 33, 10583-10593.	5.4	38
14	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
15	New multi-stage DC-DC converters for grid-connected photovoltaic systems. Renewable Energy, 2015, 74, 247-254.	4.3	37
16	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
17	Unsteady aerodynamic model of flexible flapping wing. Aerospace Science and Technology, 2018, 80, 354-367.	2.5	33
18	Power Loss Model and Device Sizing Optimization of Si/SiC Hybrid Switches. IEEE Transactions on Power Electronics, 2020, 35, 8512-8523.	5.4	33

#	ARTICLE	IF	CITATIONS
19	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
20	Analysis and prediction of the discharge characteristics of the lithium-ion battery based on the Grey system theory. <i>IET Power Electronics</i> , 2015, 8, 2361-2369.	1.5	31
21	Active Gate Delay Time Control of Si/SiC Hybrid Switch for Junction Temperature Balance Over a Wide Power Range. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 5354-5365.	5.4	31
22	The Manufacturing Process of Kiwifruit Fruit Powder with High Dietary Fiber and Its Laxative Effect. <i>Molecules</i> , 2019, 24, 3813.	1.7	27
23	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
24	Mathematical modelling of the pathogenesis of multiple myeloma-induced bone disease. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014, 30, 1085-1102.	1.0	21
25	Surrogate-Based Analysis and Optimization for the Design of Heat Sinks With Jet Impingement. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014, 4, 429-437.	1.4	20
26	Questionnaire-Based Discussion of Finite Element Multiphysics Simulation Software in Power Electronics. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 7010-7020.	5.4	17
27	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
28	Aerodynamic Performance of a Flyable Flapping Wing Rotor With Passive Pitching Angle Variation. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 9176-9184.	5.2	17
29	Analysis Methodology for Differential Mode Interference in Energy Supply System of Hybrid DC Breaker. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 1967-1978.	1.4	15
30	Onboard condition monitoring of solder fatigue in IGBT power modules. , 2013, , .		14
31	Comparison of TSEP Performances Operating at Homogeneous and Inhomogeneous Temperature Distribution in Multichip IGBT Power Modules. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 6282-6292.	3.7	14
32	Effect of fertilization on structural and molecular characteristics of hen egg ovalbumin. <i>Food Chemistry</i> , 2017, 221, 1340-1345.	4.2	13
33	A hierarchical opportunistic screening model for osteoporosis using machine learning applied to clinical data and CT images. <i>BMC Bioinformatics</i> , 2022, 23, 63.	1.2	13
34	Observer Design for Sampled-Data Systems via Deterministic Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 2931-2939.	7.2	10
35	Smelting condition identification for a fused magnesium furnace based on an acoustic signal. <i>Journal of Materials Processing Technology</i> , 2017, 244, 231-239.	3.1	9
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

