Condition Monitoring for Device Reliability in Power El

Citation Report

#	ARTICLE	IF	CITATIONS
1	Different synchronization regimes in a system of three coupled 1-D maps. , 1999, , .		0
2	An Invariance Principle in the Theory of Stability. , 2009, , .		32
3	Session 8: Industrial developments. , 2010, , .		0
5	Reliability & Availability of Wind Turbine Electrical & Electronic Components. EPE Journal (European Power Electronics and Drives Journal), 2010, 20, 45-50.	0.7	17
6	A new approach for real-time multiple open-circuit fault diagnosis in voltage source inverters. , 2010, , .		15
7	Electro-thermal modeling for junction temperature cycling-based lifetime prediction of a press-pack IGBT 3L-NPC-VSC applied to large wind turbines. , 2011, , .		28
8	Single power switch open-circuit fault diagnosis in voltage-fed PWM motor drives by the reference current errors. , 2011, , .		15
9	Control and optimisation of power consumption in Radio Base stations. , 2011, , .		2
10	A generic framework for wind power forecasting. , 2011, , .		5
11	Fault-tolerant operating analysis of a quad-inverter multiphase multilevel AC motor drive. , 2011, , .		10
12	Power electronics converters for wind turbine systems. , 2011, , .		28
13	An Industry-Based Survey of Reliability in Power Electronic Converters. IEEE Transactions on Industry Applications, 2011, 47, 1441-1451.	4.9	1,435
14	Monitoring Solder Fatigue in a Power Module Using Case-Above-Ambient Temperature Rise. IEEE Transactions on Industry Applications, 2011, 47, 2578-2591.	4.9	146
15	A New Approach for Real-Time Multiple Open-Circuit Fault Diagnosis in Voltage-Source Inverters. IEEE Transactions on Industry Applications, 2011, 47, 2487-2494.	4.9	252
16	Knowledge Area: Software Configuration Management. , 2011, , .		0
17	Multiple open-circuit fault diagnosis in voltage-fed PWM motor drives using the current Park's Vector phase and the currents polarity. , 2011, , .		20
18	Condition monitoring IGBT module bond wire lift-off using measurable signals. , 2012, , .		16
19	Experimental investigation of fault-tolerant control strategies for quad-inverter converters. , 2012, , .		21

#	Article	IF	Citations
20	Condition Monitoring Power Module Solder Fatigue Using Inverter Harmonic Identification. IEEE Transactions on Power Electronics, 2012, 27, 235-247.	7.9	139
21	Efficiency evaluation of fault-tolerant operating strategies applied to three-phase permanent magnet synchronous motor drives. , 2012, , .		8
22	Condition Monitoring of DC-Link Capacitors in Aerospace Drives. IEEE Transactions on Industry Applications, 2012, 48, 1866-1874.	4.9	72
23	Power Electronics Converters for Wind Turbine Systems. IEEE Transactions on Industry Applications, 2012, 48, 708-719.	4.9	737
24	Detection of Airgap Eccentricity for Permanent Magnet Synchronous Motors Based on the d-Axis Inductance. IEEE Transactions on Power Electronics, 2012, 27, 2605-2612.	7.9	80
25	Design for reliability of power electronic systems. , 2012, , .		210
26	Power electronics and reliability in renewable energy systems. , 2012, , .		75
27	A voltage-based approach for open-circuit fault diagnosis in voltage-fed SVM motor drives without extra hardware. , 2012, , .		14
28	Fault-tolerant control strategies for quad inverter induction motor drives with one failed inverter. , 2012, , .		15
29	Reliability of IGBT in a STATCOM for harmonic compensation and power factor correction. , 2012, , .		4
30	Open-circuit fault diagnosis in 3-phase uncontrolled rectifiers. , 2012, , .		16
31	Power Semiconductor Devices: For Variable Speed Drives. IEEE Industry Applications Magazine, 2012, 18, 18-25.	0.4	14
32	Diagnosis of open-switch faults in variable speed drives by stator current analysis and pattern recognition. IET Electric Power Applications, 2013, 7, 509-522.	1.8	74
33	Power Electronic Devices in the Future. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 11-17.	5.4	140
34	Toward Reliable Power Electronics: Challenges, Design Tools, and Opportunities. IEEE Industrial Electronics Magazine, 2013, 7, 17-26.	2.6	668
35	Recent advances in fault diagnosis by Park's vector approach. , 2013, , .		78
36	New insights on multiphase synchronous buck converter design: A comprehensive consideration. , 2013, , .		0
37	Future on Power Electronics for Wind Turbine Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 139-152.	5.4	745

#	Article	IF	Citations
38	A reliability-oriented design method for power electronic converters. , 2013, , .		28
39	A fault-tolerant PMSG drive for wind turbine applications with minimal increase of the hardware requirements. , 2013, , .		3
40	Junction temperature measurements via thermo-sensitive electrical parameters and their application to condition monitoring and active thermal control of power converters. , 2013, , .		38
41	Comprehensive evaluation on efficiency and thermal loading of associated Si and SiC based PV inverter applications. , 2013, , .		19
42	A novel electro-thermal model for wide bandgap semiconductor based devices. , 2013, , .		28
43	Catastrophic failure and fault-tolerant design of IGBT power electronic converters - an overview. , 2013, , .		145
44	Real field mission profile oriented design of a SiC-based PV-inverter application. , 2013, , .		9
45	MOSFET gate open failure analysis in power electronics. , 2013, , .		9
46	In Situ Diagnostics and Prognostics of Wire Bonding Faults in IGBT Modules for Electric Vehicle Drives. IEEE Transactions on Power Electronics, 2013, 28, 5568-5577.	7.9	366
47	Short circuit fault diagnosis in switches of a single-phase full-bridge inverter. , 2013, , .		1
48	Fault Tolerance for Wind Turbine Power Converter. , 2013, , .		4
49	Simple sensorless diagnosis method for open-switch faults in SVM-VSI-fed induction motor drive. , 2013, , .		23
50	Fault-tolerant converter for AC drives using vector-based hysteresis current control. , 2013, , .		5
51	A generalized approach for intelligent fault detection and recovery in power electronic systems. , 2013, , .		11
52	Investigation of gate voltage oscillations in an IGBT module after partial bond wires lift-off. Microelectronics Reliability, 2013, 53, 282-287.	1.7	36
53	Saturation Current and On-Resistance Correlation during During Repetitive Short-Circuit Conditions on SiC JFET Transistors. IEEE Transactions on Power Electronics, 2013, 28, 621-624.	7.9	18
54	Effect of the Mission Profile on the Reliability of a Power Converter Aimed at Photovoltaic Applicationsâ€"A Case Study. IEEE Transactions on Power Electronics, 2013, 28, 2998-3007.	7.9	80
55	Evaluation of $V_{m ce}$ Monitoring as a Real-Time Method to Estimate Aging of Bond Wire-IGBT Modules Stressed by Power Cycling. IEEE Transactions on Industrial Electronics, 2013, 60, 2760-2770.	7.9	177

#	Article	IF	Citations
56	A Method for Fault Detection and Isolation Based on the Processing of Multiple Diagnostic Indices: Application to Inverter Faults in AC Drives. IEEE Transactions on Vehicular Technology, 2013, 62, 995-1009.	6.3	122
57	A New Algorithm for Real-Time Multiple Open-Circuit Fault Diagnosis in Voltage-Fed PWM Motor Drives by the Reference Current Errors. IEEE Transactions on Industrial Electronics, 2013, 60, 3496-3505.	7.9	315
58	Adding inverter fault detection to model-based predictive control for flying-capacitor inverters. , 2013, , .		2
59	Fault diagnosis scheme for open‐circuit faults in field‐oriented control induction motor drives. IET Power Electronics, 2013, 6, 869-877.	2.1	68
60	Thermal cycling evaluation for DFIG wind turbine power converter based on joint modelling. , 2013, , .		19
61	Reliability comparison of fault-tolerant 3L-NPC based converter topologies for application in wind turbine systems. , 2013, , .		7
62	Open-Circuit Fault Diagnosis in PMSG Drives for Wind Turbine Applications. IEEE Transactions on Industrial Electronics, 2013, 60, 3957-3967.	7.9	238
63	Design Optimization of Transformerless Grid-Connected PV Inverters Including Reliability. IEEE Transactions on Power Electronics, 2013, 28, 325-335.	7.9	252
64	Development of Accelerated Method for Thermal Cycling in Electronic Packaging Application. Journal of Electronic Packaging, Transactions of the ASME, 2013, 135, .	1.8	2
65	Fault-tolerant operation of an open-end winding five-phase PMSM drive with inverter faults. , 2013, , .		25
66	Detection of coupling inductor faults in three-phase adjustable speed drives with direct power control-based active front-end rectifiers. , 2013, , .		1
67	Real time monitoring of aging process in power converters using the SSTDR generated impedance matrix. , 2013, , .		8
68	Power electronic converter systems for direct drive renewable energy applications. , 2013, , 106-135.		1
69	Diagnostics and Prognostics Needs and Requirements for Electrified Vehicles Powertrains. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 524-529.	0.4	10
70	Reliability evaluation model of wind power converter system considering variable wind profiles. , 2014, , .		1
71	Real Field Mission Profile Oriented Design of a SiC-Based PV-Inverter Application. IEEE Transactions on Industry Applications, 2014, 50, 4082-4089.	4.9	40
72	Condition monitoring and failure prognosis of IGBT inverters based on on-line characterization. , 2014, , .		11
73	Real-time coolant temperature monitoring in power electronics using linear parameter-varying models for variable coolant flow situations. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
74	Fault diagnosis in non-isolated bidirectional half-bridge DC-DC converters. , 2014, , .		4
75	Online junction temperature extraction with turn-off delay time for high power IGBTs. , 2014, , .		21
76	Power cycling capabilities assessment of IGBT modules in wind power converter considering the wind turbulence effects. , 2014, , .		3
77	Analytical optimal currents for multiphase PMSMs under fault conditions and saturation. , 2014, , .		8
78	Control of IGBT junction temperature in small-scale wind power converter. , 2014, , .		8
79	Luenberger state observer based condition monitoring method in digitally controlled switching mode power supply. , 2014, , .		0
80	Identifying natural degradation/aging in power MOSFETs in a live grid-tied PV inverter using spread spectrum time domain reflectometry. , 2014, , .		7
81	Estimation of the power electronic converter lifetime in fully rated converter wind turbine for onshore and offshore wind farms. , 2014, , .		6
82	Life estimation modelling for power electronics used in wind turbines. , 2014, , .		1
83	Study on power converters used in hybrid vehicles with monitoring and diagnostics techniques. , 2014, , .		10
84	Analysis of space vector modulation technique in inverter-fed fault-tolerant induction motor drive. , 2014, , .		5
85	Inverter device nonlinearity characterization technique for use in a motor drive system. , 2014, , .		1
86	Condition Monitoring of Power Electronics for Offshore Wind. Engineering & Technology Reference, 2014, , .	0.1	5
87	Junction Temperature Measurement of IGBTs Using Short Circuit Current as a Temperature Sensitive Electrical Parameter for Converter Prototype Evaluation. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	66
88	Wind turbine condition monitoring: technical and commercial challenges. Wind Energy, 2014, 17, 673-693.	4.2	343
89	Fault-Tolerant PMSG Drive With Reduced DC-Link Ratings for Wind Turbine Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 26-34.	5.4	52
90	Fault diagnostic algorithm for three-level neutral point clamped AC motor drives, based on the average current Park's vector. IET Power Electronics, 2014, 7, 1127-1137.	2.1	76
91	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.	5.4	681

#	Article	IF	Citations
92	An EM-based identification algorithm for a class of hybrid systems with application to power electronics. International Journal of Control, 2014, 87, 1339-1351.	1.9	10
93	A Voltage-Based Approach Without Extra Hardware for Open-Circuit Fault Diagnosis in Closed-Loop PWM AC Regenerative Drives. IEEE Transactions on Industrial Electronics, 2014, 61, 4960-4970.	7.9	138
94	Structural analysis of SiC Schottky diodes failure mechanism under current overload. Journal Physics D: Applied Physics, 2014, 47, 055102.	2.8	5
95	Quantifying Device Degradation in Live Power Converters Using SSTDR Assisted Impedance Matrix. IEEE Transactions on Power Electronics, 2014, 29, 3116-3131.	7.9	39
96	Online junction temperature measurement via internal gate resistance during turn-on. , 2014, , .		33
97	Study of Bonding Wire Failure Effects on External Measurable Signals of IGBT Module. IEEE Transactions on Device and Materials Reliability, 2014, 14, 83-89.	2.0	84
98	Improving Power Converter Reliability: Online Monitoring of High-Power IGBT Modules. IEEE Industrial Electronics Magazine, 2014, 8, 40-50.	2.6	97
99	Operating parameter based wirebond model for a power module. , 2014, , .		0
100	Real-time thermal monitoring of power semiconductors in power electronics using linear parameter-varying models for variable coolant flow situations. , 2014, , .		18
101	Study on case temperature distribution for condition monitoring of multidie IGBT modules. , 2014, , .		10
102	Monitoring IGBT's health condition via junction temperature variations. , 2014, , .		16
103	Improved Reliability of Power Modules: A Review of Online Junction Temperature Measurement Methods. IEEE Industrial Electronics Magazine, 2014, 8, 17-27.	2.6	168
104	Advanced and Intelligent Control in Power Electronics and Drives. Studies in Computational Intelligence, 2014, , .	0.9	61
105	Optimal Control of Traction Motor Drives Under Electrothermal Constraints. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2014, 2, 249-263.	5.4	112
106	Rainflow algorithm based lifetime estimation of power semiconductors in utility applications. , 2014, , .		7
107	State Detection of Bond Wires in IGBT Modules Using Eddy Current Pulsed Thermography. IEEE Transactions on Power Electronics, 2014, 29, 5000-5009.	7.9	157
108	A Fault-Tolerant PMSG Drive for Wind Turbine Applications With Minimal Increase of the Hardware Requirements. IEEE Transactions on Industry Applications, 2014, 50, 2039-2049.	4.9	44
109	An Adaptive Control Strategy for a Wind Energy Conversion System Based on PWM-CSC and PMSG. IEEE Transactions on Power Systems, 2014, 29, 1446-1453.	6.5	54

#	Article	IF	Citations
110	Reliability Analysis and Performance Degradation of a Boost Converter. IEEE Transactions on Industry Applications, 2014, 50, 3986-3994.	4.9	60
112	New Insights on Dynamic Voltage Scaling of Multiphase Synchronous Buck Converter: A Comprehensive Design Consideration. IEEE Transactions on Power Electronics, 2014, 29, 1927-1940.	7.9	25
113	A Fault-Tolerant Direct Controlled PMSG Drive for Wind Energy Conversion Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 821-834.	7.9	94
114	Open-Circuit Fault Diagnosis for Matrix Converter Drives and Remedial Operation Using Carrier-Based Modulation Methods. IEEE Transactions on Industrial Electronics, 2014, 61, 531-545.	7.9	60
115	Small junction temperature cycles on die-attach solder layer in IGBT. , 2015, , .		4
116	Fatigue life prediction of IGBT module for metro vehicle traction converter based on traction calculation. , 2015, , .		5
117	Symmetryâ€analysisâ€based diagnosis method with correlation coefficients for openâ€circuit fault in inverter. Electronics Letters, 2015, 51, 1688-1690.	1.0	14
118	An Energy-based approach to condition monitoring of industrial processes. IFAC-PapersOnLine, 2015, 48, 772-777.	0.9	5
119	DBC switch module for management of temperature and noise in 220-W/in^3 power assembly. , 2015, , .		0
120	Fault diagnosis algorithm based on switching function for boost converters. International Journal of Electronics, 2015, 102, 1229-1243.	1.4	21
121	Advanced power cycling test for power module with on-line on-state V<inf>CE</inf> measurement. , 2015, , .		7
122	Open-circuit fault diagnosis for a grid-connected NPC inverter with unity Power Factor. , 2015, , .		2
123	Measurement and Comparison of Reliability Performance of Photovoltaic Power Optimizers for Energy Production. Metrology and Measurement Systems, 2015, 22, 139-152.	1.4	15
124	Thermal degradation management in a Fault-tolerant active NPC converter. , 2015, , .		4
125	Single chip wireless condition monitoring of power semiconductor modules. , 2015, , .		5
126	Rainflow Algorithm-Based Lifetime Estimation of Power Semiconductors in Utility Applications. IEEE Transactions on Industry Applications, 2015, 51, 3368-3375.	4.9	85
127	Leakage current compensation for a 450 nW, high-temperature, bandgap temperature sensor. , 2015, , .		6
128	A review of the condition monitoring of capacitors in power electronic converters. , 2015, , .		9

