Huai Wang

List of Publications by Year in descending order

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322 papers	10,403 citations	70961 41 h-index	46693 89 g-index
327 all docs	327 docs citations	327 times ranked	5466 citing authors

#	Article	IF	Citations
1	Reliability of Capacitors for DC-Link Applications in Power Electronic Converters–An Overview. IEEE Transactions on Industry Applications, 2014, 50, 3569-3578.	3.3	999
2	Transitioning to Physics-of-Failure as a Reliability Driver in Power Electronics. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 97-114.	3.7	681
3	Toward Reliable Power Electronics: Challenges, Design Tools, and Opportunities. IEEE Industrial Electronics Magazine, 2013, 7, 17-26.	2.3	668
4	An Overview of Artificial Intelligence Applications for Power Electronics. IEEE Transactions on Power Electronics, 2021, 36, 4633-4658.	5.4	354
5	Low-Voltage Ride-Through of Single-Phase Transformerless Photovoltaic Inverters. IEEE Transactions on Industry Applications, 2014, 50, 1942-1952.	3.3	288
6	Wide-Scale Adoption of Photovoltaic Energy: Grid Code Modifications Are Explored in the Distribution Grid. IEEE Industry Applications Magazine, 2015, 21, 21-31.	0.3	220
7	Design for reliability of power electronic systems. , 2012, , .		210
8	Reactive Power Injection Strategies for Single-Phase Photovoltaic Systems Considering Grid Requirements. IEEE Transactions on Industry Applications, 2014, 50, 4065-4076.	3.3	207
9	A Robust Passive Damping Method for LLCL-Filter-Based Grid-Tied Inverters to Minimize the Effect of Grid Harmonic Voltages. IEEE Transactions on Power Electronics, 2014, 29, 3279-3289.	5.4	201
10	Use of a Series Voltage Compensator for Reduction of the DC-Link Capacitance in a Capacitor-Supported System. IEEE Transactions on Power Electronics, 2014, 29, 1163-1175.	5.4	189
11	A Review of the Condition Monitoring of Capacitors in Power Electronic Converters. IEEE Transactions on Industry Applications, 2016, 52, 4976-4989.	3.3	182
12	Reliability Oriented Design Tool For the New Generation of Grid Connected PV-Inverters. IEEE Transactions on Power Electronics, 2015, 30, 2635-2644.	5.4	157
13	Review on reliability of supercapacitors in energy storage applications. Applied Energy, 2020, 278, 115436.	5.1	156
14	A Hybrid Power Control Concept for PV Inverters With Reduced Thermal Loading. IEEE Transactions on Power Electronics, 2014, 29, 6271-6275.	5.4	152
15	Power control flexibilities for grid–connected multi–functional photovoltaic inverters. IET Renewable Power Generation, 2016, 10, 504-513.	1.7	150
16	Catastrophic failure and fault-tolerant design of IGBT power electronic converters - an overview. , 2013, , .		145
17	Mission Profile Based System-Level Reliability Analysis of DC/DC Converters for a Backup Power Application. IEEE Transactions on Power Electronics, 2018, 33, 8030-8039.	5.4	144
18	Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2015, 30, 3912-3924.	5.4	142

