

Di Han

List of Publications by Year in descending order

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44
docs citations

44
times ranked

1382
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Analysis on Conducted CM EMI Emission of Motor Drives: WBG Versus Si Devices. IEEE Transactions on Industrial Electronics, 2017, 64, 8353-8363.	7.9	202
2	Comprehensive Efficiency, Weight, and Volume Comparison of SiC- and Si-Based Bidirectional DC-DC Converters for Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2014, 63, 3001-3010.	6.3	147
3	Reduction of Common Mode Voltage and Conducted EMI Through Three-Phase Inverter Topology. IEEE Transactions on Power Electronics, 2017, 32, 1720-1724.	7.9	131
4	Common-Mode Voltage Cancellation in PWM Motor Drives With Balanced Inverter Topology. IEEE Transactions on Industrial Electronics, 2017, 64, 2683-2688.	7.9	99
5	Comparison Between Output CM Chokes for SiC Drive Operating at 20- and 200-kHz Switching Frequencies. IEEE Transactions on Industry Applications, 2017, 53, 2178-2188.	4.9	97
6	A Review of Integrated Motor Drive and Wide-Bandgap Power Electronics for High-Performance Electro-Hydrostatic Actuators. IEEE Transactions on Transportation Electrification, 2018, 4, 684-693.	7.8	89
7	Comprehensive Study of the Performance of SiC MOSFET-Based Automotive DC-DC Converter Under the Influence of Parasitic Inductance. IEEE Transactions on Industry Applications, 2016, 52, 5100-5111.	4.9	72
8	Deadtime Effect on GaN-Based Synchronous Boost Converter and Analytical Model for Optimal Deadtime Selection. IEEE Transactions on Power Electronics, 2016, 31, 601-612.	7.9	59
9	Modeling of Interior Permanent Magnet Machine Considering Saturation, Cross Coupling, Spatial Harmonics, and Temperature Effects. IEEE Transactions on Transportation Electrification, 2017, 3, 682-693.	7.8	55
10	Analysis of High-Speed PCB With SiC Devices by Investigating Turn-Off Overvoltage and Interconnection Inductance Influence. IEEE Transactions on Transportation Electrification, 2015, 1, 118-125.	7.8	53
11	A Case Study on Common Mode Electromagnetic Interference Characteristics of GaN HEMT and Si MOSFET Power Converters for EV/HEVs. IEEE Transactions on Transportation Electrification, 2017, 3, 168-179.	7.8	52
12	New Configuration of Multifunctional Grid-Connected Inverter to Improve Both Current-Based and Voltage-Based Power Quality. IEEE Transactions on Industry Applications, 2018, 54, 6374-6382.	4.9	52
13	New Method for Common Mode Voltage Cancellation in Motor Drives: Concept, Realization, and Asymmetry Influence. IEEE Transactions on Power Electronics, 2018, 33, 1188-1201.	7.9	49
14	Comparative Evaluation of Conducted Common-Mode EMI in Voltage-Source and Current-Source Inverters using Wide-Bandgap Switches. , 2018, , .		48
15	Analysis of SiC based power electronic inverters for high speed machines. , 2015, , .		41
16	Reviews on grid-connected inverter, utility-scaled battery energy storage system, and vehicle-to-grid application - challenges and opportunities. , 2017, , .		32
17	Reducing reverse conduction and switching losses in GaN HEMT-based high-speed permanent magnet brushless dc motor drive. , 2017, , .		25
18	Efficiency characterization and thermal study of GaN based 1 kW inverter. , 2014, , .		21

#	ARTICLE	IF	CITATIONS
19	Benchmarking of electric and hybrid vehicle electric machines, power electronics, and batteries. , 2015, , .		21
20	Adoption of wide bandgap technology in hybrid/electric vehicles-opportunities and challenges. , 2017, , .		21
21	Understanding the influence of dead-time on GaN based synchronous boost converter. , 2014, , .		18
22	Minimizing switching losses in high switching frequency GaN-based synchronous buck converter with zero-voltage resonant-transition switching. , 2015, , .		17
23	Comparative Performance Analysis of Reference Voltage-Controlled Pulse Width Modulation for High-Speed Single-Phase Brushless DC Motor Drive. IEEE Transactions on Power Electronics, 2018, 33, 4560-4568.	7.9	16
24	Study of the switching performance and EMI signature of SiC MOSFETs under the influence of parasitic inductance in an automotive DC-DC converter. , 2015, , .		15
25	Design of a novel integrated motor-compressor machine with GaN-based inverters. , 2017, , .		14
26	Achieving high-performance electrified actuation system with integrated motor drive and wide bandgap power electronics. , 2017, , .		13
27	Design of Single-Turn Air-Core Integrated Planar Inductor for Improved Thermal Performance of GaN HEMT-Based Synchronous Buck Converter. IEEE Transactions on Industry Applications, 2020, 56, 1543-1552.	4.9	13
28	Comparative performance evaluation of common mode voltage reduction three-phase inverter topologies. , 2018, , .		11
29	GaN-based single phase brushless DC motor drive for high-speed applications. , 2014, , .		10
30	Three-phase common mode inductor design and size minimization. , 2016, , .		10
31	Analysis of high-speed PCB with SiC devices by investigating turn-off overvoltage and interconnection inductance influence. , 2014, , .		7
32	Investigating the Influence of Interconnection Parasitic Inductance on the Performance of SiC Based DC-DC Converters in Hybrid Vehicles. , 2014, , .		6
33	Design of high-speed toroidal winding surface PM machine with SiC-based inverters. , 2016, , .		5
34	Evaluation of a novel common mode EMI reducing inverter topology utilizing wide bandgap devices. , 2017, , .		5
35	Analysis of the influence of temperature variation on performance of flux-switching permanent magnet machines for traction applications. , 2017, , .		5
36	Single-turn Air-core Integrated Planar Inductor for GaN HEMT-based Zero-Voltage Switching Synchronous Buck Converter. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
37	Design of high-speed machines using silicon-carbide based inverters. , 2015, , .		3
38	EMI characterization of a GaN switched-capacitor based partial power RF SEPIC. , 2017, , .		3
39	Zero state common mode voltage control in motor drives through inverter topology. , 2017, , .		3
40	Compensation control algorithm for IPM machines considering temperature effects based on online multi-parameter estimation. , 2017, , .		3
41	A Double-ended Converter System with Two Different DC-buses Using Open Winding Permanent Magnet Machine for Traction Applications. Electric Power Components and Systems, 2017, 45, 1729-1738.	1.8	2
42	Study of stability and power quality of parallel grid-connected inverters for vehicle-to-grid application. , 2015, , .		0
43	Performance evaluations of capacitor-switched PSFB converter with SiC MOSFETs. , 2016, , .		0
44	Analysis of temperature effects on performance of spoke-type interior permanent magnet machines. , 2017, , .		0