

Huai Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

261
papers

5,848
citations

36
h-index

69
g-index

327
ext. papers

8,204
ext. citations

4.9
avg, IF

6.71
L-index

#	Paper	IF	Citations
261	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 3569-3578	4.3	602
260	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2014 , 2, 97-114	5.6	433
259	. <i>IEEE Industrial Electronics Magazine</i> , 2013 , 7, 17-26	6.2	433
258	Low-Voltage Ride-Through of Single-Phase Transformerless Photovoltaic Inverters. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 1942-1952	4.3	213
257	Wide-Scale Adoption of Photovoltaic Energy: Grid Code Modifications Are Explored in the Distribution Grid. <i>IEEE Industry Applications Magazine</i> , 2015 , 21, 21-31	0.6	156
256	. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 4065-4076	4.3	154
255	Use of a Series Voltage Compensator for Reduction of the DC-Link Capacitance in a Capacitor-Supported System. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 1163-1175	7.2	139
254	Design for reliability of power electronic systems 2012 ,		127
253	A Hybrid Power Control Concept for PV Inverters With Reduced Thermal Loading. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 6271-6275	7.2	113
252	A Robust Passive Damping Method for LLCL-Filter-Based Grid-Tied Inverters to Minimize the Effect of Grid Harmonic Voltages. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3279-3289	7.2	107
251	Reliability Oriented Design Tool For the New Generation of Grid Connected PV-Inverters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 2635-2644	7.2	106
250	Power control flexibilities for grid-connected multi-functional photovoltaic inverters. <i>IET Renewable Power Generation</i> , 2016 , 10, 504-513	2.9	104
249	Frequency Adaptive Selective Harmonic Control for Grid-Connected Inverters. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3912-3924	7.2	103
248	A Review of the Condition Monitoring of Capacitors in Power Electronic Converters. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 4976-4989	4.3	102
247	An Overview of Artificial Intelligence Applications for Power Electronics. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4633-4658	7.2	94
246	Catastrophic failure and fault-tolerant design of IGBT power electronic converters - an overview 2013 ,		92
245	New Approaches to Reliability Assessment: Using physics-of-failure for prediction and design in power electronics systems. <i>IEEE Power Electronics Magazine</i> , 2016 , 3, 28-41	1.5	88

244	. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8030-8039	7.2	82
243	Prediction of Bond Wire Fatigue of IGBTs in a PV Inverter Under a Long-Term Operation. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	78
242	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4064-4078	7.2	64
241	Review on reliability of supercapacitors in energy storage applications. <i>Applied Energy</i> , 2020 , 278, 115436.	6.7	59
240	. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 447-457	4.3	56
239	A ZCS Current-Fed Full-Bridge PWM Converter With Self-Adaptable Soft-Switching Snubber Energy. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 1977-1991	7.2	56
238	Simplified Thermal Modeling for IGBT Modules With Periodic Power Loss Profiles in Modular Multilevel Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2323-2332	8.9	51
237	A Temperature-Dependent Thermal Model of IGBT Modules Suitable for Circuit-Level Simulations. <i>IEEE Transactions on Industry Applications</i> , 2016 , 52, 3306-3314	4.3	50
236	Suggested grid code modifications to ensure wide-scale adoption of photovoltaic energy in distributed power generation systems 2013 ,		43
235	A Two-Terminal Active Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5893-5896	7.2	42
234	A Bidirectional Resonant DC/DC Converter Suitable for Wide Voltage Gain Range. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2957-2975	7.2	41
233	A Dual Active Bridge Converter With an Extended High-Efficiency Range by DC Blocking Capacitor Voltage Control. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5949-5966	7.2	41
232	On the Stability of Power Electronics-Dominated Systems: Challenges and Potential Solutions. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7657-7670	4.3	40
231	Constant power generation of photovoltaic systems considering the distributed grid capacity 2014 ,		40
230	Analysis and Mitigation of Dead-Time Harmonics in the Single-Phase Full-Bridge PWM Converter With Repetitive Controllers. <i>IEEE Transactions on Industry Applications</i> , 2018 , 54, 5343-5354	4.3	39
229	Reliability of Power Electronic Converter Systems 2015 ,		39
228	An Overview of Condition Monitoring Techniques for Capacitors in DC-Link Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3692-3716	7.2	39
227	Wear-Out Failure Analysis of an Impedance-Source PV Microinverter Based on System-Level Electrothermal Modeling. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3914-3927	8.9	37