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19	New Approaches to Reliability Assessment: Using physics-of-failure for prediction and design in power electronics systems. IEEE Power Electronics Magazine, 2016, 3, 28-41.	0.6	132
20	Prediction of Bond Wire Fatigue of IGBTs in a PV Inverter under a Long-Term Operation. IEEE Transactions on Power Electronics, 2015, , 1-1.	5.4	128
21	A Digital Twin Based Estimation Method for Health Indicators of DCâ€“DC Converters. IEEE Transactions on Power Electronics, 2021, 36, 2105-2118.	5.4	121
22	Lifetime Estimation of DC-Link Capacitors in Adjustable Speed Drives Under Grid Voltage Unbalances. IEEE Transactions on Power Electronics, 2019, 34, 4064-4078.	5.4	118
23	An Overview of Condition Monitoring Techniques for Capacitors in DC-Link Applications. IEEE Transactions on Power Electronics, 2021, 36, 3692-3716.	5.4	111
24	On the Stability of Power Electronics-Dominated Systems: Challenges and Potential Solutions. IEEE Transactions on Industry Applications, 2019, 55, 7657-7670.	3.3	109
25	Benchmarking of Constant Power Generation Strategies for Single-Phase Grid-Connected Photovoltaic Systems. IEEE Transactions on Industry Applications, 2018, 54, 447-457.	3.3	96
26	A Temperature-Dependent Thermal Model of IGBT Modules Suitable for Circuit-Level Simulations. IEEE Transactions on Industry Applications, 2016, 52, 3306-3314.	3.3	85
27	Simplified Thermal Modeling for IGBT Modules With Periodic Power Loss Profiles in Modular Multilevel Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 2323-2332.	5.2	85
28	An Overview of Capacitive DC-Links-Topology Derivation and Scalability Analysis. IEEE Transactions on Power Electronics, 2020, 35, 1805-1829.	5.4	83
29	Reliability of Power Electronic Systems for EV/HEV Applications. Proceedings of the IEEE, 2021, 109, 1060-1076.	16.4	80
30	A ZCS Current-Fed Full-Bridge PWM Converter With Self-Adaptable Soft-Switching Snubber Energy. IEEE Transactions on Power Electronics, 2009, 24, 1977-1991.	5.4	75
31	Analysis and Mitigation of Dead-Time Harmonics in the Single-Phase Full-Bridge PWM Converter With Repetitive Controllers. IEEE Transactions on Industry Applications, 2018, 54, 5343-5354.	3.3	72
32	A Dual Active Bridge Converter With an Extended High-Efficiency Range by DC Blocking Capacitor Voltage Control. IEEE Transactions on Power Electronics, 2018, 33, 5949-5966.	5.4	71
33	Constant power generation of photovoltaic systems considering the distributed grid capacity. , 2014, , .		67
34	A Two-Terminal Active Capacitor. IEEE Transactions on Power Electronics, 2017, 32, 5893-5896.	5.4	67
35	Wear-Out Failure Analysis of an Impedance-Source PV Microinverter Based on System-Level Electrothermal Modeling. IEEE Transactions on Industrial Electronics, 2019, 66, 3914-3927.	5.2	67
36	Reliability of Power Electronic Converter Systems. , 2015, , .		66

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37	A Bidirectional Resonant DCâ€“DC Converter Suitable for Wide Voltage Gain Range. IEEE Transactions on Power Electronics, 2018, 33, 2957-2975.	5.4	63
38	Suggested grid code modifications to ensure wide-scale adoption of photovoltaic energy in distributed power generation systems. , 2013, , .		62
39	An Improved Stray Capacitance Model for Inductors. IEEE Transactions on Power Electronics, 2019, 34, 11153-11170.	5.4	61
40	A 1-MHz Series Resonant DCâ€“DC Converter With a Dual-Mode Rectifier for PV Microinverters. IEEE Transactions on Power Electronics, 2019, 34, 6544-6564.	5.4	56
41	Power Electronics Reliability: State of the Art and Outlook. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6476-6493.	3.7	55
42	Mission profile based multi-disciplinary analysis of power modules in single-phase transformerless photovoltaic inverters. , 2013, , .		53
43	Mission-Profile-Based System-Level Reliability Analysis in DC Microgrids. IEEE Transactions on Industry Applications, 2019, 55, 5055-5067.	3.3	51
44	Mission Profile-Based System-Level Reliability Prediction Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2020, 35, 6916-6930.	5.4	50
45	A Structure-Reconfigurable Series Resonant DCâ€“DC Converter With Wide-Input and Configurable-Output Voltages. IEEE Transactions on Industry Applications, 2019, 55, 1752-1764.	3.3	49
46	Power cycling test and failure analysis of molded Intelligent Power IGBT Module under different temperature swing durations. Microelectronics Reliability, 2016, 64, 403-408.	0.9	48
47	Thermal Modeling and Design Optimization of PCB Vias and Pads. IEEE Transactions on Power Electronics, 2020, 35, 882-900.	5.4	45
48	Enabling Data-Driven Condition Monitoring of Power Electronic Systems With Artificial Intelligence: Concepts, Tools, and Developments. IEEE Power Electronics Magazine, 2021, 8, 18-27.	0.6	44
49	Impact of lifetime model selections on the reliability prediction of IGBT modules in modular multilevel converters. , 2017, , .		44
50	Single-Phase Bridgeless PFC Topology Derivation and Performance Benchmarking. IEEE Transactions on Power Electronics, 2020, 35, 9238-9250.	5.4	43
51	Condition monitoring for DC-link capacitors based on artificial neural network algorithm. , 2015, , .		42
52	Degradation testing and failure analysis of DC film capacitors under high humidity conditions. Microelectronics Reliability, 2015, 55, 2007-2011.	0.9	41
53	Real Field Mission Profile Oriented Design of a SiC-Based PV-Inverter Application. IEEE Transactions on Industry Applications, 2014, 50, 4082-4089.	3.3	40
54	Design for Reliability of Power Electronic Systems. , 2018, , 1423-1440.		38