#	Article	IF	Citations
129	System identification and adaptive control of a DC-DC converter using a current balancing ON/OFF control technique for optimal transient performance. , 2015, , .		2
130	A method for health monitoring of power MOSFETs based on threshold voltage. , 2015, , .		4
131	Evaluation of on-state voltage V<inf>CE(ON)</inf> and threshold voltage V<inf>th</inf> for real-time health monitoring of IGBT power modules. , 2015, , .		11
132	Experimental performances of a DMPPT multitopology converter. , 2015, , .		12
133	Power electronics in renewable energy smart grid: a review. International Journal of Industrial Electronics and Drives, 2015, 2, 43.	0.1	7
134	Wavelet aided monitoring of thermal ageing of thyristor working in AC regulator. , 2015, , .		0
135	Online temperature estimation of a high-power 4.5 kV IGBT module based on the gate-emitter threshold voltage. , 2015, , .		11
136	Remaining useful lifetime estimation for degraded power MOSFETs under cyclic thermal stress. , 2015, , .		17
137	Condition Monitoring: A Decade of Proposed Techniques. IEEE Industrial Electronics Magazine, 2015, 9, 22-36.	2.6	78
138	Open-Circuit Fault Diagnosis and Fault-Tolerant Control for a Grid-Connected NPC Inverter. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	141
139	Failure modes and effect analysis of module level power electronics. , 2015, , .		15
140	Fast power cycling protocols implemented in an automated test bench dedicated to IGBT module ageing. Microelectronics Reliability, 2015, 55, 81-92.	1.7	29
141	Inverter Device Nonlinearity Characterization Technique for Use in a Motor Drive System. IEEE Transactions on Industry Applications, 2015, 51, 2331-2339.	4.9	6
142	Multiobjective Design Optimization of IGBT Power Modules Considering Power Cycling and Thermal Cycling. IEEE Transactions on Power Electronics, 2015, 30, 2493-2504.	7.9	97
143	Study and Handling Methods of Power IGBT Module Failures in Power Electronic Converter Systems. IEEE Transactions on Power Electronics, 2015, 30, 2517-2533.	7.9	537
144	Computationally Efficient, Real-Time, and Embeddable Prognostic Techniques for Power Electronics. IEEE Transactions on Power Electronics, 2015, 30, 2623-2634.	7.9	62
145	Real-Time IGBT Open-Circuit Fault Diagnosis in Three-Level Neutral-Point-Clamped Voltage-Source Rectifiers Based on Instant Voltage Error. IEEE Transactions on Industrial Electronics, 2015, 62, 1669-1678.	7.9	137
146	Multiple transistor open-circuit faults diagnosis in a vector-controlled induction motor drive. , 2015, , .		0

#	Article	IF	Citations
147	A Current-Sensorless Online ESR and <italic>C</italic> Identification Method for Output Capacitor of Buck Converter. IEEE Transactions on Power Electronics, 2015, 30, 6993-7005.	7.9	83
148	Fault-Tolerant Inverter for Power Flow Control in Variable-Speed Four-Wire Permanent-Magnet Generators. IEEE Transactions on Industrial Electronics, 2015, 62, 6727-6736.	7.9	23
149	Using Improved Power Electronics Modeling and Turbine Control to Improve Wind Turbine Reliability. IEEE Transactions on Energy Conversion, 2015, 30, 1043-1051.	5.2	24
150	A Survey on Wind Turbine Condition Monitoring and Fault Diagnosisâ€"Part I: Components and Subsystems. IEEE Transactions on Industrial Electronics, 2015, 62, 6536-6545.	7.9	392
151	Design Considerations for Single-Phase Line Frequency Transformers Applied at Photovoltaic Systems. IEEE Power and Energy Technology Systems Journal, 2015, 2, 82-93.	2.8	7
152	Simple diagnostic technique of a single IGBT open-circuit faults for a SVM-VSI vector controlled induction motor drive. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2015, 63, 281-288.	0.8	25
153	Study on thermomechanical reliability of power modules and thermal grease pump-out mechanism. , 2015, , .		3
154	Study on Heat Dissipation and Cooling Optimization of the Junction Box of OBSEA Seafloor Observatory. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1301-1309.	5.8	11
155	Improved thermal couple impedance model and thermal analysis of multi-chip paralleled IGBT module. , 2015, , .		23
156	Modeling of Multiscale Heat Transfer Systems Using Volume Averaging Theory. Advances in Heat Transfer, 2015, 47, 1-165.	0.9	2
157	Multiobjective Optimal Design of Photovoltaic Synchronous Boost Converters Assessing Efficiency, Reliability, and Cost Savings. IEEE Transactions on Industrial Informatics, 2015, 11, 1038-1048.	11.3	81
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. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 756-765.	5.4	17
159	Condition monitoring for DC-link capacitors based on artificial neural network algorithm. , 2015, , .		42
160	Online health monitoring of metallized polymer film capacitors for avionics applications. , 2015, , .		4
161	Predictive flux and torque control of induction motor drive under post-fault operation of three-phase voltage inverter. , 2015, , .		5
162	A review of failure mechanisms in wind turbine generator systems. , 2015, , .		24
163	Physics-of-Failure, Condition Monitoring, and Prognostics of Insulated Gate Bipolar Transistor Modules: A Review. IEEE Transactions on Power Electronics, 2015, 30, 2413-2426.	7.9	400
164	Mission Profile-Based Reliability Design and Real-Time Life Consumption Estimation in Power Electronics. IEEE Transactions on Power Electronics, 2015, 30, 2601-2613.	7.9	134

#	ARTICLE	IF	CITATIONS
165	Field-Experience Based Root-Cause Analysis of Power-Converter Failure in Wind Turbines. IEEE Transactions on Power Electronics, 2015, 30, 2481-2492.	7.9	46
166	Coupling Inductor Fault Detection and Estimation in Three-Phase Adjustable-Speed Drives With Direct Power Control-Based Active Front-End Rectifiers. IEEE Transactions on Industrial Electronics, 2015, 62, 1955-1963.	7.9	23
167	Adding Inverter Fault Detection to Model-Based Predictive Control for Flying-Capacitor Inverters. IEEE Transactions on Industrial Electronics, 2015, 62, 2054-2063.	7.9	62
168	A Fault-Tolerant Three-Phase Adjustable Speed Drive Topology With Active Common-Mode Voltage Suppression. IEEE Transactions on Power Electronics, 2015, 30, 2828-2839.	7.9	75
169	Reliability Improvement of a T-Type Three-Level Inverter With Fault-Tolerant Control Strategy. IEEE Transactions on Power Electronics, 2015, 30, 2660-2673.	7.9	219
170	Multiple Open-Circuit Faults Diagnosis in Back-to-Back Converters of PMSG Drives for Wind Turbine Systems. IEEE Transactions on Power Electronics, 2015, 30, 2689-2702.	7.9	231
171	Condition monitoring of offshore wind turbines. , 2016, , 543-572.		8
172	EMI CONSIDERATION OF HIGH RELIABILITY DC-DC CONVERTER: IN AEROSPACE BASED ELECTRIC TRANSPORT SYSTEM CHARGER APPLICATION. Progress in Electromagnetics Research M, 2016, 46, 125-133.	0.9	14
173	A Comparative Reliability Study of Three Fundamental Multilevel Inverters Using Two Different Approaches. Electronics (Switzerland), 2016, 5, 18.	3.1	36
174	Application of a Heat Flux Sensor in Wind Power Electronics. Energies, 2016, 9, 456.	3.1	5
175	Characterizations of Rapid Sintered Nanosilver Joint for Attaching Power Chips. Materials, 2016, 9, 564.	2.9	21
176	Study on the effects of small swing of junction temperature cycles on solder layer in an IGBT module. , 2016, , .		0
177	A novel five-level optimized carrier multilevel PWM quad-inverter six-phase AC drive. , 2016, , .		2
178	Z-source resonant converter with power factor correction for wireless power transfer applications. , 2016, , .		2
179	Error-voltage based open-switch fault diagnosis strategy for matrix converters with model predictive control method. , 2016, , .		1
180	Operation under fault conditions of the stacked polyphase bridges converter. , 2016, , .		3
181	A comprehensive study on variations of discrete IGBT characteristics due to package degradation triggered by thermal stress. , 2016, , .		7
182	Submodule power losses balancing algorithms for the modular multilevel converter. , 2016, , .		13

#	ARTICLE	IF	CITATIONS
183	On-line semiconductor switching loss measurement system for an advanced condition monitoring concept. , 2016, , .		7
184	Prognosis of chip-loss failure in high-power IGBT module by self-testing. , 2016, , .		3
185	A unified feature parameter extraction strategy based on system identification for the Buck converter with linear or nonlinear loads. , 2016, , .		1
186	Operational risk assessment of wind turbines. , 2016, , .		1
187	Lifetime assessment of DC link electrolytic capacitor of wind power converter based on operational condition. , 2016, , .		5
188	Real-time aging monitoring for power MOSFETs using threshold voltage. , 2016, , .		2
189	A stator-flux-based diagnostic method for IGBT open-circuit faults in an induction motor drive. , 2016, , .		0
190	Power switch lifetime extension strategies for three-phase converters. , 2016, , .		4
191	Z-Source Resonant Converter With Power Factor Correction for Wireless Power Transfer Applications. IEEE Transactions on Power Electronics, 2016, 31, 7691-7700.	7.9	63
192	Comparison of power electronics lifetime between verticalâ€•and horizontalâ€•axis wind turbines. IET Renewable Power Generation, 2016, 10, 679-686.	3.1	16
193	A software frequency response analysis method to monitor degradation of power MOSFETs in basic single-switch converters. , 2016, , .		4
194	Online computation of IGBT on-state resistance for off-shelf three-phase two-level power converter systems. Microelectronics Reliability, 2016, 64, 379-386.	1.7	16
195	Thermal performance and efficiency investigation of conventional boost, Z-source and Y-source converters. , 2016, , .		9
196	An Improved Thermal Network Model of the IGBT Module for Wind Power Converters Considering the Effects of Base-Plate Solder Fatigue. IEEE Transactions on Device and Materials Reliability, 2016, 16, 570-575.	2.0	40
197	Active gate driving method for reliability improvement of IGBTs via junction temperature swing reduction. , 2016, , .		28
198	A Review of the Condition Monitoring of Capacitors in Power Electronic Converters. IEEE Transactions on Industry Applications, 2016, 52, 4976-4989.	4.9	182
199	Energy-based Fault Detection for an Autothermal Reformer. IFAC-PapersOnLine, 2016, 49, 353-358.	0.9	9
200	Diagnosis of multiple IGBT open-circuit faults for three-phase PWM inverters. , 2016, , .		2

#	Article	IF	Citations
201	A novel multilevel quad-inverter configuration for quasi six-phase open-winding converter. , 2016, , .		0
202	Condition-based maintenance methods for marine renewable energy. Renewable and Sustainable Energy Reviews, 2016, 66, 53-78.	16.4	55
203	Electrical faults diagnosis in the induction motor drive under the direct field oriented control. , 2016, , .		1
204	In Situ Condition Monitoring of High-Voltage Discrete Power MOSFET in Boost Converter Through Software Frequency Response Analysis. IEEE Transactions on Industrial Electronics, 2016, 63, 7693-7702.	7.9	38
205	Capacitance estimation for dc-link capacitors in a back-to-back converter based on Artificial Neural Network algorithm. , 2016, , .		20
206	Rotor-Flux-Based diagnosis method for igbt open-circuits faults in a field-oriented-control induction motor drive. , 2016, , .		4
207	Electro-thermal simulation for high power IGBTs for automotive applications. , 2016, , .		7
208	Evaluation of a diagnostic information on common electrical faults contained in signals of an inverter-fed AC IM drive with current-oriented control. , 2016, , .		1
209	A fault tolerant topology of inverter for micro-grid. , 2016, , .		1
210	Deadband Control of Doubly-Fed Induction Generator Around Synchronous Speed. IEEE Transactions on Energy Conversion, 2016, 31, 1610-1621.	5.2	13
211	An approach for fault diagnosis based on an improved k-nearest neighbor algorithm. , 2016, , .		6
212	Short Circuit Fault Tolerant System for Matrix Converter. , 2016, , .		1
213	Loadâ€currentâ€based current sensor fault diagnosis and tolerant control scheme for traction inverters. Electronics Letters, 2016, 52, 1717-1719.	1.0	25
214	Advanced condition monitoring system based on on-line semiconductor loss measurements. , 2016, , .		8
215	An improved thermal network model of the IGBT module for wind power converters considering the effects of base plate solder fatigue. IOP Conference Series: Earth and Environmental Science, 2016, 40, 012001.	0.3	1
216	Nine-phase hex-tuple inverter for five-level output based on double carrier PWM technique. , 2016, , .		3
217	Smooth control of insulated gate bipolar transistors junction temperature in a smallâ€scale wind power converter. IET Power Electronics, 2016, 9, 393-400.	2.1	10
218	A voltage clamp circuit for the real-time measurement of the on-state voltage of power transistors. , 2016, , .		3

#	Article	IF	Citations
219	Design for Reliability of Power Electronics for Grid-Connected Photovoltaic Systems. CPSS Transactions on Power Electronics and Applications, 2016, 1, 92-103.	4.4	106
220	Short-circuit characterization of 10 kV 10A 4H-SiC MOSFET. , 2016, , .		20
221	A temperature spectrum density distribution based condition evaluation method and application in IGBT. Applied Thermal Engineering, 2016, 106, 1440-1457.	6.0	15
222	Comprehensive parametric analyses of thermally aged power MOSFETs for failure precursor identification and lifetime estimation based on gate threshold voltage. , 2016, , .		12
223	Fault-Tolerant Operation of an Open-End Winding Five-Phase PMSM Drive With Short-Circuit Inverter Fault. IEEE Transactions on Industrial Electronics, 2016, 63, 595-605.	7.9	145
224	A Real-Time Multiple Open-Circuit Fault Diagnosis Method in Voltage-Source-Inverter Fed Vector Controlled Drives. IEEE Transactions on Power Electronics, 2016, 31, 1425-1437.	7.9	129
225	Galerkin method solution of a volume-averaged model for efficient conjugate heat transfer analysis. Numerical Heat Transfer, Part B: Fundamentals, 2016, 69, 1-25.	0.9	1
226	Advanced Accelerated Power Cycling Test for Reliability Investigation of Power Device Modules. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	118
227	Analysis of the Results of Accelerated Aging Tests in Insulated Gate Bipolar Transistors. IEEE Transactions on Power Electronics, 2016, 31, 7953-7962.	7.9	63
228	Monitoring chip fatigue in an IGBT module based on grey relational analysis. Microelectronics Reliability, 2016, 56, 49-52.	1.7	17
229	Thermal Rating of a Submerged Substation for Wave Power. IEEE Transactions on Sustainable Energy, 2016, 7, 436-445.	8.8	3
230	Low Stress Cycle Effect in IGBT Power Module Die-Attach Lifetime Modeling. IEEE Transactions on Power Electronics, 2016, 31, 6575-6585.	7.9	106
231	Identification of the degradation state for condition-based maintenance of insulated gate bipolar transistors: A self-organizing map approach. Microelectronics Reliability, 2016, 60, 48-61.	1.7	15
232	Remaining Useful Lifetime Estimation for Thermally Stressed Power MOSFETs Based on <sc>on</sc>-State Resistance Variation. IEEE Transactions on Industry Applications, 2016, 52, 2554-2563.	4.9	110
233	Aging Detection Capability for Switch-Mode Power Converters. IEEE Transactions on Industrial Electronics, 2016, 63, 3216-3227.	7.9	18
234	Real-Time Aging Monitoring for IGBT Modules Using Case Temperature. IEEE Transactions on Industrial Electronics, 2016, 63, 1168-1178.	7.9	98
235	Modern IGBT gate driving methods for enhancing reliability of high-power converters â€" An overview. Microelectronics Reliability, 2016, 58, 141-150.	1.7	25
236	Application of Kalman Filter to Estimate Junction Temperature in IGBT Power Modules. IEEE Transactions on Power Electronics, 2016, 31, 1576-1587.	7.9	117