226	Mission profile based multi-disciplinary analysis of power modules in single-phase transformerless photovoltaic inverters 2013 ,		37
225	Real Field Mission Profile Oriented Design of a SiC-Based PV-Inverter Application. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 4082-4089	4-3	35
224	An Overview of Capacitive DC-Links-Topology Derivation and Scalability Analysis. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 1805-1829	7.2	32
223	Power cycling test and failure analysis of molded Intelligent Power IGBT Module under different temperature swing durations. <i>Microelectronics Reliability</i> , 2016 , 64, 403-408	1.2	30
222	Impact of lifetime model selections on the reliability prediction of IGBT modules in modular multilevel converters 2017 ,		29
221	An Improved Stray Capacitance Model for Inductors. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11153-11170	7.2	28
220	A Digital Twin Based Estimation Method for Health Indicators of DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2105-2118	7.2	27
219	. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2630-2647	7.2	26
218	A 1-MHz Series Resonant DCDC Converter With a Dual-Mode Rectifier for PV Microinverters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6544-6564	7.2	26
217	Asymmetrical Reactive Power Capability of Modular Multilevel Cascade Converter Based STATCOMs for Offshore Wind Farm. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 5147-5164	7.2	24
216	Degradation testing and failure analysis of DC film capacitors under high humidity conditions. <i>Microelectronics Reliability</i> , 2015 , 55, 2007-2011	1.2	23
215	Mission Profile-Based System-Level Reliability Prediction Method for Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6916-6930	7.2	23
214	Sensitivity Analysis of Inductive Power Transfer Systems With Voltage-Fed Compensation Topologies. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 4502-4513	6.8	22
213	Overview of catastrophic failures of freewheeling diodes in power electronic circuits. <i>Microelectronics Reliability</i> , 2013 , 53, 1788-1792	1.2	22
212	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5055-5067	4-3	21
211	Harmonics mitigation of dead time effects in PWM converters using a repetitive controller 2015 ,		21
210	A Novel Type-2 Fuzzy Logic for Improved Risk Analysis of Proton Exchange Membrane Fuel Cells in Marine Power Systems Application. <i>Energies</i> , 2018 , 11, 721	3.1	21
209	Reliability-Oriented Optimization of the LC Filter in a Buck DC-DC Converter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6323-6337	7.2	21

208	. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1752-1764	4.3	21
207	Protection Scheme for Modular Multilevel Converters Under Diode Open-Circuit Faults. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2866-2877	7.2	19
206	A humidity-dependent lifetime derating factor for DC film capacitors 2015 ,		19
205	A Composite Failure Precursor for Condition Monitoring and Remaining Useful Life Prediction of Discrete Power Devices. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 688-698	11.9	19
204	Condition Monitoring for Submodule Capacitors in Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10403-10407	7.2	18
203	Instantaneous thermal modeling of the DC-link capacitor in PhotoVoltaic systems 2015 ,		18
202	Design for Reliability of Power Electronic Systems 2018 , 1423-1440		18
201	Reduced junction temperature control during low-voltage ride-through for single-phase photovoltaic inverters. <i>IET Power Electronics</i> , 2014 , 7, 2050-2059	2.2	18
200	A reliability-oriented design method for power electronic converters 2013 ,		18
199	A System Engineering Approach Using FMEA and Bayesian Network for Risk AnalysisA Case Study. <i>Sustainability</i> , 2020 , 12, 77	3.6	18
198	A Lifetime Prediction Method for LEDs Considering Real Mission Profiles. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 8718-8727	7.2	17
197	Condition monitoring for DC-link capacitors based on artificial neural network algorithm 2015 ,		17
196	Reactive power injection strategies for single-phase photovoltaic systems considering grid requirements 2014 ,		17
195	Reliability-oriented design and analysis of input capacitors in single-phase transformer-less photovoltaic inverters 2013 ,		17
194	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. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 1659-1672	7.2	17
193	Single-Phase Bridgeless PFC Topology Derivation and Performance Benchmarking. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9238-9250	7.2	16
192	A New Concept of High-Voltage DCDC Conversion Using Asymmetric Voltage Distribution on the Switch Pairs and Hybrid ZVSZCS Scheme. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2242-2259	7.2	16
191	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 882-900	7.2	16