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55	Asymmetrical Reactive Power Capability of Modular Multilevel Cascade Converter Based STATCOMs for Offshore Wind Farm. IEEE Transactions on Power Electronics, 2019, 34, 5147-5164.	5.4	38
56	Condition Monitoring for Submodule Capacitors in Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2019, 34, 10403-10407.	5.4	38
57	Sensitivity Analysis of Inductive Power Transfer Systems With Voltage-Fed Compensation Topologies. IEEE Transactions on Vehicular Technology, 2019, 68, 4502-4513.	3.9	38
58	Reliability-Oriented Optimization of the LC Filter in a Buck DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 6323-6337.	5.4	35
59	A Composite Failure Precursor for Condition Monitoring and Remaining Useful Life Prediction of Discrete Power Devices. IEEE Transactions on Industrial Informatics, 2021, 17, 688-698.	7.2	35
60	A High-Voltage ZVZCS DC--DC Converter With Low Voltage Stress. IEEE Transactions on Power Electronics, 2008, 23, 2630-2647.	5.4	33
61	Capacitor Condition Monitoring Based on the DC-Side Start-Up of Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2020, 35, 5589-5593.	5.4	33
62	Capacitance estimation algorithm based on DC-link voltage harmonics using artificial neural network in three-phase motor drive systems. , 2017, , .		32
63	Protection Scheme for Modular Multilevel Converters Under Diode Open-Circuit Faults. IEEE Transactions on Power Electronics, 2018, 33, 2866-2877.	5.4	32
64	A System Engineering Approach Using FMEA and Bayesian Network for Risk Analysisâ€"A Case Study. Sustainability, 2020, 12, 77.	1.6	31
65	Bridgeless PFC Topology Simplification and Design for Performance Benchmarking. IEEE Transactions on Power Electronics, 2021, 36, 5398-5414.	5.4	31
66	Overview of catastrophic failures of freewheeling diodes in power electronic circuits. Microelectronics Reliability, 2013, 53, 1788-1792.	0.9	30
67	Artificial Neural Network based DC-link capacitance estimation in a diode-bridge front-end inverter system. , 2017, , .		30
68	The Impact of Topology and Mission Profile on the Reliability of Boost-type Converters in PV Applications. , 2018, , .		29
69	Artificial Intelligence-Aided Thermal Model Considering Cross-Coupling Effects. IEEE Transactions on Power Electronics, 2020, 35, 9998-10002.	5.4	29
70	A reliability-oriented design method for power electronic converters. , 2013, , .		28
71	A novel electro-thermal model for wide bandgap semiconductor based devices. , 2013, , .		28
72	Design for reliability in power electronics in renewable energy systems – status and future. , 2013, , .		28

