

Wenjie

List of Publications by Year in descending order

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123
papers

2,513
citations

218592

26
h-index

206029

48
g-index

123
all docs

123
docs citations

123
times ranked

2126
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	Magnetically Coupled Resonance WPT: Review of Compensation Topologies, Resonator Structures with Misalignment, and EMI Diagnostics. Electronics (Switzerland), 2018, 7, 296.	1.8	107
3	A Multiloop Method for Minimization of Parasitic Inductance in GaN-Based High-Frequency DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 4728-4740.	5.4	104
4	An Active EMI Filtering Technique for Improving Passive Filter Low-Frequency Performance. IEEE Transactions on Electromagnetic Compatibility, 2006, 48, 172-177.	1.4	87
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	Design and Implementation of High Efficiency Control Scheme of Dual Active Bridge Based 10 kV/1 MW Solid State Transformer for PV Application. IEEE Transactions on Power Electronics, 2019, 34, 4223-4238.	5.4	87
7	A Source-Current-Detected Shunt Active Power Filter Control Scheme Based on Vector Resonant Controller. IEEE Transactions on Industry Applications, 2014, 50, 1953-1965.	3.3	82
8	A Compact Gate Control and Voltage-Balancing Circuit for Series-Connected SiC MOSFETs and Its Application in a DC Breaker. IEEE Transactions on Industrial Electronics, 2017, 64, 8299-8309.	5.2	78
9	Dynamic Modeling Based on Coupled Modes for Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2015, 30, 6245-6253.	5.4	75
10	A Hybrid Active Gate Drive for Switching Loss Reduction and Voltage Balancing of Series-Connected IGBTs. IEEE Transactions on Power Electronics, 2017, 32, 7469-7481.	5.4	73
11	A Novel Three-Level CLLC Resonant DC-DC Converter for Bidirectional EV Charger in DC Microgrids. IEEE Transactions on Industrial Electronics, 2021, 68, 2334-2344.	5.2	68
12	A Novel Hybrid Common-Mode EMI Filter With Active Impedance Multiplication. IEEE Transactions on Industrial Electronics, 2011, 58, 1826-1834.	5.2	65
13	An Experimental Study of Common- and Differential-Mode Active EMI Filter Compensation Characteristics. IEEE Transactions on Electromagnetic Compatibility, 2009, 51, 683-691.	1.4	62
14	Advanced Active Gate Drive for Switching Performance Improvement and Overvoltage Protection of High-Power IGBTs. IEEE Transactions on Power Electronics, 2018, 33, 3802-3815.	5.4	58
15	Voltage Suppression in Wire-Bond-Based Multichip Phase-Leg SiC MOSFET Module Using Adjacent Decoupling Concept. IEEE Transactions on Industrial Electronics, 2017, 64, 8235-8246.	5.2	50
16	A Novel NPC Dual-Active-Bridge Converter With Blocking Capacitor for Energy Storage System. IEEE Transactions on Power Electronics, 2019, 34, 10635-10649.	5.4	47
17	Circulating Current Analysis and Suppression for Configured Three-Limb Inductors in Paralleled Three-Level T-Type Converters With Space-Vector Modulation. IEEE Transactions on Power Electronics, 2017, 32, 3338-3354.	5.4	44
18	A Novel Filter Topology With Active Motor CM Impedance Regulator in PWM ASD System. IEEE Transactions on Industrial Electronics, 2014, 61, 6938-6946.	5.2	41