#	Article	IF	Citations
237	DBC Switch Module for Management of Temperature and Noise in 220-W/in<sup>3</sup> Power Assembly. IEEE Transactions on Power Electronics, 2016, 31, 2387-2394.	7.9	8
238	An Open-Switch Fault Diagnosis Method for Single-Phase PWM Rectifier Using a Model-Based Approach in High-Speed Railway Electrical Traction Drive System. IEEE Transactions on Power Electronics, 2016, 31, 3816-3826.	7.9	145
239	Analysis and implementation of power management and control strategy for six-phase multilevel ac drive system in fault condition. Engineering Science and Technology, an International Journal, 2016, 19, 31-39.	3.2	15
240	Voltage Vector Error Fault Diagnosis for Open-Circuit Faults of Three-Phase Four-Wire Active Power Filters. IEEE Transactions on Power Electronics, 2017, 32, 2215-2226.	7.9	37
241	Experimental Investigation on the Effects of Narrow Junction Temperature Cycles on Die-Attach Solder Layer in an IGBT Module. IEEE Transactions on Power Electronics, 2017, 32, 1431-1441.	7.9	84
242	Current Similarity Analysis-Based Open-Circuit Fault Diagnosis for Two-Level Three-Phase PWM Rectifier. IEEE Transactions on Power Electronics, 2017, 32, 3935-3945.	7.9	58
243	Online Condition Monitoring for Both IGBT Module and DC-Link Capacitor of Power Converter Based on Short-Circuit Current Simultaneously. IEEE Transactions on Industrial Electronics, 2017, 64, 3662-3671.	7.9	65
244	Aging Precursor Identification and Lifetime Estimation for Thermally Aged Discrete Package Silicon Power Switches. IEEE Transactions on Industry Applications, 2017, 53, 251-260.	4.9	84
245	In-Service Diagnostics for Wire-Bond Lift-off and Solder Fatigue of Power Semiconductor Packages. IEEE Transactions on Power Electronics, 2017, 32, 7187-7198.	7.9	76
246	Power Routing for Cascaded H-Bridge Converters. IEEE Transactions on Power Electronics, 2017, 32, 9435-9446.	7.9	77
247	Fault Tolerance Enhance DC-DC Converter Lifetime Extension. Procedia CIRP, 2017, 59, 268-273.	1.9	3
248	Fault Prognosis for Power Electronics Systems Using Adaptive Parameter Identification. IEEE Transactions on Industry Applications, 2017, 53, 2862-2870.	4.9	71
249	Remaining Useful Lifetime Estimation for Power MOSFETs Under Thermal Stress With RANSAC Outlier Removal. IEEE Transactions on Industrial Informatics, 2017, 13, 1271-1279.	11.3	51
250	Lifetime Estimation of Insulated Gate Bipolar Transistor Modules Using Two-Step Bayesian Estimation. IEEE Transactions on Device and Materials Reliability, 2017, 17, 414-421.	2.0	13
251	Changes and challenges of photovoltaic inverter with silicon carbide device. Renewable and Sustainable Energy Reviews, 2017, 78, 624-639.	16.4	25
252	Open switch fault diagnosis methods for an AC/DC line-side converter. , 2017, , .		4
253	Cascaded H-bridge multilevel inverter with a fault detection scheme based on the statistic moments indexes. , 2017, , .		12
254	Openâ€circuit faults diagnosis in backâ€toâ€back converters of DF wind turbine. IET Renewable Power Generation, 2017, 11, 417-424.	3.1	35

#	Article	IF	Citations
255	Prognosis of power MOSFET in continuous time framework. , 2017, , .		3
256	Incipient Voltage Sensor Fault Isolation for Rectifier in Railway Electrical Traction Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 6763-6774.	7.9	46
257	Detection of aging related IGBT bond-wire lift-off using spread spectrum time domain reflectometry (SSTDR). , 2017, , .		15
258	Novel cooling technology to reduce thermal impedance and thermomechanical stress for SiC application. , 2017, , .		5
259	Lifetime prediction of IGBT modules based on linear damage accumulation. , 2017, , .		4
260	Single-stage single-phase three-level neutral-point-clamped transformerless grid-connected photovoltaic inverters: Topology review. Renewable and Sustainable Energy Reviews, 2017, 80, 197-214.	16.4	46
261	Nanoengineered materials for liquid–vapour phase-change heat transfer. Nature Reviews Materials, 2017, 2, .	48.7	431
262	Integrated Multiple-Output Synchronous Buck Converter for Electric Vehicle Power Supply. IEEE Transactions on Vehicular Technology, 2017, 66, 5752-5761.	6.3	73
263	Overview on fault-tolerant four-switch three-phase voltage source converters. Chinese Journal of Electrical Engineering, 2017, 3, 87-101.	3.4	6
264	Artificial Neural Network based DC-link capacitance estimation in a diode-bridge front-end inverter system. , 2017, , .		30
265	High-temperature characterisation and analysis of leakage-current-compensated, low-power bandgap temperatureÂsensors. Analog Integrated Circuits and Signal Processing, 2017, 93, 137-147.	1.4	7
266	Real-time monitoring solder fatigue for IGBT modules using case temperatures. HKIE Transactions, 2017, 24, 141-150.	0.1	2
267	Modular Test System Architecture for Device, Circuit, and System Level Reliability Testing and Condition Monitoring. IEEE Transactions on Industry Applications, 2017, 53, 5698-5708.	4.9	3
268	The enhancement of park current vectors technique for inverter fault detection. , 2017, , .		6
269	Solid state switches for applications at medium- and high-voltage-level. , 2017, , .		1
270	Switching Frequency Dynamic Control for DFIG Wind Turbine Performance Improvement Around Synchronous Speed. IEEE Transactions on Power Electronics, 2017, 32, 7271-7283.	7.9	14
271	Online Condition Monitoring of Power MOSFET Gate Oxide Degradation Based on Miller Platform Voltage. IEEE Transactions on Power Electronics, 2017, 32, 4776-4784.	7.9	86
272	A Fast Electro-Thermal Model of Traction Inverters for Electrified Vehicles. IEEE Transactions on Power Electronics, 2017, 32, 3920-3934.	7.9	40

#	ARTICLE	IF	CITATIONS
273	Practical Aspects in Closed-Loop Control. , 2017, , 279-291.		0
274	Three-Phase VSI Optimal Switching Loss Reduction Using Variable Switching Frequency. IEEE Transactions on Power Electronics, 2017, 32, 6570-6576.	7.9	45
275	A Robust Observer-Based Method for IGBTs and Current Sensors Fault Diagnosis in Voltage-Source Inverters of PMSM Drives. IEEE Transactions on Industry Applications, 2017, 53, 2894-2905.	4.9	182
276	Fault-Diagnosis and Fault-Tolerant-Control in Industrial Processes and Electrical Drives. Studies in Systems, Decision and Control, 2017, , 101-120.	1.0	6
277	Thermal Coupling Analysis in a Multichip Paralleled IGBT Module for a DFIG Wind Turbine Power Converter. IEEE Transactions on Energy Conversion, 2017, 32, 80-90.	5.2	41
278	An Investigation of Temperature-Sensitive Electrical Parameters for SiC Power MOSFETs. IEEE Transactions on Power Electronics, 2017, 32, 7954-7966.	7.9	85
279	Logic-Based Methods for Intelligent Fault Diagnosis and Recovery in Power Electronics. IEEE Transactions on Power Electronics, 2017, 32, 5573-5589.	7.9	61
280	A proposed voltage technique for inverter open fault-circuit detection based on SVM strategy. , 2017, , .		2
281	IGBTs and current sensors fault diagnosis in direct-drive PSMG wind turbine systems using adaptive thresholds. , 2017, , .		6
282	Condition monitoring and sensor based robust protection for inverter fed induction motor drive system. , 2017, , .		1
283	A Prognostic Model for Stochastic Degrading Systems With State Recovery: Application to Li-Ion Batteries. IEEE Transactions on Reliability, 2017, 66, 1293-1308.	4.6	54
284	A single fault diagnostics approach for power switches, speed sensors and current sensors in regenerative PMSM drives. , 2017, , .		8
285	Multi-mode kernel principal component analysisâ€"based incipient fault detection for pulse width modulated inverter of China Railway High-speed 5. Advances in Mechanical Engineering, 2017, 9, 168781401772738.	1.6	22
286	Lifetime prediction of power devices in Maglev choppers using physics-based electro-thermo-mechanical model. , 2017, , .		2
287	Active methods to improve reliability in power electronics. , 2017, , .		3
288	Thermal network parameters identifying during the cooling procedure of IGBT module. , 2017, , .		6
289	Online collector-emitter saturation voltage measurement for the in-situ temperature estimation of a high-power 4.5 kV IGBT module. , 2017, , .		1
290	Live condition monitoring of switching devices using SSTDR embedded PWM sequence: A platform for intelligent gate-driver architecture. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
291	The effect of load properties on the reliability of machine drives â€" The temperature and stress analysis of power module bond wires. , 2017, , .		21
292	Fault-tolerant operation of DFIG-WT with four-switch three-phase grid-side converter by applying a simplified SVPWM technique. , 2017, , .		2
293	Sensitivity analysis of switching electrical parameters of semiconductor devices for wind turbine converters. , 2017, , .		2
294	Lifetime prognostics of hybrid backup power system: State-of-the-art. , 2017, , .		1
295	Capacitance estimation algorithm based on DC-link voltage harmonics using artificial neural network in three-phase motor drive systems. , 2017, , .		32
296	Condition monitoring of power electronic converters in power plants â€" A review. , 2017, , .		40
297	Prognosis of enhance mode gallium nitride high electron mobility transistors using on-state resistance as fault precursor. , 2017, , .		3
298	Wavelet decomposition based fault detection in cascaded H-bridge multilevel inverter using artificial neural network. , 2017, , .		11
299	Analisis Produksi Energi dari Inverter pada Grid-connected PLTS 1 MWp di Desa Kayubihi Kabupaten Bangli. Majalah Ilmiah Teknologi Elektro, 2017, 16, 131.	0.1	2
300	On-Line Junction Temperature Monitoring of Switching Devices with Dynamic Compact Thermal Models Extracted with Model Order Reduction. Energies, 2017, 10, 189.	3.1	31
301	Simultaneous On-State Voltage and Bond-Wire Resistance Monitoring of Silicon Carbide MOSFETs. Energies, 2017, 10, 384.	3.1	25
302	Rotating Machinery Fault Diagnosis for Imbalanced Data Based on Fast Clustering Algorithm and Support Vector Machine. Journal of Sensors, 2017, 2017, 1-15.	1.1	25
303	Data-Driven Incipient Sensor Fault Estimation with Application in Inverter of High-Speed Railway. Mathematical Problems in Engineering, 2017, 2017, 1-13.	1.1	33
304	Fault detection of switches in multilevel inverter using wavelet and neural network. , 2017, , .		4
305	Investigation into reliability assessment of power semiconductor for hybrid DC switch application. , 2017, , .		0
306	Aging precursors and degradation effects of SiC-MOSFET modules under highly accelerated power cycling conditions. , 2017, , .		33
307	Effect of Non-Linear Mechanical Properties on Thermal Fatigue for Aluminum Wire Bonding of Power Module. Journal of Smart Processing, 2017, 6, 144-148.	0.1	0
308	Liquid Metal Magnetohydrodynamic Pump for Junction Temperature Control of Power Modules. IEEE Transactions on Power Electronics, 2018, 33, 10583-10593.	7.9	38

#	ARTICLE	IF	CITATIONS
309	Online junction temperature for off-the-shelf power converters. , 2018, , .		3
310	Increasing the reliability of wind turbines using condition monitoring of semiconductor devices: a review. IET Renewable Power Generation, 2018, 12, 182-189.	3.1	24
311	Reliability Improvement for a High-Power IGBT in Wind Energy Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 7129-7137.	7.9	50
312	Alternative Breed of Three-Phase Four-Wire Shunt Compensators Based on the Cascaded Transformer With Single DC Link. IEEE Transactions on Industry Applications, 2018, 54, 2492-2505.	4.9	8
313	A Carrier-Based PWM for Three-Level T-Type Inverter to Tolerate Open-Circuit Fault. IEEE Transactions on Power Electronics, 2018, 33, 8787-8796.	7.9	29
314	Failure analysis of solder layer in power transistor. Soldering and Surface Mount Technology, 2018, 30, 49-56.	1.5	11
315	Study on lifetime prediction considering fatigue accumulative effect for die–attach solder layer in an IGBT module. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 613-621.	1.4	10
316	Junction temperature estimation of SiC MOSFETs based on Extended Kalman Filtering. , 2018, , .		8
317	A new structure for multilevel inverters intended to increase the operation reliability. , 2018, , .		1
318	Thermal resistor and capacitor parameter identification using cooling curve of IGBT module. , 2018, , .		3
319	Asset Management Strategies for Power Electronic Converters in Transmission Networks: Application to Hvdc and FACTS Devices. IEEE Access, 2018, 6, 21084-21102.	4.2	39
320	Real-Time Measurement of Temperature Sensitive Electrical Parameters in SiC Power MOSFETs. IEEE Transactions on Industrial Electronics, 2018, 65, 2663-2671.	7.9	100
321	Investigation and Emulation of Junction Temperature for High-Power IGBT Modules Considering Grid Codes. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 930-940.	5.4	15
322	Starting and Braking of a Large Variable Speed Hydrogenerating Unit Subjected to Converter and Sensor Faults. IEEE Transactions on Industry Applications, 2018, 54, 3372-3382.	4.9	30
323	DC–AC Converter-Fed Induction Motor Drive With Fault-Tolerant Capability Under Open- and Short-Circuit Switch Failures. IEEE Transactions on Power Electronics, 2018, 33, 1609-1621.	7.9	67
324	Converter Monitoring Unit for Retrofit of Wind Power Converters. IEEE Transactions on Power Electronics, 2018, 33, 4342-4351.	7.9	15
325	Power Cycling Test Methods for Reliability Assessment of Power Device Modules in Respect to Temperature Stress. IEEE Transactions on Power Electronics, 2018, 33, 2531-2551.	7.9	155
326	A Review of Power Electronic Converters for Variable Speed Pumped Storage Plants: Configurations, Operational Challenges, and Future Scopes. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 103-119.	5.4	108