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73	Harmonics mitigation of dead time effects in PWM converters using a repetitive controller. , 2015, , .		28
74	A Lifetime Prediction Method for LEDs Considering Real Mission Profiles. IEEE Transactions on Power Electronics, 2017, 32, 8718-8727.	5.4	28
75	A Novel Type-2 Fuzzy Logic for Improved Risk Analysis of Proton Exchange Membrane Fuel Cells in Marine Power Systems Application. Energies, 2018, 11, 721.	1.6	28
76	Reliability of capacitors for DC-link applications — An overview. , 2013, , .		27
77	A humidity-dependent lifetime derating factor for DC film capacitors. , 2015, , .		27
78	Reliability-oriented design and analysis of input capacitors in single-phase transformer-less photovoltaic inverters. , 2013, , .		26
79	Instantaneous thermal modeling of the DC-link capacitor in PhotoVoltaic systems. , 2015, , .		26
80	Modeling framework of voltage-source converters based on equivalence with synchronous generator. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1291-1305.	3.3	26
81	Model-Based Design and Optimization of Hybrid DC-Link Capacitor Banks. IEEE Transactions on Power Electronics, 2020, 35, 8910-8925.	5.4	26
82	Comprehensive investigation on current imbalance among parallel chips inside MW-scale IGBT power modules. , 2015, , .		25
83	A Reference Submodule Based Capacitor Condition Monitoring Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2020, 35, 6691-6696.	5.4	25
84	A Class of High-Input Low-Output Voltage Single-Step Converters with Low Voltage Stress on the Primary-Side Switches and High Output Current Capacity. IEEE Transactions on Power Electronics, 2011, 26, 1659-1672.	5.4	24
85	Investigation into the control methods to reduce the DC-link capacitor ripple current in a back-to-back converter. , 2014, , .		24
86	Reduced junction temperature control during lowâ€voltage rideâ€through for singleâ€phase photovoltaic inverters. IET Power Electronics, 2014, 7, 2050-2059.	1.5	24
87	The impact of grid unbalances on the reliability of DC-link capacitors in a motor drive. , 2017, , .		24
88	Application of Digital Twin Concept in Condition Monitoring for DC-DC Converter. , 2019, , .		24
89	A Review on Electrothermal Modeling of Supercapacitors for Energy Storage Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1677-1690.	3.7	23
90	On the Practical Design of a Two-Terminal Active Capacitor. IEEE Transactions on Power Electronics, 2019, 34, 10006-10020.	5.4	23

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91	A Thermal Modeling Method Considering Ambient Temperature Dynamics. IEEE Transactions on Power Electronics, 2020, 35, 6-9.	5.4	23
92	An Improved di/dt-RCD Detection for Short-Circuit Protection of SiC mosfet. IEEE Transactions on Power Electronics, 2021, 36, 12-17.	5.4	23
93	Impact of Modulation Strategies on the Reliability and Harmonics of Impedance-Source Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3968-3981.	3.7	22
94	Thermal Characterization of Silicon Carbide MOSFET Module Suitable for High-Temperature Computationally Efficient Thermal-Profile Prediction. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3947-3958.	3.7	22
95	A New Concept of High-Voltage DCâ€“DC Conversion Using Asymmetric Voltage Distribution on the Switch Pairs and Hybrid ZVSâ€“ZCS Scheme. IEEE Transactions on Power Electronics, 2012, 27, 2242-2259.	5.4	21
96	The impact of gate-driver parameters variation and device degradation in the PV-inverter lifetime. , 2014, , .		21
97	Reactive power injection strategies for single-phase photovoltaic systems considering grid requirements. , 2014, , .		21
98	A Simplified On-State Voltage Measurement Circuit for Power Semiconductor Devices. IEEE Transactions on Power Electronics, 2021, 36, 10993-10997.	5.4	21
99	Capacitance estimation for dc-link capacitors in a back-to-back converter based on Artificial Neural Network algorithm. , 2016, , .		20
100	Lifetime Prediction of DC-Link Capacitors in Multiple Drives System Based on Simplified Analytical Modeling. IEEE Transactions on Power Electronics, 2021, 36, 844-860.	5.4	20
101	A Converter-Level on-State Voltage Measurement Method for Power Semiconductor Devices. IEEE Transactions on Power Electronics, 2021, 36, 1220-1224.	5.4	20
102	Comprehensive evaluation on efficiency and thermal loading of associated Si and SiC based PV inverter applications. , 2013, , .		19
103	Wide-band gap devices in PV systems - opportunities and challenges. , 2014, , .		19
104	Improving the Effectiveness of Testing Pervasive Software via Context Diversity. ACM Transactions on Autonomous and Adaptive Systems, 2014, 9, 1-28.	0.4	19
105	Parameter Estimation of Power Electronic Converters With Physics-Informed Machine Learning. IEEE Transactions on Power Electronics, 2022, 37, 11567-11578.	5.4	19
106	Benchmarking of constant power generation strategies for single-phase grid-connected Photovoltaic systems. , 2016, , .		18
107	System-level reliability enhancement of DC/DC stage in a single-phase PV inverter. Microelectronics Reliability, 2018, 88-90, 1030-1035.	0.9	18
108	Design for reliability and robustness tool platform for power electronic systems â€” Study case on motor drive applications. , 2018, , .		18