190	Impact of Modulation Strategies on the Reliability and Harmonics of Impedance-Source Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3968-3981	5.6	16
189	A Review on Electrothermal Modeling of Supercapacitors for Energy Storage Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1677-1690	5.6	15
188	Investigation into the control methods to reduce the DC-link capacitor ripple current in a back-to-back converter 2014 ,		15
187	Wide-band gap devices in PV systems - opportunities and challenges 2014 ,		15
186	Design for reliability in power electronics in renewable energy systems ‡status and future 2013 ,		15
185	Modeling framework of voltage-source converters based on equivalence with synchronous generator. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018 , 6, 1291-1305	4	14
184	A novel electro-thermal model for wide bandgap semiconductor based devices 2013 ,		14
183	Comprehensive investigation on current imbalance among parallel chips inside MW-scale IGBT power modules 2015 ,		14
182	Improving the Effectiveness of Testing Pervasive Software via Context Diversity. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2014 , 9, 1-28	1.2	14
181	A novel concept to reduce the DC-link capacitor in PFC front-end power conversion systems 2012 ,		14
180	On the Practical Design of a Two-Terminal Active Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10006-10020	7.2	14
179	The Impact of Topology and Mission Profile on the Reliability of Boost-type Converters in PV Applications 2018 ,		14
178	. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11580-11593	7.2	13
177	Capacitor Condition Monitoring Based on the DC-Side Start-Up of Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 5589-5593	7.2	13
176	Comprehensive evaluation on efficiency and thermal loading of associated Si and SiC based PV inverter applications 2013 ,		13
175	Mission profile translation to capacitor stresses in grid-connected photovoltaic systems 2014 ,		13
174	2013 ,		13
173	Power Electronics Reliability: State of the Art and Outlook. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	13

172	Reliability of Power Electronic Systems for EV/HEV Applications. <i>Proceedings of the IEEE</i> , 2021 , 109, 1060-1076	13	
171	Artificial Intelligence-Aided Thermal Model Considering Cross-Coupling Effects. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9998-10002	7.2	12
170	Improved reliability of single-phase PV inverters by limiting the maximum feed-in power 2014 ,		12
169	The impact of gate-driver parameters variation and device degradation in the PV-inverter lifetime 2014 ,		12
168	A design tool to study the impact of mission-profile on the reliability of SiC-based PV-inverter devices. <i>Microelectronics Reliability</i> , 2014 , 54, 1655-1660	1.2	11
167	Weaving Context Sensitivity into Test Suite Construction 2009 ,		11
166	Lifetime estimation of electrolytic capacitors in a fuel cell power converter at various confidence levels 2016 ,		11
165	A Thermal Modeling Method Considering Ambient Temperature Dynamics. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6-9	7.2	11
164	Design for reliability and robustness tool platform for power electronic systems [Study case on motor drive applications] 2018 ,		11
163	The impact of mission profile models on the predicted lifetime of IGBT modules in the modular multilevel converter 2017 ,		10
162	The impact of grid unbalances on the reliability of DC-link capacitors in a motor drive 2017 ,		10
161	Bridgeless PFC Topology Simplification and Design for Performance Benchmarking. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5398-5414	7.2	10
160	A Converter-Level on-State Voltage Measurement Method for Power Semiconductor Devices. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1220-1224	7.2	10
159	System-level reliability enhancement of DC/DC stage in a single-phase PV inverter. <i>Microelectronics Reliability</i> , 2018 , 88-90, 1030-1035	1.2	10
158	Study on Oscillations During Short Circuit of MW-Scale IGBT Power Modules by Means of a 6-kA/1.1-kV Nondestructive Testing System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 756-765	5.6	9
157	Electro-thermal modeling of high power IGBT module short-circuits with experimental validation 2015 ,		9
156	System-Level Lifetime Prediction for LED Lighting Applications Considering Thermal Coupling Between LED Sources and Drivers. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 1860-1870	5.6	9
155	Computational-Efficient Thermal Estimation for IGBT Modules Under Periodic Power Loss Profiles in Modular Multilevel Converters. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 4984-4992	4.3	9