#	Article	IF	Citations
327	Primary Source Inductive Energy Analysis Based Real-Time Multiple Open-Circuit Fault Diagnosis in Two-Level Three-Phase PWM Boost Rectifier. IEEE Transactions on Power Electronics, 2018, 33, 3411-3423.	7.9	38
328	Reliability Modeling and Evaluation of MMCs Under Different Redundancy Schemes. IEEE Transactions on Power Delivery, 2018, 33, 2087-2096.	4.3	57
329	A review of the state-of-the-art in wind-energy reliability analysis. Renewable and Sustainable Energy Reviews, 2018, 81, 1643-1651.	16.4	53
330	Lifetime-Based Power Routing in Parallel Converters for Smart Transformer Application. IEEE Transactions on Industrial Electronics, 2018, 65, 1675-1684.	7.9	39
331	Dynamic Performance of Pumping Mode of 250 MW Variable Speed Hydro-Generating Unit Subjected to Power and Control Circuit Faults. IEEE Transactions on Energy Conversion, 2018, 33, 430-441.	5.2	82
332	Validation of Lifetime Prediction of IGBT Modules Based on Linear Damage Accumulation by Means of Superimposed Power Cycling Tests. IEEE Transactions on Industrial Electronics, 2018, 65, 3520-3529.	7.9	61
333	Time-Series Classification Methods: Review and Applications to Power Systems Data. , 2018, , 179-220.		63
334	Junction Temperature Measurement Method for Power mosfets Using Turn-On Delay of Impulse Signal. IEEE Transactions on Power Electronics, 2018, 33, 5274-5282.	7.9	30
335	A Novel Fault-Tolerant Converter Topology for Induction Motor Drive. , 2018, , .		2
336	Best Practices for Improving the Reliability of Power Electronic Assets in a large Oil and Gas Facility. , 2018, , .		0
337	Condition Monitoring in a Power Module Using On-State Resistance and Case Temperature. IEEE Access, 2018, 6, 67108-67117.	4.2	10
338	Long Term Reliability of Power Modules with Low Amplitude Thermomechanical Stresses and Initial Defects. , 2018, , .		2
339	Thermal Analysis of Modular Multilevel Converters Under Subsynchronous Oscillation. , 2018, , .		4
340	Lifetime Prediction of Boost, Z-source and Y-source Converters in a Fuel Cell Hybrid Electric Vehicle Application. Electric Power Components and Systems, 2018, 46, 1979-1991.	1.8	4
341	Microgrid Reliability Evaluation Based on Condition-Dependent Failure Models of Power Electronic Devices. , 2018, , .		1
342	Lifetime estimation of off-the-shelf aerospace power converters. IEEE Aerospace and Electronic Systems Magazine, 2018, 33, 26-38.	1.3	17
343	Diagnosis of PWM Power Inverter Based on Fuzzy Logic and Concordia Current Pattern. , 2018, , .		0
344	Selection of Observer Gains in an Observer-Based Fault Detection System for a Digitally Controlled DC-DC Converter. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
345	Condition monitoring the thermal path degradation of IGBT module using the time constants of junction temperature cooling curves. , 2018, , .		5
346	SiC Device Junction Temperature Online Monitoring. , 2018, , .		12
347	Oil Spill Candidate Detection from SAR Imagery Using Threasholding-Guided Maximally Stable Extremal Regions Algorithm. , 2018, , .		2
348	Diode Junction Temperature Measurement from Power Converter Output Voltage. , 2018, , .		1
349	Support Vector Regression Assisted Auxiliary Particle Filter based Remaining Useful Life Estimation of GaN FET. , 2018, , .		4
350	LF-OCT Based Non-Destructive Testing for IGBT Module. , 2018, , .		0
351	Fault Diagnosis of Three-phase Full-bridge Rectifier Circuit based on Deep Neural Network. , 2018, , .		0
352	Investigation of Reliability Aspects of Photovoltaic Quasi Z-Source Inverter. , 2018, , .		2
353	Modelling Framework for Parallel SiC Power MOSFETs Chips in Modules developed by Planar Technology. , 2018, , .		1
354	Classification of Different Types of Faults in a Photovoltaic System. , 2018, , .		12
355	Notice of Violation of IEEE Publication Principles: Power Factor Correction in Z-Source Resonant Converter for Wireless Power Transfer Applications. , 2018, , .		0
356	LPV Model Based Sensor Fault Diagnosis and Isolation for Permanent Magnet Synchronous Generator in Wind Energy Conversion Systems. Applied Sciences (Switzerland), 2018, 8, 1816.	2.5	14
357	Exploring the Electro-Thermal Parameters of Reliable Power Modules: Insulated Gate Bipolar Transistor Junction and Case Temperature. Energies, 2018, 11, 2371.	3.1	6
358	Thermal Monitoring of Power Electronic Modules Using Device Self-Sensing. , 2018, , .		10
359	Online Condition Monitoring of Bond Wire Degradation in Inverter Operation. , 2018, , .		5
360	Improved Diagnosis Method for VSI Fed IM Drives Under Open IGBT Faults. , 2018, , .		6
361	New Energy Empowerment Using Kernel Principal Component Analysis in Insulated Gate Bipolar Transistors Module Monitoring. Sustainability, 2018, 10, 3644.	3.2	1
362	Coordinated On-line Junction Temperature Estimation and Prognostic of SiC Power Modules. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
363	Mechanism Analysis of Bond Wire Degradation Leading to the Increase of IGBT Collector-Emitter Voltage. , 2018, , .		3
364	Effect of short circuit aging on safe operating area of SiC MOSFET. Microelectronics Reliability, 2018, 88-90, 645-651.	1.7	8
365	Using the Case Temperature Cooling Curves to Monitor the Thermal Impedance of IGBT Module and TIM. , 2018, , .		0
366	Drive Schedule Impacts to Thermal Design Requirements and the Associated Reliability Implications in Electric Vehicle Traction Drive Inverters. , 2018, , .		2
367	A Study on Passive Cooling in Subsea Power Electronics. IEEE Access, 2018, 6, 67543-67554.	4.2	7
368	Impact of Accelerated Stress-Tests on SiC MOSFET Precursor Parameters. , 2018, , .		17
369	Failure Mechanism Analysis and Physics-of-Failure Lifetime Prediction Method for Press-Pack Thyristor of Converter Valve. , 2018, , .		1
370	Investigation of degradation mechanisms in low-voltage p-channel power MOSFETs under High Temperature Gate Bias stress. Microelectronics Reliability, 2018, 88-90, 438-442.	1.7	6
371	Implementation of direct Chip junction temperature measurement in high power IGBT module in operation â€" Railway traction converter. Microelectronics Reliability, 2018, 88-90, 1305-1310.	1.7	12
372	Thermal modeling of wire-bonded power modules considering non-uniform temperature and electric current interactions. Microelectronics Reliability, 2018, 88-90, 1135-1140.	1.7	15
373	Online condition monitoring of IGBT modules using voltage change rate identification. Microelectronics Reliability, 2018, 88-90, 486-492.	1.7	14
374	A review of data-driven prognostic for IGBT remaining useful life. Chinese Journal of Electrical Engineering, 2018, 4, 73-79.	3.4	32
375	A prognostic methodology for power MOSFETs under thermal stress using echo state network and particle filter. Microelectronics Reliability, 2018, 88-90, 350-354.	1.7	20
376	Active thermal control for delaying maintenance of power electronics converters. Chinese Journal of Electrical Engineering, 2018, 4, 13-20.	3.4	12
377	Kernel Entropy-Based Classification Approach for Superbuck Converter Circuit Fault Diagnosis. IEEE Access, 2018, 6, 45504-45514.	4.2	20
378	Online Health Monitoring of Multiple MOSFETs in a Grid-Tied PV Inverter using Spread Spectrum Time Domain Reflectometry (SSTDR). , 2018, , .		6
379	A Geometry based IK Solver and B-Spline Method for Trajectory Tracking of 5-DOF Manipulators. , 2018, , .		0
380	A COR Optimized FUZZY-PI controller for interconnected AGC system. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
382	Experiment and FDTD Simulation of Antenna for the Microwave CT. , 2018, , .		0
383	An Active Equilibrium Intelligent Protector of Lithium Battery Based on Outliers Detection. , 2018, , .		0
384	Application of an Improved Lifting Wavelet Method in the GNSS/INS Integrated Navigation Receiver. , 2018, , .		0
387	State of health (SOH) estimation of multiple switching devices using a single intelligent gate driver module. , 2018, , .		9
388	On condition monitoring of high frequency power GaN converters with adaptive prognostics. , 2018, , .		12
389	Active power cycling and condition monitoring of IGBT power modules using reflectometry. , 2018, , .		18
390	Methods for monitoring 3-D temperature distributions in power electronic modules. , 2018, , .		18
391	Open-circuit fault diagnosis of power rectifier using sparse autoencoder based deep neural network. Neurocomputing, 2018, 311, 1-10.	5.9	66
392	Versatile MOR-based boundary condition independent compact thermal models with multiple heat sources. Microelectronics Reliability, 2018, 87, 194-205.	1.7	14
393	Fault-Tolerant Control Strategy for Neutral-Point-Clamped Three-Level Inverter. Journal of Control Science and Engineering, 2018, 2018, 1-9.	1.0	5
394	Recent advances in prognostics and health management for advanced manufacturing paradigms. Reliability Engineering and System Safety, 2018, 178, 255-268.	8.9	192
395	A Multi-mode Incipient Sensor Fault Detection and Diagnosis Method for Electrical Traction Systems. International Journal of Control, Automation and Systems, 2018, 16, 1783-1793.	2.7	49
396	Power Electronic Modules. , 2018, , 157-173.		6
397	Design for Reliability of Power Electronic Systems. , 2018, , 1423-1440.		38
398	Matrix Converter Open-Circuit Fault Behavior Analysis and Diagnosis With a Model Predictive Control Strategy. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1831-1839.	5.4	13
399	Online diagnostic method of open-switch faults in PWM voltage source rectifier based on instantaneous AC current distortion. IET Electric Power Applications, 2018, 12, 447-454.	1.8	23
400	Post-Fault Operation Strategy for Single Switch Open-Circuit Faults in Electric Drives. IEEE Transactions on Industry Applications, 2018, 54, 2381-2391.	4.9	13
401	Low-cost post power switch open-circuit fault operation approach for an IPMSM drive. Journal of Engineering, 2018, 2018, 552-557.	1.1	0

#	ARTICLE	IF	CITATIONS
402	Modified hybrid model of boost converters for parameter identification of passive components. IET Power Electronics, 2018, 11, 764-771.	2.1	17
403	Fault-Tolerant Control Strategies for T-Type Three-Level Inverters Considering Neutral-Point Voltage Oscillations. IEEE Transactions on Industrial Electronics, 2019, 66, 2837-2846.	7.9	39
404	Health Assessment Method for Electronic Components Subject to Condition Monitoring and Hard Failure. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 138-150.	4.7	40
405	A Comprehensive Review Toward the State-of-the-Art in Failure and Lifetime Predictions of Power Electronic Devices. IEEE Transactions on Power Electronics, 2019, 34, 4729-4746.	7.9	117
406	Fault-Tolerant Control Strategy of the Open-Winding Inverter for DC-Biased Vernier Reluctance Machines. IEEE Transactions on Power Electronics, 2019, 34, 1658-1671.	7.9	25
407	A VEN Condition Monitoring Method of DC-Link Capacitors for Power Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 1296-1306.	7.9	57
408	Compressed Sensing Method for IGBT High-Speed Switching Time On-Line Monitoring. IEEE Transactions on Industrial Electronics, 2019, 66, 3185-3195.	7.9	20
409	Reliability assessment of wind turbine bearing based on the degradation-Hidden-Markov model. Renewable Energy, 2019, 132, 1076-1087.	8.9	60
410	A Uniform Modeling Method Based on Open-Circuit Faults Analysis for NPC-Three-Level Converter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 457-461.	3.0	47
411	Wear-Out Condition Monitoring of IGBT and mosfet Power Modules in Inverter Operation. IEEE Transactions on Industry Applications, 2019, 55, 6184-6192.	4.9	42
412	Prediction of IGBT power module remaining lifetime using the aging state approach. Microelectronics Reliability, 2019, 102, 113476.	1.7	12
413	A Non-Invasive Method for Estimating Circuit and Control Parameters of Voltage Source Converters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4911-4921.	5.4	17
414	An immersed jet array impingement cooling device with distributed returns for direct body liquid cooling of high power electronics. Applied Thermal Engineering, 2019, 162, 114259.	6.0	50
415	A Case Study for Reliability Evaluation of an External Computer Power Supply. Electric Power Components and Systems, 2019, 47, 444-455.	1.8	2
416	Internal Voltage Phase-Amplitude Dynamic Analysis With Interface Friendly Back-To-Back Power Converter Average Model for Less Power Electronics-Based More-Electric Ship. IEEE Access, 2019, 7, 93339-93351.	4.2	5
417	Power MOSFET Intrinsic Diode as a Highly Linear Junction Temperature Sensor. IEEE Sensors Journal, 2019, 19, 11034-11040.	4.7	4
418	A Novel IGBT Health Evaluation Method Based on Multi-Label Classification. IEEE Access, 2019, 7, 47294-47302.	4.2	6
419	Effect of Potting Material on Reliability and EMC Performance of LED Drivers. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1542-1548.	2.5	0

#	ARTICLE	IF	CITATIONS
420	A Health Monitoring Method for Bond Wires in IGBT Modules Based on Voltage Ringing Characteristics. IEEE Transactions on Electron Devices, 2019, 66, 3953-3960.	3.0	15
421	Combined Model Predictive Control Strategies to Improve the Reliability of IGBT Module in Doubly Fed Wind Power Converter. , 2019, , .		0
422	Faultâ€tolerant switched capacitorâ€"based boost multilevel inverter. International Journal of Circuit Theory and Applications, 2019, 47, 1615-1629.	2.0	10
423	Bond Wire Damage Detection and State of Health Estimation of a 1200V, 900A Dual Pack IGBT Power Module using the RL-Equivalent Circuit. , 2019, , .		6
424	Online Condition Monitoring of IGBT Modules Using Gate-Charge Identification. , 2019, , .		3
425	Simplified on-line monitoring system of MOSFET on-resistance based on a semi-empirical model. , 2019, , .		2
426	A Survey of Condition Monitoring and Fault Diagnosis toward Integrated O&M for Wind Turbines. Energies, 2019, 12, 2801.	3.1	42
427	Investigation of the aging of power GaN HEMT under operational switching conditions, impact on the power converters efficiency. Microelectronics Reliability, 2019, 100-101, 113403.	1.7	4
428	Modular application relevant stress testing for next generation power semiconductors. Microelectronics Reliability, 2019, 100-101, 113330.	1.7	3
429	Monitoring of the Cooling System via Thermal Parameters. IEEE Access, 2019, 7, 138110-138121.	4.2	7
430	Online Fatigue Estimation and Prediction of Switching Device in Urban Railway Traction Converter Based on Current Recognition and Gray Model. IEEE Access, 2019, 7, 123307-123319.	4.2	3
431	Joint Estimation of MOSFET Degradation in a DC-DC Converter Using Extended Kalman Filter. , 2019, , .		2
432	Application of Artificial and recurrent neural network on the steady-state and transient finite element modeling. , 2019, , .		3
433	Real-Time Deep Learning at the Edge for Scalable Reliability Modeling of Si-MOSFET Power Electronics Converters. IEEE Internet of Things Journal, 2019, 6, 7375-7385.	8.7	34
434	IoT-Based Degradation Management for Self-Healing Power Converters. , 2019, , .		6
435	Analysis and Modeling for the Real-Time Condition Evaluating of MOSFET Power Device Using Adaptive Neuro-Fuzzy Inference System. IEEE Access, 2019, 7, 6510-6518.	4.2	3
436	Open-Circuit Fault Analysis and Modeling for Power Converter Based on Single Arm Model. Electronics (Switzerland), 2019, 8, 633.	3.1	10
437	Open Switch Fault Diagnosis Method for PWM Voltage Source Rectifier Based on Deep Learning Approach. IEEE Access, 2019, 7, 66595-66608.	4.2	34

