

Hongbo Zhao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Physics-Based Modeling of Parasitic Capacitance in Medium-Voltage Filter Inductors. IEEE Transactions on Power Electronics, 2021, 36, 829-843.	7.9	37
2	Rethinking Basic Assumptions for Modeling Parasitic Capacitance in Inductors. IEEE Transactions on Power Electronics, 2022, 37, 8281-8289.	7.9	20
3	Digital Average Voltage/Digital Average Current Predictive Control for Switching DC-DC Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1819-1830.	5.4	19
4	Behavioral Modeling and Analysis of Ground Current in Medium-Voltage Inductors. IEEE Transactions on Power Electronics, 2021, 36, 1236-1241.	7.9	16
5	Demonstration of a 10 kV SiC MOSFET based Medium Voltage Power Stack. , 2020, , .		15
6	Parasitic Capacitance Modeling of Copper-Foiled Medium-Voltage Filter Inductors Considering Fringe Electrical Field. IEEE Transactions on Power Electronics, 2021, 36, 8181-8192.	7.9	15
7	Parasitic Capacitance Modeling of Inductors Without Using the Floating Voltage Potential of Core. IEEE Transactions on Industrial Electronics, 2022, 69, 3214-3222.	7.9	14
8	Modeling and Design of a 1.2 pF Common-Mode Capacitance Transformer for Powering MV SiC MOSFETs Gate Drivers. , 2019, , .		11
9	Loss Prediction of Medium Voltage Power Modules: Trade-offs between Accuracy and Complexity. , 2019, , .		11
10	Digital Average-Ripple-Based Control Techniques for Switching Converters With Fast Transient Performance. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 89-101.	5.4	7
11	A Comparative Study on Parasitic Capacitance in Inductors With Series or Parallel Windings. IEEE Transactions on Power Electronics, 2022, 37, 15140-15151.	7.9	7
12	Behavioral Modeling of Ground Current in Filter Inductors of Medium-Voltage SiC-MOSFET-Based Converters. , 2020, , .		4
13	Unified modelling and dynamical analysis of current-mode controlled single-inductor dual-output switching converter with ramp compensation. IET Power Electronics, 2018, 11, 1297-1305.	2.1	3
14	Short-Circuit Characteristic of Single Gate Driven SiC MOSFET Stack and Its Improvement With Strong Antishort Circuit Fault Capabilities. IEEE Transactions on Power Electronics, 2022, 37, 13577-13586.	7.9	3
15	Identification of the Terminal-to-Core Couplings in Filter Inductors by Using Double-Pulse-Test Setup. , 2020, , .		2
16	Nonlinear modulation for voltage-mode controlled switching converters with fast input transient performance. , 2016, , .		0
17	Digital average voltage control for switching DC-DC converters with improved dual-edge modulation. , 2017, , .		0
18	Stability Analysis of Digital Voltage Ripple-based Controlled Buck Converter with Dual-edge Constant On-time Modulation. , 2018, , .		0