154	Reduction of DC-link capacitor in case of cascade multilevel converters by means of reactive power control 2014 ,		9
153	Capacitance estimation algorithm based on DC-link voltage harmonics using artificial neural network in three-phase motor drive systems 2017 ,		9
152	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 ,		9
151	Study of a new technique to reduce the dc-link capacitor in a power electronic system by using a series voltage compensator 2011 ,		9
150	Benchmarking of constant power generation strategies for single-phase grid-connected Photovoltaic systems 2016 ,		9
149	Application of Digital Twin Concept in Condition Monitoring for DC-DC Converter 2019 ,		9
148	Lifetime Prediction of DC-Link Capacitors in Multiple Drives System Based on Simplified Analytical Modeling. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 844-860	7.2	9
147	A reconfigurable series resonant DC-DC converter for wide-input and wide-output voltages 2017 ,		8
146	Mission profile based sizing of IGBT chip area for PV inverter applications 2016 ,		8
145	A DC-Link Capacitor Voltage Ripple Reduction Method for a Modular Multilevel Cascade Converter With Single Delta Bridge Cells. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 6115-6126	4.3	8
144	The feasibility study on thermal loading control of wind power converters with a flexible switching frequency 2015 ,		8
143	A temperature-dependent thermal model of IGBT modules suitable for circuit-level simulations 2014 ,		8
142	A Reference Submodule Based Capacitor Condition Monitoring Method for Modular Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6691-6696	7.2	8
141	A Simplified On-State Voltage Measurement Circuit for Power Semiconductor Devices. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 10993-10997	7.2	8
140	The Faraday Shields Loss of Transformers. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12194-12206	7.2	7
139	Lifetime benchmarking of two DC-link passive filtering configurations in adjustable speed drives 2018 ,		7
138	A Two-Terminal Active Inductor With Minimum Apparent Power for the Auxiliary Circuit. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 1013-1016	7.2	7
137	A Simplification Method for Power Device Thermal Modeling With Quantitative Error Analysis. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1649-1658	5.6	7

136	Degradation modeling for reliability estimation of DC film capacitors subject to humidity acceleration. <i>Microelectronics Reliability</i> , 2019 , 100-101, 113401	1.2	7
135	Artificial Neural Network based DC-link capacitance estimation in a diode-bridge front-end inverter system 2017 ,		7
134	Enabling Data-Driven Condition Monitoring of Power Electronic Systems With Artificial Intelligence: Concepts, Tools, and Developments. <i>IEEE Power Electronics Magazine</i> , 2021 , 8, 18-27	1.5	7
133	System-level reliability assessment of power stage in fuel cell application 2016 ,		7
132	An Improved di/dt-RCD Detection for Short-Circuit Protection of SiC mosfet. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 12-17	7.2	7
131	Health State Estimation and Remaining Useful Life Prediction of Power Devices Subject to Noisy and Aperiodic Condition Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-16	5.2	7
130	An analytical circuit based nonlinear thermal model for capacitor banks. <i>Microelectronics Reliability</i> , 2018 , 88-90, 524-527	1.2	7
129	Reactive Power Impacts on LCL Filter Capacitor Lifetime in Grid-Connected Inverter. <i>IEEE Open Journal of Power Electronics</i> , 2020 , 1, 139-148	2.5	6
128	Model-Based Design and Optimization of Hybrid DC-Link Capacitor Banks. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8910-8925	7.2	6
127	Cost assessment of three power decoupling methods in a single-phase power converter with a reliability-oriented design procedure 2016 ,		6
126	Simplified Multi-time Scale Thermal Model Considering Thermal Coupling in IGBT Modules 2019 ,		6
125	Real field mission profile oriented design of a SiC-based PV-inverter application 2013 ,		6
124	Degradation effect on reliability evaluation of aluminum electrolytic capacitor in backup power converter 2017 ,		6
123	A unified derivation of second-order switching surface for boundary control of DC-DC converters 2009 ,		6
122	Real mission profile based lifetime estimation of fuel-cell power converter 2016 ,		6
121	Impact of Long-Term Mission Profile Sampling Rate on the Reliability Evaluation of Power Electronics in Photovoltaic Applications 2018 ,		6
120	Balanced Conduction Loss Distribution among SMs in Modular Multilevel Converters 2018 ,		6
119	A Self-Power Method for a Converter-Level on-State Voltage Measurement Concept. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8743-8751	7.2	6