#	Article	IF	Citations
438	Application of Nonlinear Fracture Mechanics Parameter to Predicting Wire-Liftoff Lifetime of Power Module at Elevated Temperatures. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1604-1614.	5.4	15
439	A new approach for on-line open-circuit fault diagnosis of inverters based on current trajectory. Journal of Central South University, 2019, 26, 743-758.	3.0	5
440	Design and Characterizations of a Planar Multichip Half-Bridge Power Module by Pressureless Sintering of Nanosilver Paste. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1627-1636.	5.4	13
441	Open-Switch Fault Diagnosis Method in Voltage-Source Inverters Based on Phase Currents. IEEE Access, 2019, 7, 63619-63625.	4.2	38
442	An Improved Open-Switch Fault Diagnosis Technique of a PWM Voltage Source Rectifier Based on Current Distortion. IEEE Transactions on Power Electronics, 2019, 34, 12212-12225.	7.9	30
443	Smart Inverters for Microgrid Applications: A Review. Energies, 2019, 12, 840.	3.1	79
444	Extreme learning machine optimized by whale optimization algorithm using insulated gate bipolar transistor module aging degree evaluation. Expert Systems With Applications, 2019, 127, 58-67.	7.6	63
445	Partial discharge measurement and analysis in PPIs. IET Power Electronics, 2019, 12, 138-146.	2.1	16
446	A Sensorless and Adaptive Control Strategy for a Wind Turbine Based on the Surface-Mounted Permanent Magnet Synchronous Generator and PWM-CSC. , 2019, , .		1
447	Thermal Breakdown Failure Mechanisms of IGBT Chips. IOP Conference Series: Earth and Environmental Science, 0, 223, 012024.	0.3	3
448	Research on Breakthrough Failure of IGBT Chip. IOP Conference Series: Earth and Environmental Science, 2019, 223, 012025.	0.3	2
449	A Carrier-Based Fault-Tolerant Control Strategy for T-Type Rectifier With Neutral-Point Voltage Oscillations Suppression. IEEE Transactions on Power Electronics, 2019, 34, 10988-11001.	7.9	14
450	Power Loss Prediction for Aging Characteristics and Condition Monitoring for Parallel-Connected Power Modules Using Nonlinear Autoregressive Neural Network. Complexity, 2019, 2019, 1-10.	1.6	1
451	A Simple Closed-Loop Active Gate Voltage Driver for Controlling diC/dt and dvCE/dt in IGBTs. Electronics (Switzerland), 2019, 8, 144.	3.1	7
452	Status Detection System for Power Plugs Based on Data Sampling. , 2019, , .		0
453	Mixed modelâ€based and signalâ€based approach for openâ€switches fault diagnostic in sensorless speed vector controlled induction motor drive using sliding mode observer. IET Power Electronics, 2019, 12, 1149-1159.	2.1	34
454	Shadowgraphic Imaging of Cavitation Bubble Dynamics in Pulsed Laser Ablation of a Solid in Liquid. , 2019, , .		1
455	The Role and Prospects of IoT and Cloud Computing in Remote Health Monitoring. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
456	Analysis and Classification of Time Domain Features of Pulse Manifestation Signals between Different Genders. , 2019, , .		1
457	Soft-Switching Technology Based NPC-CI voltage balance for DC Port Failure. , 2019, , .		0
458	A New Prediction Model of SF6 Alternative Gases in Electrical Strength. , 2019, , .		1
459	Chaotic Behavior of Battery State of Health. , 2019, , .		1
460	ICIMTech 2019 Committees. , 2019, , .		0
461	A Device to Measure Snow Specific Surface Area Using SWIR Reflectance. , 2019, , .		0
462	Novel Subblock Partitioning for PTS Based PAPR Reduction of OFDM Signals. , 2019, , .		3
463	Selection of Hydraulic Cylinder on Transmission Mechanism of UHV Insulation Test Platform. , 2019, , .		0
464	Properties of the Conditional Mean Estimator in Poisson Noise. , 2019, , .		1
465	Improved Sensing Properties of Amino Acid on Black Phosphorene: A Computational Study. , 2019, , .		1
466	Weakly Informed Audio Source Separation. , 2019, , .		18
467	Panel - Towards Conceptual Modeling for Hybrid Simulation: Setting the Scene. , 2019, , .		3
469	Gait Conversion of Quadruped Bionic Robot Based on CPG Control. , 2019, , .		1
470	P4BFT: Hardware-Accelerated Byzantine-Resilient Network Control Plane. , 2019, , .		7
471	Coordinated Spectrum Sharing Framework for beyond 5G Cellular Networks. , 2019, , .		1
472	The network layer model of the wireless sensor network acting under the influence of interferences. , 2019, , .		0
473	A Comprehensive Modeling Framework for Ferroelectric Tunnel Junctions. , 2019, , .		22
474	Extreme Case of Spectral Band Difference Correction Between the Osiris-Rex-Navcam2 Dscovr-Epic Imagers. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
475	a-Si:H/c-Si interface hydrogenation for implied Voc = 755 mV in Silicon heterojunction solar cell. , 2019, , .		2
476	Role-Based Ecosystem for the Design, Development, and Deployment of Secure Multi-Party Data Analytics Applications. , 2019, , .		0
477	Improvement of Character Segmentation for Indonesian License Plate Recognition Algorithm using CNN. , 2019, , .		6
478	Combustion Furnace Control Based on Feedforward-Fuzzy Decoupling. , 2019, , .		0
479	Design and Characteristic Calibration of TEM Cell for IC Radiation EMC Test. , 2019, , .		0
480	Promoting Entrepreneurial Mindset Development in Engineering Students: Combining Story-based Learning with Experiential Design. , 2019, , .		3
481	A Case Study in Constructivist Pedagogy in a Computer Organization Course. , 2019, , .		1
482	Bandwidth and Input Reflection Coefficient Enhancement for Printed Elliptical Monopole Antenna. , 2019, , .		0
483	IoT Enabled Smart Water Distribution and Underground Pipe Health Monitoring Architecture for Smart Cities. , 2019, , .		7
484	Analytical Modeling and Optimization of a Permanent Magnet Machine With Two-Segment Bread-Loaf Magnets. , 2019, , .		0
485	A Vector Rotation-based Nonlinear Support Vector Regression Model for Envelope Tracking RF Power Amplifiers. , 2019, , .		1
486	Azimuth Position Control for Deep Space Antenna using Fuzzy Logic Controller. , 2019, , .		2
487	Analysis and Simulation of Neutral Point Potential Oscillation Characteristic of T-type Three-level Converter under Switch Open-circuit Fault. , 2019, , .		2
488	Linear Induction Motors Tractive Force Components Analysis with Regard to the Motorsâ€™ Electromagnetic No-Symmetry. , 2019, , .		1
489	Improving Filter-Compensating Devices in Power Supply Systems of Mine Hoists. , 2019, , .		0
490	A Robotic Charging Scheme for Electric Vehicles Based on Monocular Vision and Force Perception. , 2019, , .		4
491	Economic Performance Optimization by Set Point and Weighting Parameter Tuning based on LQG Controller Design. , 2019, , .		0
493	Simplified Three-Level SVPWM Algorithm in abc Coordinate System. , 2019, , .		2

#	Article	IF	Citations
494	Application of Single Pulse Dynamics to Model Program and Erase Cycling-Induced Defects in the Tunnel Oxide of Charge-Trapping Devices. , 2019, , .		1
495	Optimal Task Assignment and Power Allocation for Downlink NOMA MEC Networks. , 2019, , .		7
496	Robust H2 and Hâˆž controller design for DC position motor control under uncertainties. , 2019, , .		2
497	G3M: A heuristic for low-latency multicast back-pressure forwarding. , 2019, , .		1
499	An Improved Lateral-coupling Thermal Impedance Model of a Half-Bridge Power Module under Inverter Operations. , 2019, , .		1
500	Losses in a surface wave sensor in contact with electrolyte solutions. , 2019, , .		1
501	Nanoseconds Switching Time Monitoring of Insulated Gate Bipolar Transistor Module by Under-Sampling Reconstruction of High-Speed Switching Transitions Signal. Electronics (Switzerland), 2019, 8, 1203.	3.1	4
503	A Day-Ahead Scheduling Method for Heat-Power Energy Station Considering Thermal Inertia of Heating Network. , 2019, , .		0
504	Clustering of Spatial Data with DBSCAN: An Assessment of STARK. , 2019, , .		0
505	Fault-Tolerant Design of Three-phase Dual-Buck VSI Topologies. , 2019, , .		3
506	SimFS: A Simulation Data Virtualizing File System Interface. , 2019, , .		3
507	Performance of Flexible Non-contact Electrodes in Bioelectrical Signal Measurements. , 2019, , .		4
508	Advanced Solutions for Communication in Cooperative Cyber Physical Systems. , 2019, , .		0
510	An Online Monitoring Scheme of Output Capacitorâ€™s ESR for DCM Buck. , 2019, , .		0
511	ICT, Inclusion and Pedagogical Diferention: Exploratory Study. , 2019, , .		0
512	A Numerical Method for Wind Farm Condition-Based Maintenance Policy Assessment. , 2019, , .		0
513	Accurate Memory Bitmapping based on Built-in Self-Test: Challenges and Solutions. , 2019, , .		0
514	Dependable Parallel Multi-population Improved Brain Storm Optimization with Differential Evolution for On-line Energy Plant Optimal Operation Planning. , 2019, , .		2

#	Article	IF	Citations
515	Subpixel Urban Mapping Over the Conterminous U.S. (CONUS) Using S-NPP VIIRS. , 2019, , .		0
516	Measurement of the temperature-dependent speed of sound and change in Grüneisen parameter of tissue-mimicking materials. , 2019, , .		1
517	Evaluation the Potential Performance of the DCT-Transformants Non-Equilibrium Positional Encoding Method. , 2019, , .		0
518	Platoon as a Mobile Vehicular Cloud. , 2019, , .		3
519	A fuzzy goal programming approach for solving fuzzy multi-objective stochastic linear programming problem. , 2019, , .		1
520	Android Malware Detection Based on Naive Bayes. , 2019, , .		4
521	Package Fatigue Failure Evolution of IGBT Modules. , 2019, , .		2
522	Voltage-Balancing Strategy for Three-Level Neutral Point Clamped Cascade Converter under Sequence Pulse Modulation. Energies, 2019, 12, 3829.	3.1	1
523	Optimized Public Parking Location Modelling for Green Intelligent Transportation System Using Genetic Algorithms. IEEE Access, 2019, 7, 176870-176883.	4.2	27
524	Speed sensorless control strategy for six‐phase linear induction motor based on the dual reduced‐dimensional serial extended Kalman filters. IET Power Electronics, 2019, 12, 3758-3766.	2.1	9
525	From Classical to Semi-Quantum Secure Communication. , 2019, , .		1
526	Design and Implementation Serious Game â€œTic Tac Toe Mathâ€. , 2019, , .		1
527	Techno-Economic Analysis of Building Integrated Photovoltaics Electrical Installations. , 2019, , .		1
528	Design of low power 4-bit Flash ADC in 90nm CMOS Process. , 2019, , .		5
529	Fault‐tolerant compensation control for T‐type three‐level inverter with zero‐sequence voltage injection. IET Power Electronics, 2019, 12, 3774-3781.	2.1	6
530	Simulation Study of the Effects of Synchronous Generator Parameter Deviations on the Performance of a DFIM-SPS. , 2019, , .		1
531	Application of artificial neural networks for transistor open‐circuit fault diagnosis in three‐phase rectifiers. IET Power Electronics, 2019, 12, 2189-2200.	2.1	34
532	Ultrasonic section locating method based on Hough transform. , 2019, , .		0

#	Article	IF	Citations
533	Performance Evaluation of Visual Object Detection and Tracking Algorithms Used in Remote Photoplethysmography. , 2019, , .		16
534	A Novel Assessment Method of Gate Oxide Degradation Based on IGBT Turn-on Losses for On-Line Reliability Monitoring. , 2019, , .		4
535	Reconfigurable Space- Time-Coding Through Time-Modulated Array. , 2019, , .		0
536	Temperature Distribution in a IGBT Power Module under Different Test Conditions and Load Properties. , 2019, , .		0
537	Reduced-Dimension Design of MIMO AirComp for Data Aggregation in Clustered IoT Networks. , 2019, , .		4
539	Centralized and Distributed Power Allocation for Max-Min Fairness in Cell-Free Massive MIMO. , 2019, , .		20
540	BiFeO$_3$ synthesis by conventional solid-state reaction. , 2019, , .		6
541	A Novel Planar Nolen Matrix Phased Array for MIMO Applications. , 2019, , .		7
542	Talega SynCon - Power Grid Support for Renewable-based Systems. , 2019, , .		4
543	NTIRE 2019 Challenge on Image Enhancement: Methods and Results. , 2019, , .		25
544	A Configurable Microwave Microfluidic Sensor for Medical Diagnosis and Chemical Analysis. , 2019, , .		0
545	Failure Mode, Effects and Criticality Analysis (FMECA) in Power Electronic based Power Systems. , 2019, , .		3
546	Limiting the Output Power of Rugged GaN LNAs. , 2019, , .		1
547	Finite-time Formation Control Of Multiple Vessels. , 2019, , .		0
548	Information Extraction from Twitter Using DBpedia Ontology: Indonesia Tourism Places. , 2019, , .		3
549	Open-Circuit Fault Detection of Asymmetrical Six-phase Induction Motor Fed from Z-Source Inverter. , 2019, , .		5
550	Combined Self-attention Mechanism For Biomedical Event Trigger Identification. , 2019, , .		0
551	Analyzing Tweets to Discover Twitter Users' Mental Health Status by a Word-Frequency Method. , 2019, , .		10

#	Article	IF	Citations
552	2.5D Image-based Robotic Grasping. , 2019, , .		0
553	Hybrid Condition Monitoring for Power Electronic Systems. , 2019, , .		4
554	Robust Finite-time Convergent Trajectory Tracking Control for Unmanned Surface Vehicle. , 2019, , .		3
555	Research on Application of Series Capacitor Compensation in 35kV Distribution Network. , 2019, , .		6
556	Application of Grey Correlation Analysis in Effective Utilization of Similarity-based Remaining Useful Life Prediction Methods. , 2019, , .		0
557	Modified Higher-Order Sliding Mode Observer-Based Super-Twisting Controller for Perturbed Overhead Cranes. , 2019, , .		5
558	Influences of Weighting Techniques on TOPSIS-based Network Slice Selection Function. , 2019, , .		3
559	Human Trust After Robot Mistakes: Study of the Effects of Different Forms of Robot Communication. , 2019, , .		14
560	Classification of Five Cell Types from PBMC Samples using Single Cell Transcriptomics and Artificial Neural Networks. , 2019, , .		13
561	A Study on Switch Block Patterns for Tileable FPGA Routing Architectures. , 2019, , .		19
562	Research on the Crowd Abnormal Behavior Recognition in Surveillance Video Based on Modified Social Force Model. , 2019, , .		4
563	Integration of Inertial Navigation System with Global Positioning System using Extended Kalman Filter. , 2019, , .		10
564	Spatial-Temporal Estimation of the PV Market Potential in Subareas. , 2019, , .		0
565	Design Technique on Reduction of Power Cross Regulation and Coupling in Data Center Microprocessor Power Design. , 2019, , .		0
566	Virtual Learning Environment for an Industrial Assembly Task. , 2019, , .		18
567	Modeling of Tractor Routing Problem Considering the Departure Times of Trains in Euro-China Expressway. , 2019, , .		0
568	Quantifying the Impact of Prognostic Distance on Average Cost per Cycle. , 2019, , .		0
569	Developing Software for the Shopfloor on the Shopfloor: An Ethnographic Study of Software Engineering Practices In and For the Smart Factory. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
570	Manipulation of Biomolecules Into Nanogap by Plasmonic Optical Excitation for Highly Sensitive Biosensing. , 2019, , .		0
571	A New Fuzzy Neural Network Controller Based on Compromise characteristics. , 2019, , .		0
572	Study on the Influence of Stock Index Futures on the Volatility of Spot Market. , 2019, , .		0
573	Future Distribution Generation in an Intelligent Smart Energy Network. , 2019, , .		1
574	A Robust Optimization Approach for Production Planning Under Exogenous Planned Lead Times. , 2019, , .		0
575	The Application of Non-Sinusoidal Resonance Inverter on An Ozone Generator. , 2019, , .		1
576	Online estimation scheme of output capacitor's ESR and tan δ for Buck converter. IET Power Electronics, 2019, 12, 2978-2986.	2.1	10
577	Design of 3-DoF PID Stabilizer Using Whale Optimization Algorithm to Eliminate Low Frequency Oscillation in Power System. , 2019, , .		4
578	Self-healing Model Predictive Controlled Cascaded Multilevel Inverter. , 2019, , .		8
579	Robust Fault Detection of Hybrid Switched-Capacitor Dickson Converter for Fault-Tolerant Automotive Applications. , 2019, , .		3
580	Machine Learning based Modeling of Power Electronic Converters. , 2019, , .		29
581	Application of Digital Twin Concept in Condition Monitoring for DC-DC Converter. , 2019, , .		24
582	Grid Voltage Estimation and Feedback Linearization based Control of a Three phase Grid Connected Inverter under Unbalanced Grid Conditions with LCL Filter. , 2019, , .		10
583	Real-time Bond Wire Lift-off Monitoring via Module Integrated Current Sensors. , 2019, , .		2
584	MOSFET Junction Temperature Measurements using Conducted Electromagnetic Emissions and Support Vector Machines. , 2019, , .		0
585	A Novel Approximate Model Based Fault Diagnosis Technique for a Photovoltaic DC/AC Grid Tied Inverter. , 2019, , .		3
586	A Review of Power Electronic Parametric Fault Diagnosis Methods. , 2019, , .		2
587	Security Analysis of Power Electronic-based Power Systems. , 2019, , .		3