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109	A DC-Link Capacitor Voltage Ripple Reduction Method for a Modular Multilevel Cascade Converter With Single Delta Bridge Cells. IEEE Transactions on Industry Applications, 2019, 55, 6115-6126.	3.3	18
110	A novel concept to reduce the DC-link capacitor in PFC front-end power conversion systems. , 2012, , .		17
111	A design tool to study the impact of mission-profile on the reliability of SiC-based PV-inverter devices. Microelectronics Reliability, 2014, 54, 1655-1660.	0.9	17
112	Study on Oscillations During Short Circuit of MW-Scale IGBT Power Modules by Means of a 6-kA/1.1-kV Nondestructive Testing System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 756-765.	3.7	17
113	A Two-Terminal Active Inductor With Minimum Apparent Power for the Auxiliary Circuit. IEEE Transactions on Power Electronics, 2019, 34, 1013-1016.	5.4	17
114	A Viable Mission Profile Emulator for Power Modules in Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2019, 34, 11580-11593.	5.4	17
115	Mission profile translation to capacitor stresses in grid-connected photovoltaic systems. , 2014, , .		16
116	Simplified Multi-time Scale Thermal Model Considering Thermal Coupling in IGBT Modules. , 2019, , .		16
117	Improved reliability of single-phase PV inverters by limiting the maximum feed-in power. , 2014, , .		15
118	A temperature-dependent thermal model of IGBT modules suitable for circuit-level simulations. , 2014, , .		15
119	System-level reliability assessment of power stage in fuel cell application. , 2016, , .		15
120	A reconfigurable series resonant DC-DC converter for wide-input and wide-output voltages. , 2017, , .		15
121	Health State Estimation and Remaining Useful Life Prediction of Power Devices Subject to Noisy and Aperiodic Condition Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	2.4	15
122	Reduction of DC-link capacitor in case of cascade multilevel converters by means of reactive power control. , 2014, , .		14
123	Lifetime estimation of electrolytic capacitors in a fuel cell power converter at various confidence levels. , 2016, , .		14
124	The impact of mission profile models on the predicted lifetime of IGBT modules in the modular multilevel converter. , 2017, , .		14
125	Mission Profile Based Power Converter Reliability Analysis in a DC Power Electronic Based Power System. , 2018, , .		14
126	A Simplification Method for Power Device Thermal Modeling With Quantitative Error Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1649-1658.	3.7	14