118	Energy Saving and Efficient Energy Use By Power Electronic Systems. <i>Lecture Notes in Energy</i> , 2017 , 1-140.4	5
117	An AC resistance optimization method applicable for inductor and transformer windings with full layers and partial layers 2017 ,	5
116	Cost-Volume-Reliability Pareto Optimization of a Photovoltaic Microinverter 2019 ,	5
115	Thermal Characterization of Silicon Carbide MOSFET Module Suitable for High-Temperature Computationally Efficient Thermal-Profile Prediction. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6 5
114	Capacitance estimation for dc-link capacitors in a back-to-back converter based on Artificial Neural Network algorithm 2016 ,	5
113	Low voltage ride-through of single-phase transformerless photovoltaic inverters 2013 ,	5
112	A hybrid damping method for LLCL-filter based grid-tied inverter with a digital filter and an RC parallel passive damper 2013 ,	5
111	Design for reliability in renewable energy systems 2017 ,	5
110	Stability analysis and dynamic response of a DC-link module with a series voltage compensator 2013 ,	5
109	Analytical model for LLC resonant converter with variable duty-cycle control 2016 ,	5
108	Efficiency Enhancement of Bridgeless Buck-Boost PFC Converter with Unity PF and DC Split to Reduce Voltage Stresses 2018 ,	5
107	Mission Profile Based Power Converter Reliability Analysis in a DC Power Electronic Based Power System 2018 ,	5
106	Submodule Level Power Loss Balancing Control for Modular Multilevel Converters 2018 ,	5
105	Reliability Assessment of Hybrid Capacitor Bank Using Electrolytic- and Film-Capacitors in Three-Level Neutral-Point-Clamped Inverters 2019 ,	4
104	First Observations in Degradation Testing of Planar Magnetics 2019 ,	4
103	Wear-out failure of an IGBT module in motor drives due to uneven thermal impedance of power semiconductor devices. <i>Microelectronics Reliability</i> , 2020 , 114, 113800	1.2 4
102	Winding design of series AC inductor for dual active bridge converters 2018 ,	4
101	Reactive power compensation capability of a STATCOM based on two types of Modular Multilevel Cascade Converters for offshore wind application 2017 ,	4

100	A voltage control method for an active capacitive DC-link module with series-connected circuit 2017,		4
99	Reliability Assessment of Transformerless PV Inverters considering Mission Profiles. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-10	2.1	4
98	Investigation on the short-circuit behavior of an aged IGBT module through a 6 kA/1.1 kV non-destructive testing equipment 2014,		4
97	Correlating Context-Awareness and Mutation Analysis for Pervasive Computing Systems 2010,		4
96	Hold-up time analysis of a dc-link module with a series voltage compensator 2012,		4
95	Modeling and Analysis of a Current-Fed ZCS Full-Bridge DC/DC Converter with Adaptive Soft-Switching Energy 2009,		4
94	A Cost-Constrained Active Capacitor for a Single-Phase Inverter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6746-6760	7.2	4
93	A lifetime prediction method for LEDs considering mission profiles 2016,		4
92	Standalone operation of Distributed Generation Systems with Improved Harmonic Elimination Scheme. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	4
91	Modeling and Optimization of Displacement Windings for Transformers in Dual Active Bridge Converters 2018,		4
90	Reliability-oriented design of a cost-effective active capacitor 2017,		3
89	Mission Profile-based Accelerated Testing of DC-link Capacitors in Photovoltaic Inverters 2019,		3
88	Prediction of bond wire fatigue of IGBTs in a PV inverter under long-term operation 2015,		3
87	Degradation Analysis of Planar Magnetics 2020,		3
86	2018,		3
85	Reliability oriented design of a grid-connected photovoltaic microinverter 2017,		3
84	Impedance characteristics modeling of a two-terminal active capacitor 2017,		3
83	Introducing state-trajectory control for the synchronous interleaved boost converter 2015,		3