#	ARTICLE	IF	CITATIONS
19	A New Topology of Switched-Capacitor Multilevel Inverter With Eliminating Leakage Current. IEEE Access, 2020, 8, 76951-76965.	2.6	39
20	A Dual-Sided Control Strategy Based on Mode Switching for Efficiency Optimization in Wireless Power Transfer System. IEEE Transactions on Power Electronics, 2021, 36, 8835-8848.	5.4	38
21	Conducted EMI Mitigation Schemes in Isolated Switching-Mode Power Supply Without the Need of a Y-Capacitor. IEEE Transactions on Power Electronics, 2017, 32, 2687-2703.	5.4	36
22	A State of the Art of the Multilevel Inverters with Reduced Count Components. Electronics (Switzerland), 2020, 9, 1924.	1.8	36
23	Switching Transient Analysis for Normally- off GaN Transistor With p-GaN Gate in a Phase-Leg Circuit. IEEE Transactions on Power Electronics, 2019, 34, 3711-3728.	5.4	32
24	Neutral-Point Voltage Analysis and Suppression for NPC Three-Level Photovoltaic Converter in LVRT Operation Under Imbalanced Grid Faults With Selective Hybrid SVPWM Strategy. IEEE Transactions on Power Electronics, 2019, 34, 1334-1355.	5.4	31
25	Novel Hybrid DC Circuit Breaker Based on Series Connection of Thyristors and IGBT Half-Bridge Submodules. IEEE Transactions on Power Electronics, 2021, 36, 1506-1518.	5.4	31
26	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
27	Delay and Decoupling Analysis of a Digital Active EMI Filter Used in Arc Welding Inverter. IEEE Transactions on Power Electronics, 2018, 33, 6710-6722.	5.4	25
28	A Multi-Function Common Mode Choke Based on Active CM EMI Filters for AC/DC Power Converters. IEEE Access, 2019, 7, 43534-43546.	2.6	25
29	High-Efficiency Control Strategy for 10-kV/1-MW Solid-State Transformer in PV Application. IEEE Transactions on Power Electronics, 2020, 35, 11770-11782.	5.4	25
30	Research on a 4000-V-Ultrahigh-Input-Switched-Mode Power Supply Using Series-Connected MOSFETs. IEEE Transactions on Power Electronics, 2018, 33, 5995-6011.	5.4	23
31	Voltage Balancing Control of Series-Connected SiC MOSFETs by Using Energy Recovery Snubber Circuits. IEEE Transactions on Power Electronics, 2020, 35, 10200-10212.	5.4	23
32	A Compact Coupler With Integrated Multiple Decoupled Coils for Wireless Power Transfer System and its Anti-Misalignment Control. IEEE Transactions on Power Electronics, 2022, 37, 12814-12827.	5.4	22
33	A Three-Level Dual-Active-Bridge Converter With Blocking Capacitors for Bidirectional Electric Vehicle Charger. IEEE Access, 2019, 7, 173838-173847.	2.6	20
34	Comprehensive Assessment of Avalanche Operating Boundary of SiC Planar/Trench MOSFET in Cryogenic Applications. IEEE Transactions on Power Electronics, 2021, 36, 6954-6966.	5.4	18
35	A Transient 3-D Thermal Modeling Method for IGBT Modules Considering Uneven Power Losses and Cooling Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3959-3970.	3.7	15
36	Stability Analysis and Improvement for SSCB With Single-Gate Controlled Series-Connected SiC MOSFETs. IEEE Transactions on Industrial Electronics, 2021, 68, 8093-8103.	5.2	14

#	ARTICLE	IF	CITATIONS
37	Common-Mode EMI Mathematical Modeling Based on Inductive Coupling Theory in a Power Module With Parallel-Connected SiC MOSFETs. IEEE Transactions on Power Electronics, 2021, 36, 6644-6661.	5.4	14
38	Design and precise modeling of a novel Digital Active EMI Filter. , 2016, , .		13
39	Free Angular-Positioning Wireless Power Transfer Using a Spherical Joint. Energies, 2018, 11, 3488.	1.6	12
40	Parity-time-symmetric Wireless Power Transfer System Using Switch-mode Nonlinear Gain Element. , 2018, , .		12
41	A Novel Copper Layer-Based Field-to-Trace Coupling Model and EMS Evaluation Method for DSP-Based Control Circuit in MMC-HVDC System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1133-1146.	3.7	12
42	A Multi-Cell 21-Level Hybrid Multilevel Inverter Synthesizes a Reduced Number of Components With Voltage Boosting Property. IEEE Access, 2020, 8, 224439-224451.	2.6	11
43	A Novel Active Voltage Clamping Circuit Topology for Series-Connection of SiC-MOSFETs. IEEE Transactions on Power Electronics, 2021, 36, 3655-3660.	5.4	11
44	Power Flow Calculation of Distribution Network With Multiple Energy Routers. IEEE Access, 2021, 9, 23489-23497.	2.6	11
45	A High Input Voltage Auxiliary Power Supply Utilizing Automatic Balanced MOSFET Stack. IEEE Transactions on Industrial Electronics, 2021, 68, 10654-10665.	5.2	11
46	Economic Dispatch of Grid-Connected Microgrid for Smart Building Considering the Impact of Air Temperature. IEEE Access, 2019, 7, 70332-70342.	2.6	10
47	Comparative Temperature Dependent Evaluation and Analysis of 1.2-kV SiC Power Diodes for Extreme Temperature Applications. IEEE Transactions on Power Electronics, 2020, 35, 13384-13399.	5.4	10
48	A novel balanced winding topology to mitigate EMI without the need for a Y-capacitor. , 2016, , .		9
49	A New Integrated Active EMI Filter Topology With Both CM Noise and DM Noise Attenuation. IEEE Transactions on Power Electronics, 2022, 37, 5466-5478.	5.4	9
50	EMI prediction and filter design for MHz GaN based LLC half-bridge converter. , 2016, , .		8
51	Wireless Power Transfer: Critical Review of Related Standards. , 2018, , .		8
52	EMI Analysis of Full-SiC Integrated Power Module. , 2018, , .		8
53	Design of Active EMI Filters With the Integrated Passive Component. , 2019, , .		8
54	Two-Degree-of-Freedom WPT System Using Cylindrical-Joint Structure for Applications With Movable Parts. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 366-370.	2.2	8