#	Article	IF	Citations
588	A Noninvasive and Robust Diagnostic Method for Open-Circuit Faults of Three-Level Inverters. IEEE Access, 2019, 7, 2006-2016.	4.2	10
589	Synthesis of ultraâ€highâ€molecularâ€weight ethyleneâ€propylene copolymer <i>via</i> quasiâ€living copolymerization with <i>N</i>â€heterocyclic carbene ligated vanadium complexes. Journal of Polymer Science Part A, 2019, 57, 553-561.	2.3	18
590	An Online ESR Estimation Method for Output Capacitor of Boost Converter. IEEE Transactions on Power Electronics, 2019, 34, 10153-10165.	7.9	47
591	Thermal Network Parameter Estimation Using Cooling Curve of IGBT Module. IEEE Transactions on Power Electronics, 2019, 34, 7957-7971.	7.9	26
592	Thermal Parameter Monitoring of IGBT Module Using Case Temperature. IEEE Transactions on Power Electronics, 2019, 34, 7942-7956.	7.9	30
593	An ON-State Voltage Calculation Scheme of MMC Submodule IGBT. IEEE Transactions on Power Electronics, 2019, 34, 7996-8007.	7.9	13
594	An Investigation on Diagnosis-Based Power Switch Lifetime Extension Strategies for Three-Phase Inverters. IEEE Transactions on Industry Applications, 2019, 55, 2064-2075.	4.9	13
595	Monitoring 3-D Temperature Distributions and Device Losses in Power Electronic Modules. IEEE Transactions on Power Electronics, 2019, 34, 7983-7995.	7.9	39
596	<i>L-</i> and <i>LCL</i>-Filtered Grid-Tied Single-Phase Inverter Transistor Open-Circuit Fault Diagnosis Based on Post-Fault Reconfiguration Algorithms. IEEE Transactions on Power Electronics, 2019, 34, 10180-10192.	7.9	20
597	Prognostics of IGBT modules based on the approach of particle filtering. Microelectronics Reliability, 2019, 92, 96-105.	1.7	26
598	Thermal Parameter Monitoring of IGBT Module Using Junction Temperature Cooling Curves. IEEE Transactions on Industrial Electronics, 2019, 66, 8148-8160.	7.9	21
599	A new structure for multilevel inverters with fault-tolerant capability against open circuit faults. Electric Power Systems Research, 2019, 168, 105-116.	3.6	46
600	A Novel Non-Intrusive Technique for BTI Characterization in SiC mosfets. IEEE Transactions on Power Electronics, 2019, 34, 5737-5747.	7.9	52
601	Lifetime Prediction of IGBT Modules in Suspension Choppers of Medium/Low-Speed Maglev Train Using an Energy-Based Approach. IEEE Transactions on Power Electronics, 2019, 34, 738-747.	7.9	39
602	Neutral-Point-Shift-Based Active Thermal Control for a Modular Multilevel Converter Under a Single-Phase-to-Ground Fault. IEEE Transactions on Industrial Electronics, 2019, 66, 2474-2484.	7.9	26
603	A review of high performance polymer nanocomposites for packaging applications in electronics and food industries. Journal of Plastic Film and Sheeting, 2020, 36, 94-112.	2.2	66
604	A Digital Twin Approach for Fault Diagnosis in Distributed Photovoltaic Systems. IEEE Transactions on Power Electronics, 2020, 35, 940-956.	7.9	225
605	A Redundant Unit to Form T-Type Three-Level Inverters Tolerant of IGBT Open-Circuit Faults in Multiple Legs. IEEE Transactions on Power Electronics, 2020, 35, 924-939.	7.9	38

#	ARTICLE	IF	CITATIONS
606	Active Thermal Control for Hybrid Modular Multilevel Converter Under Overmodulation Operation. IEEE Transactions on Power Electronics, 2020, 35, 4242-4255.	7.9	27
607	Current observer-based online open-switch fault diagnosis for voltage-source inverter. ISA Transactions, 2020, 99, 445-453.	5.7	16
608	Measurement of Thermal Parameters of SiC MOSFET Module by Case Temperature. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 311-322.	5.4	11
609	Insulated-gate bipolar transistor junction temperature estimation based on â„â�'ž robust controller in wind energy applications. Wind Engineering, 2020, 44, 548-558.	1.9	1
610	Reliability Assessment of Multistate Degraded Systems: An Application to Power Electronic Systems. IEEE Transactions on Power Electronics, 2020, 35, 4024-4032.	7.9	17
611	A Single Method for Multiple IGBT, Current, and Speed Sensor Faults Diagnosis in Regenerative PMSM Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2583-2599.	5.4	43
612	*In situ* Degradation Monitoring of SiC MOSFET Based on Switching Transient Measurement. IEEE Transactions on Industrial Electronics, 2020, 67, 5092-5100.	7.9	39
613	Voltage Difference Residual-Based Open-Circuit Fault Diagnosis Approach for Three-Level Converters in Electric Traction Systems. IEEE Transactions on Power Electronics, 2020, 35, 3012-3028.	7.9	69
614	Adaptive Weighted VMD-WPEE Method of Power-Electronic-Circuit Multiple-Parameter-Fault Diagnosis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3878-3890.	5.4	7
615	Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. IEEE Transactions on Smart Grid, 2020, 11, 1866-1879.	9.0	56
616	Overview of Real-Time Lifetime Prediction and Extension for SiC Power Converters. IEEE Transactions on Power Electronics, 2020, 35, 7765-7794.	7.9	108
617	A Method for Improving the Thermal Shock Fatigue Failure Resistance of IGBT Modules. IEEE Transactions on Power Electronics, 2020, 35, 8532-8539.	7.9	15
618	Bond Wire Damage Detection and SOH Estimation of a Dual-Pack IGBT Power Module Using Active Power Cycling and Reflectometry. IEEE Transactions on Power Electronics, 2020, 35, 6761-6772.	7.9	16
619	Condition Monitoring of DC-Link Capacitors Using Goertzel Algorithm for Failure Precursor Parameter and Temperature Estimation. IEEE Transactions on Power Electronics, 2020, 35, 6386-6396.	7.9	52
620	Online Estimation of *ESR* for DC-Link Capacitor of Boost PFC Converter Using Wavelet Transform Based Time–Frequency Analysis Method. IEEE Transactions on Power Electronics, 2020, 35, 7755-7764.	7.9	31
621	A Reference Submodule Based Capacitor Condition Monitoring Method for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2020, 35, 6691-6696.	7.9	25
622	Accelerated Degradation of IGBTs Due to High Gate Voltage at Various Temperature Environments. IEEE Transactions on Device and Materials Reliability, 2020, 20, 731-736.	2.0	9
623	Aging Detection of Multiple Power Switches in a Live 3-Phase Inverter using Reflectometry. , 2020, , .		1

#	Article	IF	Citations
624	ESR Estimation Schemes of Output Capacitor for Buck Converter from Capacitor Perspective. Electronics (Switzerland), 2020, 9, 1596.	3.1	4
625	Review of Health Monitoring Techniques for Capacitors Used in Power Electronics Converters. Sensors, 2020, 20, 3740.	3.8	15
626	Mode identification for reliability improvement of MMC. Microelectronics Reliability, 2020, 114, 113851.	1.7	0
627	IEEE Transactions on Education publication information. IEEE Transactions on Education, 2020, 63, C2-C2.	2.4	0
628	Accelerated aging test for gate-oxide degradation in SiC MOSFETs for condition monitoring. Microelectronics Reliability, 2020, 114, 113777.	1.7	14
629	Solder Joint Reliability Modeling by Sequential Artificial Neural Network for Glass Wafer Level Chip Scale Package. IEEE Access, 2020, 8, 143494-143501.	4.2	18
630	Solder joint reliability risk estimation by AI modeling. , 2020, , .		0
631	Remaining Useful Life Prediction of an IGBT Module in Electric Vehicles Statistical Analysis. Symmetry, 2020, 12, 1325.	2.2	6
632	Open Fault Diagnosis and Tolerance Control for Grid-Connected Hybrid Active Neutral-Point- Clamped Inverters With Optimized Carrier-Based Pulse Width Modulation. IEEE Access, 2020, 8, 145542-145551.	4.2	6
633	Frequency-Adaptive Periodic Controller Design for Fault-Tolerant SPMSM Speed Control Systems. , 2020, , .		0
634	State-of-the-Art and Advancement Paths for Inductive Pulsed Plasma Thrusters. Aerospace, 2020, 7, 105.	2.2	21
635	In-situ health monitoring of IGBT modules of an on-line medium-voltage inverter system using for industrial Internet of Things. CSEE Journal of Power and Energy Systems, 2020, , .	1.1	3
636	Harmonics Cancellation of Boost Converters Based on Two-Phase Sliding Mode. , 2020, , .		1
637	Modular dynamic pulse stress test system for discrete high power semiconductors. Microelectronics Reliability, 2020, 114, 113852.	1.7	1
638	Enhance Reliability of Semiconductor Devices in Power Converters. Electronics (Switzerland), 2020, 9, 2068.	3.1	23
639	In situ thermal runaway of Si-based press-fit diodes monitored by infrared thermography. Results in Physics, 2020, 19, 103529.	4.1	9
640	Switch Open-Fault Detection for a Three-Phase Hybrid Active Neutral-Point-Clamped Rectifier. Electronics (Switzerland), 2020, 9, 1437.	3.1	9
641	An On-Line Multiple Open-Circuit Fault Diagnostic Technique for Railway Vehicle Air-Conditioning Inverters. IEEE Transactions on Vehicular Technology, 2020, 69, 7026-7039.	6.3	16

#	ARTICLE	IF	CITATIONS
642	Sensor-Fault-Estimation-Based Tolerant Control for Single-Phase Two-Level PWM Rectifier in Electric Traction System. IEEE Transactions on Power Electronics, 2020, 35, 12274-12284.	7.9	17
643	Modeling and Analysis of Performance Degradation Data for Reliability Assessment: A Review. IEEE Access, 2020, 8, 74648-74678.	4.2	22
644	A Data-Driven-Based Fault Diagnosis Approach for Electrical Power DC-DC Inverter by Using Modified Convolutional Neural Network With Global Average Pooling and 2-D Feature Image. IEEE Access, 2020, 8, 73677-73697.	4.2	67
645	Study of IGBTs Reliability Under Coupled Electrical–Thermal Environment. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4260-4268.	5.4	10
646	IOT Based Multi agent Micro Inverter for Condition Monitoring and Controlling of PV Systems. , 2020, , .		7
647	An Online Parameters Monitoring Method for Output Capacitor of Buck Converter Based on Large-Signal Load Transient Trajectory Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4004-4015.	5.4	33
648	Progress and trends in fault diagnosis for renewable and sustainable energy system based on infrared thermography: A review. Infrared Physics and Technology, 2020, 109, 103383.	2.9	28
649	Design modeling, and control of multi-stage SMES integrated with PV system. Journal of Energy Storage, 2020, 29, 101399.	8.1	14
650	Synthetic Internal Voltage Phase–Amplitude Dynamics Investigation for Electric Drivetrain Small-Signal Model in Electromechanical Control Timescale for a Wound Rotor Induction Machine-Based Shipboard Power System. IEEE Transactions on Transportation Electrification, 2020, 6, 844-855.	7.8	10
651	Fault-Tolerant SRM Drive with a Diagnosis Method Based on the Entropy Feature Approach. Applied Sciences (Switzerland), 2020, 10, 3516.	2.5	13
652	Automatic Design of CNNs via Differentiable Neural Architecture Search for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6362-6375.	6.3	39
653	Tunnel Magnetoresistance-Based Short-Circuit and Over-Current Protection for IGBT Module. IEEE Transactions on Power Electronics, 2020, 35, 10930-10944.	7.9	38
654	Inflight Performance of the TanSat Atmospheric Carbon Dioxide Grating Spectrometer. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4691-4703.	6.3	4
655	Statistical Method of Estimating Semiconductor Switching Transition Time Enabling Condition Monitoring of Megawatt Converters. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3654-3665.	4.7	3
656	Drivingon GWB: energy‐efficiency‐driven route optimisation for EVs. IET Intelligent Transport Systems, 2020, 14, 25-35.	3.0	3
657	Development of Positioning Control for Automated Installation of Pipelines Using Kalman Filter Based on Microelectromechanical System. , 2020, , .		1
658	Unified Attitude Determination Problem From Vector Observations and Hand–Eye Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3941-3957.	4.7	5
659	CubeSat-Based 5G Cloud Radio Access Networks: A Novel Paradigm for On-Demand Anytime/Anywhere Connectivity. IEEE Vehicular Technology Magazine, 2020, 15, 39-47.	3.4	15

#	ARTICLE	IF	CITATIONS
660	On Performance of Multiuser Underwater Wireless Optical Communication Systems. , 2020, , .		9
661	Fault Diagnosis of Open-Switch Failure in a Grid-Connected Three-Level Si/SiC Hybrid ANPC Inverter. Electronics (Switzerland), 2020, 9, 399.	3.1	18
662	Dynamic Safe Operating Area (SOA) of Power Semiconductor Devices. , 2020, , .		3
663	The Sensitivity of an Electro-Thermal Photovoltaic DCâ€"DC Converter Model to the Temperature Dependence of the Electrical Variables for Reliability Analyses. Energies, 2020, 13, 2865.	3.1	6
664	Degradation Detection of Power Switches in a Live Three Phase Inverter using SSTDR Signal Embedded PWM Sequence. , 2020, , .		3
665	Distributed Thermal Monitoring of Wind Turbine Power Electronic Modules Using FBG Sensing Technology. IEEE Sensors Journal, 2020, 20, 9886-9894.	4.7	23
666	Real-Time Monitoring of Thermal Response and Life-Time Varying Parameters in Power Modules. IEEE Transactions on Industry Applications, 2020, 56, 5279-5291.	4.9	29
667	Power Electronic Converters in Electric Aircraft: Current Status, Challenges, and Emerging Technologies. IEEE Transactions on Transportation Electrification, 2020, 6, 1648-1664.	7.8	84
668	Arbitrage With Power Factor Correction Using Energy Storage. IEEE Transactions on Power Systems, 2020, 35, 2693-2703.	6.5	29
669	Social Media Big Data-Based Research on the Influencing Factors of Insomnia and Spatiotemporal Evolution. IEEE Access, 2020, 8, 41516-41529.	4.2	6
670	Reliability Assessment of IGBT Through Modelling and Experimental Testing. IEEE Access, 2020, 8, 39561-39573.	4.2	27
671	Adoption and Continuance Intention Model of Applying Telemedicine Technology in Digital Games Addiction. , 2020, , .		3
672	An Enhanced Anomaly Detection in Web Traffic Using a Stack of Classifier Ensemble. IEEE Access, 2020, 8, 24120-24134.	4.2	54
673	Two Modes Excited SPR Sensor Employing Gold-Coated Photonic Crystal Fiber Based on Three-Layers Air-Holes. IEEE Sensors Journal, 2020, 20, 5893-5899.	4.7	20
674	A Fast FoV-Switching DASH System Based on Tiling Mechanism for Practical Omnidirectional Video Services. IEEE Transactions on Multimedia, 2020, 22, 2366-2381.	7.2	20
675	Analysis of Current Distortion of Three-Phase Voltage Source Rectifiers and its Application in Fault Diagnosis. IEEE Access, 2020, 8, 4065-4075.	4.2	11
676	Investigations on Averaging Mechanisms of Virtual Junction Temperature Determined by V_{CE} (T) Method for IGBTs. IEEE Transactions on Electron Devices, 2020, 67, 1106-1112.	3.0	25
678	See the Future: A Semantic Segmentation Network Predicting Ego-Vehicle Trajectory With a Single Monocular Camera. IEEE Robotics and Automation Letters, 2020, 5, 3066-3073.	5.1	26