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127	Reactive Power Impacts on LCL Filter Capacitor Lifetime in Grid-Connected Inverter. IEEE Open Journal of Power Electronics, 2020, 1, 139-148.	4.0	14
128	Design for Accelerated Testing of DC-Link Capacitors in Photovoltaic Inverters Based on Mission Profiles. IEEE Transactions on Industry Applications, 2021, 57, 741-753.	3.3	14
129	High Power Factor Bridgeless Integrated Buck-Type PFC Converter With Wide Output Voltage Range. IEEE Transactions on Power Electronics, 2022, 37, 12577-12590.	5.4	14
130	An Icepak-PSpice co-simulation method to study the impact of bond wires fatigue on the current and temperature distribution of IGBT modules under short-circuit. , 2014, , .		13
131	Mission profile based sizing of IGBT chip area for PV inverter applications. , 2016, , .		13
132	Degradation effect on reliability evaluation of aluminum electrolytic capacitor in backup power converter. , 2017, , .		13
133	System-Level Lifetime Prediction for LED Lighting Applications Considering Thermal Coupling Between LED Sources and Drivers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1860-1870.	3.7	13
134	Computational-Efficient Thermal Estimation for IGBT Modules Under Periodic Power Loss Profiles in Modular Multilevel Converters. IEEE Transactions on Industry Applications, 2019, 55, 4984-4992.	3.3	13
135	Weaving Context Sensitivity into Test Suite Construction. , 2009, , .		12
136	Study of a new technique to reduce the dc-link capacitor in a power electronic system by using a series voltage compensator. , 2011, , .		12
137	Efficiency Enhancement of Bridgeless Buck-Boost PFC Converter with Unity PF and DC Split to Reduce Voltage Stresses. , 2018, , .		12
138	An analytical circuit based nonlinear thermal model for capacitor banks. Microelectronics Reliability, 2018, 88-90, 524-527.	0.9	12
139	Degradation modeling for reliability estimation of DC film capacitors subject to humidity acceleration. Microelectronics Reliability, 2019, 100-101, 113401.	0.9	12
140	The Faraday Shields Loss of Transformers. IEEE Transactions on Power Electronics, 2020, 35, 12194-12206.	5.4	12
141	Safe Operating Area of DC-Link Film Capacitors. IEEE Transactions on Power Electronics, 2021, 36, 11014-11018.	5.4	12
142	Electro-thermal modeling of high power IGBT module short-circuits with experimental validation. , 2015, , .		11
143	Lifetime benchmarking of two DC-link passive filtering configurations in adjustable speed drives. , 2018, , .		11
144	Balanced Conduction Loss Distribution among SMs in Modular Multilevel Converters. , 2018, , .		11

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145	Submodule Level Power Loss Balancing Control for Modular Multilevel Converters. , 2018, , .		11
146	Reliability Assessment of Hybrid Capacitor Bank Using Electrolytic- and Film-Capacitors in Three-Level Neutral-Point-Clamped Inverters. , 2019, , .		11
147	A Cost-Constrained Active Capacitor for a Single-Phase Inverter. IEEE Transactions on Power Electronics, 2020, 35, 6746-6760.	5.4	11
148	On the Explainability of Black Box Data-Driven Controllers for Power Electronic Converters. , 2021, , .		11
149	Prediction of bond wire fatigue of IGBTs in a PV inverter under long-term operation. , 2015, , .		10
150	Cost assessment of three power decoupling methods in a single-phase power converter with a reliability-oriented design procedure. , 2016, , .		10
151	On Power Electronized Power Systems: Challenges and Solutions. , 2018, , .		10
152	Reduced-Order Thermal Modeling for Photovoltaic Inverters Considering Mission Profile Dynamics. IEEE Open Journal of Power Electronics, 2020, 1, 407-419.	4.0	10
153	Stand-Alone Operation of Distributed Generation Systems With Improved Harmonic Elimination Scheme. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6924-6934.	3.7	10
154	A Self-Power Method for a Converter-Level on-State Voltage Measurement Concept. IEEE Transactions on Power Electronics, 2021, 36, 8743-8751.	5.4	10
155	Modeling and Analysis of a Current-Fed ZCS Full-Bridge DC/DC Converter with Adaptive Soft-Switching Energy. , 2009, , .		9
156	A unified derivation of second-order switching surface for boundary control of DC-DC converters. , 2009, , .		9
157	Real field mission profile oriented design of a SiC-based PV-inverter application. , 2013, , .		9
158	Low voltage ride-through of single-phase transformerless photovoltaic inverters. , 2013, , .		9
159	Stability analysis and dynamic response of a DC-link module with a series voltage compensator. , 2013, , .		9
160	Reliability Assessment of Transformerless PV Inverters considering Mission Profiles. International Journal of Photoenergy, 2015, 2015, 1-10.	1.4	9
161	A review of the condition monitoring of capacitors in power electronic converters. , 2015, , .		9
162	Analytical model for LLC resonant converter with variable duty-cycle control. , 2016, , .		9