82	A review of the condition monitoring of capacitors in power electronic converters 2015 ,		3
81	Design for Reliability of Power Electronics in Renewable Energy Systems. <i>Green Energy and Technology</i> , 2014 , 295-338	0.6	3
80	Diagnostic module for series-connected photovoltaic panels. <i>Solar Energy</i> , 2020 , 196, 243-259	6.8	3
79	A generic topology derivation method for single-phase converters with active capacitive DC-links 2016 ,		3
78	Investigation of Switching Oscillations for Silicon Carbide MOSFETs in Three-Level Active Neutral-Point-Clamped Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 4839-4853	5.6	3
77	A Voltage-Based Multiple Fault Diagnosis Approach for Cascaded H-Bridge Multilevel Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
76	A Temperature-dependent Thermal Model of Silicon Carbide MOSFET Module for Long-term Reliability Assessment 2018 ,		3
75	Thermal resistance modelling and design optimization of PCB vias. <i>Microelectronics Reliability</i> , 2018 , 88-90, 1118-1123	1.2	3
74	Thermal stress reduction of quasi-Z source inverter drive by model predictive control. <i>Microelectronics Reliability</i> , 2018 , 88-90, 1247-1250	1.2	3
73	A fixed-frequency bidirectional resonant DC-DC converter suitable for wide voltage range 2017 ,		2
72	An active capacitor with self-power and internal feedback control signals 2017 ,		2
71	Benchmarking of capacitor power loss calculation methods for wear-out failure prediction in PV inverters. <i>Microelectronics Reliability</i> , 2019 , 100-101, 113491	1.2	2
70	An analytical essential switching loss estimation method for modular multilevel converters with nearest level modulation 2017 ,		2
69	A method for hotspot temperature estimation of aluminum electrolytic capacitors 2017 ,		2
68	Lifetime prediction of LED lighting systems considering thermal coupling between LED sources and drivers 2017 ,		2
67	A switched-capacitor based high conversion ratio converter for renewable energy applications: Principle and generation 2017 ,		2
66	Waveform control method for mitigating harmonics of inverter systems with nonlinear load 2015 ,		2
65	A comprehensive investigation on the short circuit performance of MW-level IGBT power modules 2015 ,		2

64	Sizing of the series dynamic breaking resistor in a doubly fed induction generator wind turbine 2014,		2
63	Fast and Accurate Icepak-PSpice Co-Simulation of IGBTs under Short-Circuit with an Advanced PSpice Model 2014,		2
62	A class of single-step high-voltage DC-DC converters with low voltage stress and high output current capacity 2009,		2
61	Uneven Inter-turn Voltage Distribution among Windings of Medium-voltage Medium/High-frequency Transformers 2020,		2
60	Reduced-Order Thermal Modeling for Photovoltaic Inverters Considering Mission Profile Dynamics. <i>IEEE Open Journal of Power Electronics</i> , 2020 , 1, 407-419	2.5	2
59	A new ZVS-PWM current-fed full-bridge converter with full soft-switching load range 2016,		2
58	Analytical Modeling of 9-150 kHz EMI in Single-Phase PFC Converter 2019,		2
57	System-Level Power Loss Evaluation of Modular Multilevel Converters 2019,		2
56	Analytical Modeling and Design of Capacitor Bank Considering Thermal Coupling Effect. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 2629-2640	7.2	2
55	Parasitics of Orthocyclic Windings in Inductors and Transformers. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1994-2008	7.2	2
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