#	ARTICLE	IF	CITATIONS
679	Two-level fault diagnosis RBF networks for auto-transformer rectifier units using multi-source features. Journal of Power Electronics, 2020, 20, 754-763.	1.5	11
680	Physical-Layer Security With Optical Generalized Space Shift Keying. IEEE Transactions on Communications, 2020, 68, 3042-3056.	7.8	30
681	Comparative Analysis of IGBT Parameters Variation Under Different Accelerated Aging Tests. IEEE Transactions on Electron Devices, 2020, 67, 1098-1105.	3.0	19
682	Ultra-Broadband Phase Shifters for 5G Mobile Applications. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 530-530.	4.6	2
683	Generalized Lexicographic Products and the Index Coding Capacity. IEEE Transactions on Information Theory, 2020, 66, 1520-1529.	2.4	2
684	HFR-Video-Based Honeybee Activity Sensing. IEEE Sensors Journal, 2020, 20, 5575-5587.	4.7	16
685	Performance Enhancement of 3-D NAND Flash Featuring a Two-Step Dummy Wordline Program Waveform and Pair-Bitline Program Scheme. IEEE Transactions on Electron Devices, 2020, 67, 99-104.	3.0	5
686	Polarizing Grating-Based Ultrasensitive All-Fiber Angular Displacement Sensor. IEEE Photonics Technology Letters, 2020, 32, 180-183.	2.5	1
687	Monetization of Services Provided by Public Fog Nodes Using Blockchain and Smart Contracts. IEEE Access, 2020, 8, 20118-20128.	4.2	34
688	Localization and Detection of Bond Wire Faults in Multichip IGBT Power Modules. IEEE Transactions on Power Electronics, 2020, 35, 7804-7815.	7.9	25
689	A Fault-Tolerant Control Strategy for T-Type Three-Level Rectifier With Neutral Point Voltage Balance and Loss Reduction. IEEE Transactions on Power Electronics, 2020, 35, 7492-7505.	7.9	18
690	Effect of Gaussian Correlated Channel on Uplink Channel Estimation for Massive MIMO with Nested Array at the Base Station. , 2020, , .		0
691	Real-Time Diagnosis of Multiple Transistor Open-Circuit Faults in a T-Type Inverter Based on Finite-State Machine Model. CPSS Transactions on Power Electronics and Applications, 2020, 5, 74-85.	4.4	18
692	AI-Driven Maintenance Support for Downhole Tools and Electronics Operated in Dynamic Drilling Environments. IEEE Access, 2020, 8, 78683-78701.	4.2	16
693	OATS: Optimisation and Analysis Toolbox for Power Systems. IEEE Transactions on Power Systems, 2020, 35, 3552-3561.	6.5	13
694	Capital Cost based Planning and Optimal Sizing of a Small Community Smart Microgrid. , 2020, , .		4
695	Monitoring Bond Wires Fatigue of Multichip IGBT Module Using Time Duration of the Gate Charge. IEEE Transactions on Power Electronics, 2021, 36, 888-897.	7.9	31
696	Online Condition Monitoring for Bond Wire Degradation of IGBT Modules in Three-Level Neutral-Point-Clamped Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 7474-7484.	7.9	16

#	Article	IF	Citations
697	A New Complete Condition Monitoring Method for SiC Power MOSFETs. IEEE Transactions on Industrial Electronics, 2021, 68, 1654-1664.	7.9	45
698	Monitoring Bond Wire Defects of IGBT Module Using Module Transconductance. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2201-2211.	5.4	14
699	A Novel Leakage-Current-Based Online Insulation Monitoring Strategy for Converter Transformers Using Common-Mode and Differential-Mode Harmonics in VSC System. IEEE Transactions on Industrial Electronics, 2021, 68, 1636-1645.	7.9	21
700	Long-Term Reliability Evaluation of Power Modules With Low Amplitude Thermomechanical Stresses and Initial Defects. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 602-615.	5.4	24
701	Parameter identification based on linear model for buck converters. Electrical Engineering, 2021, 103, 293-302.	2.0	3
702	Sparse Kernel Ridge Regression Assisted Particle Filter Based Remaining Useful Life Estimation of Cascode GaN FET. IEEE Transactions on Industrial Electronics, 2021, 68, 7516-7525.	7.9	10
703	Modeling and Characterization of Frequency-Domain Thermal Impedance for IGBT Module Through Heat Flow Information. IEEE Transactions on Power Electronics, 2021, 36, 1330-1340.	7.9	32
704	A Digital Twin Based Estimation Method for Health Indicators of DC–DC Converters. IEEE Transactions on Power Electronics, 2021, 36, 2105-2118.	7.9	121
705	Improving DC-Link Capacitor Lifetime for Three-Level Photovoltaic Hybrid Active NPC Inverters in Full Modulation Index Range. IEEE Transactions on Power Electronics, 2021, 36, 5250-5261.	7.9	31
706	*In Situ* Insulated Gate Bipolar Transistor Junction Temperature Estimation Method via a Bond Wire Degradation Independent Parameter Turn-OFF *V*$_{ce}$ Overshoot. IEEE Transactions on Industrial Electronics, 2021, 68, 10118-10129.	7.9	26
707	Modeling and Correlation of Two Thermal Paths in Frequency-Domain Thermal Impedance Model of Power Module. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3971-3981.	5.4	16
708	Emulated Stator Voltage-Oriented Vector Control of DFIM-SPS With Coupling Effect Elimination for Electric Ship Applications. IEEE Transactions on Transportation Electrification, 2021, 7, 1615-1627.	7.8	6
709	An Overview of Artificial Intelligence Applications for Power Electronics. IEEE Transactions on Power Electronics, 2021, 36, 4633-4658.	7.9	354
710	Robust Control Scheme for a Three Phase Grid-Tied Inverter With LCL Filter During Sensor Failures. IEEE Transactions on Industrial Electronics, 2021, 68, 8253-8264.	7.9	14
711	Power Switch Open-Circuit Fault Diagnosis of Six-Phase Fault Tolerant Permanent Magnet Synchronous Motor System Under Normal and Fault-Tolerant Operation Conditions Using the Average Current Park's Vector Approach. IEEE Transactions on Power Electronics, 2021, 36, 2641-2660.	7.9	36
712	A Fault Diagnosis and Postfault Reconfiguration Scheme for Interleaved Boost Converter in PV-Based System. IEEE Transactions on Power Electronics, 2021, 36, 3769-3780.	7.9	42
713	An Overview of Condition Monitoring Techniques for Capacitors in DC-Link Applications. IEEE Transactions on Power Electronics, 2021, 36, 3692-3716.	7.9	111
714	Distributed Fault-Tolerant Powertrain Configuration for Electric Vehicle Applications With Pole-Phase Modulation. IEEE Transactions on Industrial Electronics, 2022, 69, 7787-7796.	7.9	1

#	Article	IF	Citations
715	A Hybrid Nearest Level Combined With PWM Control Strategy: Analysis and Implementation on Cascaded H-Bridge Multilevel Inverter and its Fault Tolerant Topology. IEEE Access, 2021, 9, 44266-44282.	4.2	30
716	Aging Mechanisms and Accelerated Lifetime Tests for SiC MOSFETs: An Overview. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1232-1254.	5.4	35
717	Power Compensation-Oriented SVM-DPC Strategy for a Fault-Tolerant Back-to-Back Power Converter Based DFIM Shipboard Propulsion System. IEEE Transactions on Industrial Electronics, 2022, 69, 8716-8726.	7.9	5
718	Intrusiveness of Power Device Condition Monitoring Methods: Introducing Figures of Merit for Condition Monitoring. IEEE Industrial Electronics Magazine, 2022, 16, 60-69.	2.6	10
719	A multilevel inverter structure with open circuit fault-tolerant capability. Electrical Engineering, 2021, 103, 1613-1628.	2.0	3
720	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.	4.7	15
721	Hybrid Input Power Balancing Method of Modular Power Converters for High Efficiency, High Reliability, and Enhanced Dynamic Performance. IEEE Transactions on Industrial Electronics, 2022, 69, 5132-5141.	7.9	4
722	Stability of sliding mode controlled buck converters with unmodelled dynamics of circuit elements and hall sensor. IET Power Electronics, 2021, 14, 602-613.	2.1	2
723	Degradation of SiC MOSFETs Under High-Bias Switching Events. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5027-5038.	5.4	18
724	An Online Proactive Health Monitoring Method for Output Capacitors of Vehicular Auxiliary Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1219-1231.	5.4	7
725	Open‐switch fault diagnosis in three‐level rectifiers based on selective calculation method for instant voltage deviation. IET Power Electronics, 2021, 14, 923-935.	2.1	4
726	Model-Based Design of a Pseudo-Cogenerative Heating System for e-Boat Battery Cold Start. Energies, 2021, 14, 1022.	3.1	2
727	A fault‐diagnosis and tolerant control technique for five‐level cascaded H‐bridge inverters. IET Circuits, Devices and Systems, 2021, 15, 366-376.	1.4	16
728	Second‐order SMO‐based sensorless control of IM drive: experimental investigations of observer sensitivity and system reconfiguration in postfault operation mode. IET Electric Power Applications, 2021, 15, 811-823.	1.8	0
729	Bias Temperature Instability and Junction Temperature Measurement Using Electrical Parameters in SiC Power MOSFETs. IEEE Transactions on Industry Applications, 2021, 57, 1664-1676.	4.9	15
730	Enabling Data-Driven Condition Monitoring of Power Electronic Systems With Artificial Intelligence: Concepts, Tools, and Developments. IEEE Power Electronics Magazine, 2021, 8, 18-27.	0.7	44
731	Perspectives of Convertors and Communication Aspects in Automated Vehicles, Part 1: Convertors and Condition Monitoring. Energies, 2021, 14, 1795.	3.1	0
732	Impedance-Based Stability Analysis of Less Power Electronics Integrated Electric Shipboard Propulsion System Considering Operation Mode, PLL, and DC-Bus Voltage Control Effect. IEEE Transactions on Vehicular Technology, 2021, 70, 2219-2230.	6.3	7

#	Article	IF	Citations
733	Power electronic converter reliability and prognosis review focusing on power switch module failures. Journal of Power Electronics, 2021, 21, 865-880.	1.5	24
734	Parameter Identification of <scp>DC</scp>â€Link Capacitor for Electric Vehicle Based on <scp>IGWOâ€BP</scp> Neural Network. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 861-870.	1.4	5
735	Challenges and New Trends in Power Electronic Devices Reliability. Electronics (Switzerland), 2021, 10, 925.	3.1	5
736	Fault Detection in a Hybrid Dickson DCâ€"DC Converter for 48-V Automotive Applications. IEEE Transactions on Power Electronics, 2021, 36, 4254-4268.	7.9	11
737	Fault detection technique for modified cascaded half-bridge multi-level inverter with polarity changer in pv grid system. SN Applied Sciences, 2021, 3, 1.	2.9	5
738	Open Circuit Fault Detection and Switch Identification for LS-PWM H-Bridge Inverter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1363-1367.	3.0	13
739	A Lifetime Prediction Method for IGBT Modules Considering the Self-Accelerating Effect of Bond Wire Damage. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2271-2284.	5.4	22
740	Diode Open-Circuit Fault Diagnosis Based on Hausdorff Distance for Autotransformer Rectifier Unit. , 2021, , .		3
741	Artificial Neural Network Based Open-Transistor Fault Detection in Symmetric Cascaded H-Bridge Multilevel Inverter. , 2021, , .		3
742	An Excitation Method for Fault Diagnosis of DC-AC Converter Based on Simulation. , 2021, , .		0
743	Aging Detection and State of Health Estimation of Live Power Semiconductor Devices Using SSTDR Embedded PWM Sequence. IEEE Transactions on Power Electronics, 2021, 36, 4991-5005.	7.9	8
744	Continuous Monitoring of Parasitic Elements in Boost Converter Circuit. , 2021, , .		1
745	Leg-Shared Fault-Tolerant Predictive Control of Four-Quadrant Motor Drive Systems. , 2021, , .		3
746	Hybrid Power Balancing Method of Modular Power Converters to Achieve Enhanced Efficiency and Dynamic Performance. , 2021, , .		0
747	Condition monitoring of <scp>IGBT</scp> modules using online <scp>TSEPs</scp> and dataâ€driven approach. International Transactions on Electrical Energy Systems, 2021, 31, e12969.	1.9	7
748	Unified Approach for Robust Stability Analysis of Buck Converters with Discrete-Time Sliding Mode Control. Mathematical Problems in Engineering, 2021, 2021, 1-14.	1.1	1
749	A reliable and efficient modified Tâ€type fault tolerant five level inverter configuration. International Transactions on Electrical Energy Systems, 2021, 31, e12975.	1.9	2
750	An Anti-Interference Online Monitoring Method for IGBT Bond Wire Aging. Electronics (Switzerland), 2021, 10, 1449.	3.1	3