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55	Chip-Level Electrothermal Stress Calculation Method of High-Power IGBT Modules in System-Level Simulation. IEEE Transactions on Power Electronics, 2022, 37, 10546-10561.	5.4	8
56	Investigation of Cascade Connection Method to Improve the Insertion Loss of DM Active EMI Filters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1084-1094.	3.7	7
57	A novel <scp>19L</scp> hybrid multilevel inverter system synthesizes reduced number of switches for hybrid renewable energy applications. International Transactions on Electrical Energy Systems, 2021, 31, e12856.	1.2	7
58	Mathematical Modeling of EMI Spectrum Envelope Based on Switching Transient Behavior. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2497-2515.	3.7	7
59	A Novel Approach to Model and Analyze Uneven Temperature Distribution Among Multichip High-Power Modules and Corresponding Method to Respecify Device SOA. IEEE Transactions on Power Electronics, 2022, 37, 4626-4640.	5.4	7
60	An Improved Physical Model of Power Diode in the Rectifier Circuit. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1203-1218.	3.7	6
61	Modeling and Resonance Damping for the CM Loop of the MLCL-Filtered Grid-Connected Inverter With Variable Inductors Under the Weak Grid Condition. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 310-323.	3.7	6
62	A study of motor-end EMI filter on output common-mode noise suppression in DC-fed motor drive system. , 2013, , .		5
63	A 4000V input auxiliary power supply with series connected SiC MOSFETs for MMC-based HVDC system. , 2016, , .		5
64	Arc welding inverter with embedded Digital Active EMI controller. , 2016, , .		5
65	A control method of digital active EMI filter. , 2017, , .		5
66	Modeling of Acoustic Emission Generated by Filter Capacitors in HVDC Converter Station. IEEE Access, 2019, 7, 102876-102886.	2.6	5
67	A Novel Neutral Point-Based Active EMI Filter for Common Mode Noise Attenuation. IEEE Transactions on Power Electronics, 2022, 37, 10081-10085.	5.4	5
68	On discussion of DC side EMI filter design for conducted noise suppression in photovoltaic system. , 2014, , .		4
69	A novel constant voltage primary-side regulation topology to eliminate auxiliary winding. , 2016, , .		4
70	Analysis of series SiC MOSFETs stack using a single standard gate driver. , 2016, , .		4
71	Common-mode interference study of a auxiliary power supply based on the serialization of SiC MOSFETs for MMC-HVDC system. , 2016, , .		4
72	Energy management of microgrid in smart building considering air temperature impact. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
73	A Passive Component Based Gate Drive Scheme for Negative Gate Voltage Spike Mitigation in a SiC-Based Dual-Active Bridge. , 2018, , .		4
74	Modeling and simulation on overall-train EMI of china standardized high-speed train. , 2018, , .		4
75	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
76	Conducted EMI analysis of double-side LCC compensated WPT system. , 2017, , .		3
77	Modeling the gate driver IC for GaN transistor: A black-box approach. , 2018, , .		3
78	Drive parameters analysis considering the crosstalk effect of silicon carbide MOSFET in a Phase-leg configuration. , 2021, , .		3
79	A step-up Δ type multilevel inverter topology with reduced components counts for renewable energy applications. International Transactions on Electrical Energy Systems, 2021, 31, e13004.	1.2	3
80	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
81	EMI noise cancelation by optimizing transformer design without need for the traditional Y-capacitor. , 2016, , .		2
82	Frequency jitter modulation method for quasi-resonant flyback converter to mitigate EMI. , 2016, , .		2
83	A discrete time-domain model for fast simulation of MMC circuits. , 2016, , .		2
84	Predictive current control method to reduce common-mode interference for three-phase induction motor. , 2016, , .		2
85	A novel driving method based on the integration of pulse transformer for ultra-high voltage input applications. , 2017, , .		2
86	Switching transient analysis for normally-off GaN transistors with p-GaN gate in a phase-leg circuit. , 2017, , .		2
87	Conducted EMI Modeling and Filtering for Multi-load Magnetic Resonant WPT System. , 2018, , .		2
88	An Advanced Design of Power Module with EMI Reduction Method. , 2018, , .		2
89	Design of a Cylindrical Winding Structure for Wireless Power Transfer Used in Rotatory Applications. Electronics (Switzerland), 2020, 9, 526.	1.8	2
90	Modular DC Circuit Breaker With Master-Slave Concept for Gate Driver Simplification: Topology and Implementation. IEEE Transactions on Industrial Electronics, 2022, 69, 8915-8925.	5.2	2