#	ARTICLE	IF	CITATIONS
37	Low-cost and High-accuracy LIDAR SLAM for Large Outdoor Scenarios. , 2019, , .		9
38	The Cardiodynamicsgram Based Early Detection of Myocardial Ischemia Using the Lempel-Ziv Complexity. IEEE Access, 2020, 8, 207894-207904.	2.6	8
39	Mathematical modelling of the role of Endo180 network in the development of metastatic bone disease in prostate cancer. Computers in Biology and Medicine, 2020, 117, 103619.	3.9	8
40	Secoisolariciresinol diglucoside alleviates hepatic lipid metabolic misalignment involving the endoplasmic reticulumâ€“mitochondrial axis. Food and Function, 2020, 11, 3952-3963.	2.1	8
41	Optimised phase disposition pulseâ€“width modulation strategy for hybridâ€“clamped multilevel inverters using switching state sequences. IET Power Electronics, 2015, 8, 1095-1103.	1.5	7
42	Design and experiment of a bionic flapping wing mechanism with flappingâ€“twistâ€“swing motion based on a single rotation. AIP Advances, 2020, 10, .	0.6	7
43	Analytical model for predicting the junction temperature of chips considering the internal electrothermal coupling inside SiC metalâ€“oxideâ€“semiconductor fieldâ€“effect transistor modules. IET Power Electronics, 2020, 13, 436-444.	1.5	7
44	Integrated condition monitoring for vehicle-ready power modules. , 2014, , .		6
45	AÂPopulation Study to Identify Candidates for Cyto-reductive Nephrectomy in Patients with Metastatic Sarcomatoid Renal Cell Carcinoma from the Surveillance, Epidemiology, and End Results (SEER) Database. Medical Science Monitor, 2020, 26, e921297.	0.5	6
46	Electromagnetic and temperature field analyses of winding short-circuits in DFIGs. , 2013, , .		5
47	High frequency inverter topologies integrated with the coupled inductor bridge arm. IET Power Electronics, 2016, 9, 1144-1152.	1.5	5
48	<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
49	3D thermal analysis of a permanent magnet motor with cooling fans. Journal of Zhejiang University: Science A, 2015, 16, 616-621.	1.3	4
50	Investigation of optimal IGBT switching behaviours under advanced gate control. , 2017, , .		4
51	Mathematical modelling of bone remodelling cycles including the NFÎB signalling pathway. Computers in Biology and Medicine, 2019, 107, 257-264.	3.9	4
52	Mathematical modeling of canonical and non-canonical NF-ÎB pathways in TNF stimulation. Computer Methods and Programs in Biomedicine, 2020, 196, 105677.	2.6	4
53	In-situ bond wire health monitoring circuit for IGBT power modules. , 2012, , .		3
54	IGBT condition monitoring with system identification methods. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
55	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
56	Design and control of a bidirectional wireless charging system using GaN devices. , 2019, , .		3
57	Voltageâ€œextrapolative charge balance controller with charge compensation for flyback converter operating in DCM. IET Power Electronics, 2019, 12, 2713-2721.	1.5	3
58	In-situ health monitoring of IGBT modules of an on-line medium-voltage inverter system using for industrial Internet of Things. CSEE Journal of Power and Energy Systems, 2020, , .	1.7	3
59	Evaluation of the turnâ€œoff transient controllability for highâ€œpower IGBT modules. IET Power Electronics, 2022, 15, 631-643.	1.5	3
60	1.2â€œkV silicon carbide planar splitâ€œgate MOSFET with source field plate for superior figureâ€œofâ€œmerits. IET Power Electronics, 2022, 15, 1502-1510.	1.5	3
61	Optimal switching performance of IGBT using active gate drive for PWM converters. , 2016, , .		2
62	Propensity-score matched comparison of partial versus radical nephrectomy for T1N0M0 sarcomatoid renal cell carcinoma. Translational Andrology and Urology, 2020, 9, 250-257.	0.6	2
63	Faultâ€œtolerant control strategy of openâ€œwinding brushless doubly fed wind power generator based on direct power control. IET Electric Power Applications, 2021, 15, 799-810.	1.1	2
64	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
65	Short Landing Performance and Scale Effect of a Flapping Wing Aircraft. Journal of Aerospace Engineering, 2020, 33, 04020085.	0.8	1
66	Mathematical modelling of the role of GADD45Î² in the pathogenesis of multiple myeloma. Royal Society Open Science, 2020, 7, 192152.	1.1	1
67	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
68	3D Thermal Analysis of a Permanent Magnet Motor with Cooling Fans. Advances in High-speed Rail Technology, 2018, , 577-587.	0.0	1
69	Short Circuit and Broken Rotor Faults Severity Discrimination in Induction Machines Using Non-invasive Optical Fiber Technology. Energies, 2022, 15, 577.	1.6	1
70	Optical FBG-T Based Fault Detection Technique for EV Induction Machines. Journal of Physics: Conference Series, 2022, 2195, 012045.	0.3	1
71	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
72	A predatorâ€œprey 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

#	ARTICLE	IF	CITATIONS
73	Advanced Gate Drive Approaches for Optimal Device-Level Control. , 2018, , 453-475.		0
74	Aerodynamic Analysis of a Flapping Wing Aircraft for Short Landing. Applied Sciences (Switzerland), 2020, 10, 3404.	1.3	0
75	A four-step control for IGBT switching improvement using an active voltage gate driver. IET Power Electronics, 2022, 15, 548-557.	1.5	0