Kangping Wang

List of Publications by Year
in descending order

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46 papers	1,490 citations	623574 14 h-index	677027 22 g-index
46 all docs	46 docs citations	46 times ranked	1168 citing authors

#	Article	IF	Citations
1	A Maximum Efficiency Point Tracking Control Scheme for Wireless Power Transfer Systems Using Magnetic Resonant Coupling. IEEE Transactions on Power Electronics, 2015, 30, 3998-4008.	5.4	460
2	Pulse Density Modulation for Maximum Efficiency Point Tracking of Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2018, 33, 5492-5501.	5.4	139
3	A Multiloop Method for Minimization of Parasitic Inductance in GaN-Based High-Frequency DCâ€“DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 4728-4740.	5.4	104
4	Pulse Density Modulated ZVS Full-Bridge Converters for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2019, 34, 369-377.	5.4	104
5	An Analytical Switching Process Model of Low-Voltage eGaN HEMTs for Loss Calculation. IEEE Transactions on Power Electronics, 2016, 31, 635-647.	5.4	87
6	Instability Analysis and Oscillation Suppression of Enhancement-Mode GaN Devices in Half-Bridge Circuits. IEEE Transactions on Power Electronics, 2018, 33, 1585-1596.	5.4	81
7	Dynamic Modeling Based on Coupled Modes for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 6245-6253.	5.4	75
8	A High-Bandwidth Integrated Current Measurement for Detecting Switching Current of Fast GaN Devices. IEEE Transactions on Power Electronics, 2018, 33, 6199-6210.	5.4	58
9	A Joint Control With Variable ZVS Angles for Dynamic Efficiency Optimization in Wireless Power Transfer System. IEEE Transactions on Power Electronics, 2020, 35, 11064-11081.	5.4	54
10	A Compact Double-Sided Cooling 650V/30A GaN Power Module With Low Parasitic Parameters. IEEE Transactions on Power Electronics, 2022, 37, 426-439.	5.4	31
11	An optimized layout with low parasitic inductances for GaN HEMTs based DC-DC converter. , 2015, , .		25
12	A Highly Integrated PCB Embedded GaN Full-Bridge Module With Ultralow Parasitic Inductance. IEEE Transactions on Power Electronics, 2022, 37, 4161-4173.	5.4	25
13	Coil structure optimization method for improving coupling coefficient of wireless power transfer. , 2015, , .		24
14	An Accurate Datasheet-Based Full-Characteristics Analytical Model of GaN HEMTs for Deadtime Optimization. IEEE Transactions on Power Electronics, 2021, 36, 7942-7955.	5.4	24
15	Adaptive Driving Scheme for ZVS and Minimizing Circulating Current in MHz CRM Converters. IEEE Transactions on Power Electronics, 2021, 36, 3633-3637.	5.4	19
16	Study on efficiency maximization design principles for Wireless Power Transfer system using magnetic resonant coupling. , 2013, , .		18
17	An improved switching loss model for a 650V enhancement-mode GaN transistor. , 2016, , .		18
18	A Double-Sided Cooling 650V/30A GaN Power Module with Low Parasitic Inductance. , 2020, , .		18

#	Article	IF	Citations
19	Current Detection and Control of Synchronous Rectifier in High-Frequency LLC Resonant Converter. IEEE Transactions on Power Electronics, 2022, 37, 3691-3696.	5.4	16
20	Research and realization of a novel active common-mode EMI filter. , 2015, , .		15
21	Characterization and Modeling of Frequency-Dependent On-Resistance for GaN Devices at High Frequencies. IEEE Transactions on Power Electronics, 2020, 35, 4925-4933.	5.4	14
22	Frequency-Modulated Phase Shift Keying Communication for MEPT Control of Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 4954-4959.	5.4	14
23	Analysis and control of post regulation of wireless power transfer systems. , 2016, , .		11
24	A novel dynamic modeling method for wireless power transfer systems. , 2015, , .		9
25	EMI modeling and experiment of a GaN based LLC half-bridge converter. , 2015, , .		7
26	An Isolated Capacitor-Compensated Current Sensing Method for High-Frequency Resonant Converters. IEEE Transactions on Power Electronics, 2019, 34, 6009-6013.	5.4	6
27	Instability analysis of enhancement-mode GaN based half-bridge circuits. , 2017, , .		5
28	Analytical loss model of low voltage enhancement mode GaN HEMTs. , 2014, , .		4
29	A Novel High-Current Planar Inductor With Cooling Fins Based on 3-D Printing. IEEE Transactions on Power Electronics, 2021, 36, 12189-12195.	5.4	4
30	Drive parameters analysis considering the crosstalk effect of silicon carbide MOSFET in a Phase-leg configuration. , 2021, , .		3
31	A Novel Pyramid Winding for PCB Planar Inductors With Fewer Copper Layers and Lower AC Copper Loss. IEEE Transactions on Power Electronics, 2022, 37, 11461-11468.	5.4	3
32	An optimized layout with split bus capacitors in eGaN-based integrated DC-DC converter module. , 2014, , .		2
33	A discrete time-domain model for fast simulation of MMC circuits. , 2016, , .		2
34	Adaptive Tuning Method for ZVS Control in GaN-based MHz CRM Totem-Pole PFC Rectifier. , 2021, , .		2
35	A Double-Sided Cooling GaN Power Module with High Thermal Performance. , 2020, , .		2
36	Design and heat transfer research of GaN-based integrated module. , 2014, , .		1

#	Article	IF	Citations
37	Fixed topology ThÃ©venin equivalent fully detailed model for nonlinear capacitances. Electronics Letters, 2017, 53, 42-44.	0.5	1
38	A pulse density modulation method for ZVS full-bridge converters in wireless power transfer systems. , 2018, , .		1
39	Parasitic Capacitances Characterization of Double-Sided Cooling Power Module Based on GaN Devices. , 2020, , .		1
40	Optimization of Laminated Busbar for Three-Level NPC Topology Using SiC Module. , 2020, , .		1
41	PDM-Based Feedforward Power Compensation for FMPSK Communication in WPT Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2241-2245.	2.2	1
42	Operating area analysis and design of WPT systems with MEPT control. Journal of Power Electronics, 2022, 22, 702-710.	0.9	1
43	Three dimensional integration of GaN-HEMT-based DC-DC converter using planar inductor as a substrate. , 2018, , .		0
44	Design and Weight Optimization of a High-Power-Density DC Power Supply for Aircraft. , 2021, , .		0
45	A Simple Measurement Method of Common Source Inductance for GaN Devices. , 2021, , .		0
46	GaN-Based Full-Bridge CRM PFC with Unipolar Double-Frequency Control Scheme. , 2020, , .		0