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163	Impact of Long-Term Mission Profile Sampling Rate on the Reliability Evaluation of Power Electronics in Photovoltaic Applications. , 2018, , .		9
164	Parasitics of Orthocyclic Windings in Inductors and Transformers. IEEE Transactions on Power Electronics, 2021, 36, 1994-2008.	5.4	9
165	Hold-up time analysis of a dc-link module with a series voltage compensator. , 2012, , .		8
166	The feasibility study on thermal loading control of wind power converters with a flexible switching frequency. , 2015, , .		8
167	Reliability oriented design of a grid-connected photovoltaic microinverter. , 2017, , .		8
168	A method for hotspot temperature estimation of aluminum electrolytic capacitors. , 2017, , .		8
169	Design for reliability in renewable energy systems. , 2017, , .		8
170	A Temperature-dependent Thermal Model of Silicon Carbide MOSFET Module for Long-term Reliability Assessment. , 2018, , .		8
171	Thermal Coupling and Network Modeling for Planar Transformers. , 2018, , .		8
172	Cost-Volume-Reliability Pareto Optimization of a Photovoltaic Microinverter. , 2019, , .		8
173	Dissipation Factor as a Degradation Indicator for Electrolytic Capacitors. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1035-1044.	3.7	8
174	A ZCS full-bridge PWM converter with self-adaptable soft-switching snubber energy. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	7
175	A hybrid damping method for LLCL-filter based grid-tied inverter with a digital filter and an RC parallel passive damper. , 2013, , .		7
176	Investigation on the short-circuit behavior of an aged IGBT module through a 6 kA/1.1 kV non-destructive testing equipment. , 2014, , .		7
177	Real mission profile based lifetime estimation of fuel-cell power converter. , 2016, , .		7
178	An AC resistance optimization method applicable for inductor and transformer windings with full layers and partial layers. , 2017, , .		7
179	An analytical turn-on power loss model for 650-V GaN eHEMTs. , 2018, , .		7
180	Thermal resistance modelling and design optimization of PCB vias. Microelectronics Reliability, 2018, 88-90, 1118-1123.	0.9	7

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181	First Observations in Degradation Testing of Planar Magnetics. , 2019, , .		7
182	Analytical Modeling of 9-150 kHz EMI in Single-Phase PFC Converter. , 2019, , .		7
183	A Mission-Profile-Based Tool for the Reliability Evaluation of Power Semiconductor Devices in Hybrid Electric Vehicles. , 2020, , .		7
184	Wear-out failure of an IGBT module in motor drives due to uneven thermal impedance of power semiconductor devices. Microelectronics Reliability, 2020, 114, 113800.	0.9	7
185	A Voltage-Based Multiple Fault Diagnosis Approach for Cascaded H-Bridge Multilevel Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5092-5106.	3.7	7
186	A Robust Testing Method for DC and AC Capacitors With Minimum Required Power Supply. IEEE Transactions on Power Electronics, 2022, 37, 4942-4946.	5.4	7
187	An On-Line Calibration Method for TSEP-Based Junction Temperature Estimation. IEEE Transactions on Industrial Electronics, 2022, 69, 13616-13624.	5.2	7
188	A Mixed Conduction Mode-Controlled Bridgeless Boost PFC Converter and Its Mission Profile-Based Reliability Analysis. IEEE Transactions on Power Electronics, 2022, 37, 9674-9686.	5.4	7
189	Design for Reliability of Power Electronics in Renewable Energy Systems. Green Energy and Technology, 2014, , 295-338.	0.4	6
190	A generic topology derivation method for single-phase converters with active capacitive DC-links. , 2016, , .		6
191	A lifetime prediction method for LEDs considering mission profiles. , 2016, , .		6
192	Reactive power compensation capability of a STATCOM based on two types of Modular Multilevel Cascade Converters for offshore wind application. , 2017, , .		6
193	A voltage control method for an active capacitive DC-link module with series-connected circuit. , 2017, , .		6
194	Mission Profile-based Accelerated Testing of DC-link Capacitors in Photovoltaic Inverters. , 2019, , .		6
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