#	ARTICLE	IF	CITATIONS
91	Wireless Power Transfer System for Automatic Revolving Doors. , 2021, , .		2
92	A kind of bydirectional active EMI filter based on double-side sensing network. , 2021, , .		2
93	A Multifrequency Small-Signal Model for the MLCL-Filtered Grid-Connected Inverter Considering the FCE of Nonlinear Inductors. IEEE Transactions on Industrial Electronics, 2023, 70, 4901-4911.	5.2	2
94	Systematic evaluation of hybrid active EMI filter based on equivalent circuit model. , 0, , .		1
95	EMI filter analysis for transformer-less photovoltaic inverter. , 2016, , .		1
96	A 3-D modeling of near field radiated electromagnetic interference for toroidal core. , 2016, , .		1
97	A novel constant current and constant voltage adaptive blanking regulation scheme for primary-side controlled flyback converter. , 2016, , .		1
98	A study of an active EMI filter for high current ACDC converter. , 2017, , .		1
99	High frequency conducted EMI modeling of a series-series resonant WPT system. , 2017, , .		1
100	A layout method of passive EMI filter. , 2017, , .		1
101	Study on the influence of frequency splitting of a WPT system on high frequency conducted EMI. , 2017, , .		1
102	Analysis and Suppression of Common-mode EMI in Three-phase Vienna PFC Circuit. , 2018, , .		1
103	A New Approach for Improving Stability of Active CM EMI Filters for AC/DC Power Converters. , 2018, , .		1
104	Design of Three-phase Vienna PFC Circuit With Integral Improved PI Controller. , 2018, , .		1
105	Design, Modeling, and Optimization of a Coaxial Cable-Embedded Flexible Inductor for Wearable Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1691-1702.	3.7	1
106	Modeling and Analysis of Active EMI Filters with Cascade Connection to Improve the Insertion loss. , 2021, , .		1
107	The effectiveness comparison of AEF with different sensing method in High Power Converters. , 2020, , .		1
108	Single Phase Nine-Level Inverter For Grid Connected Hybrid Renewable Energy Sources. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
109	Design of Coaxial WPT Coils for Linear and Rotational Movement-Based Applications. , 2020, , .		1
110	EMI Prediction of Future Device GaN with Reverse Conduction Characteristic in HVDC System. , 2020, , .		1
111	Common-Mode Resonance Suppression Strategy for 3-Level Grid-Connected Inverter with the ILCL Filter. , 2020, , .		1
112	Investigation into the use of complex wavelets for analyzing of switching noise in SMPS. , 0, , .		0
113	A 3-D near-field modeling of different winding modes for electromagnetic interference. , 2017, , .		0
114	Reduction of common-mode interference under different working modes of induction machine based on improved predictive torque control method. , 2017, , .		0
115	Design of Near Field Shielding Strategy by Theoretical Calculation for a Multi-load WPT System. , 2019, , .		0
116	DM Interference Propagation Mathematical Modeling in SiC Wirebond Multichip Power Module. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2077-2081.	2.2	0
117	Modeling and Stability Analysis of Digital EMI Filter. , 2021, , .		0
118	Bio-Inspired Joint for a Movable Wireless Power Transfer. , 2019, , .		0
119	A Simple Measurement Method of Common Source Inductance for GaN Devices. , 2021, , .		0
120	Variable Resonant and Switching Frequency Charging Control Strategy of LCC Converter with Wide Range Load. , 2021, , .		0
121	Design of Wireless Power Transfer Coils for High Efficiency and Low Leakage Magnetic Fields. , 2020, , .		0
122	Impedance Modeling of CLLC Converter and Stability Analysis In the DC System. , 2020, , .		0
123	A zero voltage switching range optimization strategy for NPC Dual-Active-Bridge Converter. , 2020, , .		0