#	Article	IF	Citations
751	A road map for reliable power electronics for more electric aircraft. Progress in Aerospace Sciences, 2021, 127, 100739.	12.1	26
752	Deep Deterministic Gradient Policy (DDGP) Reinforcement Learning Assisted Degradation-Aware Control of Solid-State Transformer. , 2021, , .		0
753	A Novel Bond Wire Fault Detection Method for IGBT Modules Based on Turn-on Gate Voltage Overshoot. IEEE Transactions on Power Electronics, 2021, 36, 7501-7512.	7.9	36
754	Load-dependent power transfer efficiency for on-chip coils. Analog Integrated Circuits and Signal Processing, 2021, 109, 611-624.	1.4	0
755	Temperature Estimation of SiC Power Devices Using High Frequency Chirp Signals. Energies, 2021, 14, 4912.	3.1	4
756	Input–Output Small-Signal Stability Analysis of a PLL-Free Direct Power-Controlled Partially Power-Decoupled More-Electric Shipboard Propulsion System. IEEE Transactions on Transportation Electrification, 2021, 7, 1672-1686.	7.8	3
757	On the Junction Temperature Extraction Approach With a Hybrid Model of Voltage-Rise Time and Voltage-Rise Loss. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1489-1496.	2.5	7
758	Accurate Online Junction Temperature Estimation of IGBT Using Inflection Point Based Updated I–V Characteristics. IEEE Transactions on Power Electronics, 2021, 36, 9826-9836.	7.9	17
759	Inverter open-circuit fault diagnosis method in PMSG based wind energy conversion system. Electrical Engineering, 2022, 104, 1317-1330.	2.0	3
760	Analysis of the Stress-Wave Influence Parameters of Silicon MOSFET Under 300V Drain Source Voltage. IEEE Sensors Journal, 2021, 21, 20107-20118.	4.7	6
761	Adaptive Fast Fault Location for Open-Switch Faults of Voltage Source Inverter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3965-3974.	5.4	10
762	Discussion on the Test Methodologies for Structural Integrity of Power Module. Journal of Japan Institute of Electronics Packaging, 2021, 24, 560-571.	0.1	0
763	Importance of condition monitoring in mechanical domain. Materials Today: Proceedings, 2022, 54, 234-239.	1.8	10
764	A survey on new trends of digital twin technology for power systems. Journal of Intelligent and Fuzzy Systems, 2021, 41, 3873-3893.	1.4	12
765	Noncontact Monitoring of IGBT Turn-OFF Time Using PWM Switching Ringing for Inverter-Fed Machine Systems. IEEE Transactions on Power Electronics, 2021, 36, 11055-11067.	7.9	10
766	Characterization of Electrical–Thermal–Mechanical Deformation of Bonding Wires Under Silicone Gel Using LF-OCT. IEEE Transactions on Power Electronics, 2021, 36, 11045-11054.	7.9	9
767	Bond wire lift-off monitoring based on intersection point movement characteristic in IGBT module. Microelectronics Journal, 2021, 116, 105202.	2.0	3
768	Noninvasive Model-Based Open-Circuit Switch Fault Detection of AC-Bypass Leg Switches in Transformerless PV Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6671-6680.	5.4	5

#	Article	IF	Citations
769	An Automotive-Grade Monolithic Masterless Fault-Tolerant Hybrid Dickson DC–DC Converter for 48-V Multi-Phase Applications. IEEE Journal of Solid-State Circuits, 2021, 56, 3608-3618.	5.4	11
770	An Advanced Wideband Model and a Novel Multitype Insulation Monitoring Strategy for VSC-Connected Transformers Based on Common-Mode Impedance Response. IEEE Transactions on Industrial Electronics, 2022, 69, 879-889.	7.9	3
771	A Review on IGBT Module Failure Modes and Lifetime Testing. IEEE Access, 2021, 9, 9643-9663.	4.2	74
772	Open-Circuit Faults Diagnosis in Direct-Drive PMSG Wind Turbine Converter. Energy Engineering: Journal of the Association of Energy Engineers, 2021, 118, 1515-1535.	0.5	2
773	Dynamic State Estimation Enabled Health Indicator for Parametric Fault Detection in Switching Power Converters. IEEE Access, 2021, 9, 33224-33234.	4.2	7
774	Diagnosis and Tolerant Control Methods for an Open-Switch Fault in a Vienna Rectifier. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7112-7125.	5.4	6
775	A Multiple Open-Circuit Fault Diagnosis Method for Two-Level Three-Phase Voltage Source Converters Based on Average-Phase Voltage Model. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1138-1152.	5.4	9
776	An Online Proactive CTR Monitoring Method for Optocoupler in Automotive Auxiliary Converter. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	1
777	Faults and Diagnosis Systems in Power Converters. Studies in Computational Intelligence, 2014, , 143-178.	0.9	5
778	Thermal Analysis of Power Electronics: Review. , 2018, , 19-47.		1
779	Current covariance analysis-based open-circuit fault diagnosis for voltage-source-inverter-fed vector-controlled induction motor drives. Journal of Power Electronics, 2020, 20, 492-500.	1.5	9
780	Condition Monitoring of Wind Power Converters Using Heat Flux Sensor. International Review of Electrical Engineering, 2016, 11, 239.	0.2	3
781	Analysis of loss distribution of Conventional Boost, Z-source and Y-source Converters for wide power and voltage range. Transactions on Environment and Electrical Engineering, 2016, 2, 1.	0.5	10
782	Fault Tolerant Control of DC-Link Voltage Sensor for Three-Phase AC/DC/AC PWM Converters. Journal of Power Electronics, 2014, 14, 695-703.	1.5	17
784	Intelligent Monitoring and Maintenance Technology for Next-Generation Power Electronic Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 4403-4418.	5.4	5
785	Condition Health Monitoring of Modular Multilevel Converter Submodule Capacitors. IEEE Transactions on Power Electronics, 2022, 37, 3544-3554.	7.9	10
786	Estimation of Junction Temperature in a Two-Level Insulated-Gate Bipolar Transistor Inverter for Motor Drives. Journal of Electrical Engineering and Technology, 2022, 17, 1111-1119.	2.0	3
787	Online monitoring of IGBT modules based on creating the non-interventional monitoring environment. Microelectronics Reliability, 2021, 126, 114220.	1.7	2

#	ARTICLE	IF	CITATIONS
788	Thermal Cycling in Converter IGBT Modules with Different Cooling Systems in Pitch- and Active Stall-Controlled Tidal Turbines. Energies, 2021, 14, 6457.	3.1	1
789	A multi-physics approach to condition monitoring of SiC power module. Microelectronic Engineering, 2021, 250, 111633.	2.4	3
790	Thermal behavior estimation of the power switches with an empirical formulation optimized by Artificial Bee Colony algorithm. Microelectronics Reliability, 2021, 127, 114404.	1.7	2
791	ON-LINE FAULT DETECTION AND LOCALIZATION IN THREE-PHASE INDUCTION MOTOR DRIVE SYSTEMS. ERJ Engineering Research Journal, 2013, 36, 9-16.	0.2	0
792	Investigation of the prediction model of IGBT junction temperature based on the rate of voltage change. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 177201.	0.5	2
795	Estimation of ESR in the DC-Link Capacitors of AC Motor Drive Systems with a Front-End Diode Rectifier. Journal of Power Electronics, 2015, 15, 411-418.	1.5	3
796	Analysis of chosen IGBT faults diagnostic variables in AC/DC line-side converter. Przeglad Elektrotechniczny, 2016, 1, 68-73.	0.2	0
797	IGBTs Open-Circuit Faults Diagnostic Methods for the Voltage Inverter Fed Induction Motor Drives. Przeglad Elektrotechniczny, 2016, 1, 74-79.	0.2	4
798	IGBT Open-Circuit Fault Diagnosis for 3-Phase 4-Wire 3-Level Active Power Filters based on Voltage Error Correlation. Journal of Power Electronics, 2016, 16, 1950-1963.	1.5	1
799	REVIEW THE MAIN TECHNOLOGIES OF THE WIRELESS CHARGING OF ENERGY ACCUMULATORS FOR SMALL-PURCHASING SYSTEMS. Technical Sciences and Technologies, 2017, , 133-146.	0.0	2
800	Neural Network Based Prediction of Stable Equivalent Series Resistance in Voltage Regulator Characterization. Bulletin of Electrical Engineering and Informatics, 2018, 7, 134-142.	0.8	5
801	Zastosowanie metod diagnostyki awarii tranzystorÃ³w w przekształtnikach sieciowych AC/DC. Przeglad Elektrotechniczny, 2018, 1, 25-31.	0.2	0
802	Economic Appraisal and Cost-Benefit Analysis. CIGRE Green Books, 2019, , 1-43.	0.1	0
803	Review on the Reliability Research of High Power IGBT Devices. Smart Grid, 2019, 09, 218-226.	0.0	3
804	Remaining Useful Life Prediction of Power MOSFETs Using Model-Based and Data-Driven Methods. Advances in Intelligent Systems and Computing, 2020, , 373-381.	0.6	0
805	Reliability Evaluation of Silicon Carbide (SiC) Boost Converter Using Stochastic Model. Lecture Notes in Mechanical Engineering, 2020, , 159-176.	0.4	0
806	Condition Monitoring of High Voltage Press-Pack IGBT with On-State Collector-Emitter Voltage. Lecture Notes in Electrical Engineering, 2020, , 949-957.	0.4	2
807	Robust Hâˇž Control for PWM Boost Converters Subject to Aging Capacitor Conditions. IFAC-PapersOnLine, 2020, 53, 13378-13383.	0.9	0

#	Article	IF	Citations
808	Reliability Modeling of Multiphase DC–DC Boost Converter. Springer Proceedings in Energy, 2020, , 787-801.	0.3	0
809	Review of Methodologies for Structural Integrity Evaluation of Power Modules. Journal of Electronic Packaging, Transactions of the ASME, 2021, 143, .	1.8	3
810	CNN-LSTM-Based Prognostics of Bidirectional Converters for Electric Vehicles' Machine. Sensors, 2021, 21, 7079.	3.8	8
812	New Adaptive Control Strategy for a Wind Turbine Permanent Magnet Synchronous Generator (PMSG). Inventions, 2021, 6, 3.	2.5	5
813	FCS-MPC Based Fault Tolerant Control for Permanent Magnet Synchronous Machines. , 2020, , .		0
814	Performance Investigation of an Improved Diagnostic Method for Open IGBT Faults in VSI-Fed IM Drives. Studies in Systems, Decision and Control, 2020, , 155-171.	1.0	1
815	Economic Appraisal and Cost-Benefit Analysis. CIGRE Green Books, 2020, , 709-751.	0.1	0
816	Multi-mode PCA-based FDD Methods. Lecture Notes in Intelligent Transportation and Infrastructure, 2020, , 65-80.	0.5	0
817	Methodologies for Structural Integrity Evaluation of Power Semiconductor Modules. Journal of Japan Institute of Electronics Packaging, 2020, 23, 173-191.	0.1	0
818	A Survey of Open Circuit Switch Fault Diagnosis Techniques for Multilevel Inverters Based on Signal Processing Strategies. , 2021, , .		2
819	Direct Power Control of Fault-Tolerant Converter-Based Doubly-Fed Induction Machine Electric Drivetrain for Ship Propulsion. , 2020, , .		2
820	Direct on Chip Thermal Measurement in IGBT Modules Using FBG Technology—Sensing Head Interfacing. IEEE Sensors Journal, 2022, 22, 1309-1320.	4.7	10
821	Continuous Sliding Mode Control of Buck Converter with Constant Switching Frequency. , 2021, , .		1
822	An Automated Multi-Device Characterization System for Reliability Assessment of Power Semiconductors. , 2021, , .		1
823	Measurement-Based Parameter Identification of DC-DC Converters with Adaptive Approximate Bayesian Computation. , 2021, , .		3
824	A Review on Artificial Intelligence Based Strategies for Open-Circuit Switch Fault Detection in Multilevel Inverters. , 2021, , .		4
825	A Junction Temperature Balance Control Among Sub-Modules for Modular Multilevel Converter. , 2021, , .		1
826	E-Drive SiC MOSFET Inverter with Self Calibrating VON-based Junction Temperature Estimator. , 2021, , .		1

#	Article	IF	Citations
827	Reliability Analysis of Power Electronic Topology Based on Bayesian Network. , 2021, , .		3
828	An Accelerated Degradation Testing Method for Quantifying Lifetime of DC-DC Power Supply. , 2021, , .		0
829	Reliability of Wind Turbine Power Modules using High-Resolution Wind Data Reconstruction: A Digital Twin Concept. , 2021, , .		4
830	Fault Diagnosis and Reconfiguration for H6 Grid-Tied Inverter Using Kalman Filter. , 2021, , .		2
831	Open switch fault diagnosis of cascade H-bridge multi-level inverter in distributed power generators by machine learning algorithms. Energy Reports, 2021, 7, 8929-8942.	5.1	24
832	Hybrid Modulation Strategy With Neutral Point Potential Balance of T-Type Three-Level Converter Under Switch Open-Circuit Fault. IEEE Transactions on Industrial Electronics, 2022, 69, 10797-10806.	7.9	6
833	Research on Open-Circuit Fault Diagnosis and Fault-Tolerant Control Strategy of Three-Phase Three-Level NPC Rectifier. Advances in Energy and Power Engineering, 2021, 09, 250-262.	0.0	1
834	Modeling and optimization of OC fault diagnosis for inverters based on GR-PTA-BN. Microelectronics Reliability, 2022, 128, 114457.	1.7	5
835	Junction Temperature Optimization Based Compensation Strategy of Modular Multilevel Railway Power Conditioner. IEEE Transactions on Power Electronics, 2022, 37, 6585-6598.	7.9	5
836	An improved look-up table-based direct torque control for permanent magnet synchronous generator using Vienna rectifier. International Journal of Electrical Power and Energy Systems, 2022, 138, 107875.	5.5	2
837	Condition Monitoring of DC-link Capacitors in Grid-tied Solar Inverters Using Data-Driven Techniques. , 2020, , .		7
838	Case Temperature Monitoring-Based Online Condition Monitoring of SiC MOSFET Power Modules using a Radial Basis Function Network. , 2020, , .		3
839	Research on Turn-on Delay Time t_{don} of the Multichip IGBT Module after Partial Chip Failure. , 2020, , .		0
840	Bayesian Optimized Long-Short Term Memory Recurrent Neural Network for Prognostics of Thermally Aged Power Mosfets. , 2020, , .		2
841	Investigation on the Influence Factors of Thermal Resistance Monitoring of Parallel Connected IGBT Modules. , 2020, , .		3
842	A Novel Fault Detection of Igbt Open â€" Circuit Failure In Five-Phase Open-End Winding PMSM Drive System. , 2020, , .		1
843	Open-Circuit Fault Diagnosis in Shunt Active Power Filters with No Additional Sensors. , 2020, , .		1
844	Online Monitoring for Sub-module Capacitance in Modular Multilevel Converter with Four Sampling Points of Capacitor Voltage. , 2020, , .		6

#	Article	IF	Citations
845	Fault Diagnosis for IGBTs Open-Circuit Faults in Photovoltaic Grid-Connected Inverters Based on Statistical Analysis and Machine Learning. , 2020, , .		4
846	Research on the modeling method of NPC three-phase three-level inverter. , 2020, , .		1
847	Multiple Open-Circuit Faults Diagnosis in Six-Phase Induction Motor Drives Using Stator Current Analysis. IEEE Transactions on Power Electronics, 2022, 37, 7275-7285.	7.9	13
848	Robust Zonotopic Set-Membership Approach for Model-Based Prognosis: Application on Linear Parameter-Varying Systems. , 2021, , .		1
849	Lifetime Modelling of Power Electronics for Power Electronic Based Power Systemâ€"A Case for Microgrids. , 2021, , .		0
850	Modeling and Analysis of Multiple Open-Switch Faults in Converters Supplying Permanent-Magnet Synchronous Machines. , 2021, , .		2
851	Research on Junction Temperature Exaction of Power Electronic Devices Based on Voltage Rise Period Parameters. , 2021, , .		0
852	The Decreasing Hazard Rate Phenomenon: A Review of Different Models, with a Discussion of the Rationale behind Their Choice. Electronics (Switzerland), 2021, 10, 2553.	3.1	2
853	Accelerated Testing and Reliability of FDM-Based Structural Electronics. Applied Sciences (Switzerland), 2022, 12, 1110.	2.5	4
854	Reliability Improvement of Voltage Regulator Modules by a Virtual Series Voltage Source. IEEE Transactions on Industrial Electronics, 2022, 69, 12641-12652.	7.9	2
855	Enhanced thermal performance of vortex generating liquid heat sink for the application of cooling high voltage direct current devices. Heat and Mass Transfer, 2022, 58, 1157-1169.	2.1	3
856	Polarimetric photoluminescence microscope for strain imaging on semiconductor devices. Applied Optics, 2022, 61, 1307.	1.8	0
857	Fault Detection and Tolerant Control of IGBT Open-Circuit Failures in Modular Multilevel Matrix Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6714-6727.	5.4	7
858	Grid Fault Current Injection Using Virtual Synchronous Machines Featuring Active Junction Temperature Limitation of Power Devices. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 6243-6251.	5.4	4
859	Monitoring Power Module Solder Degradation From Heat Dissipation in Two Opposite Directions. IEEE Transactions on Power Electronics, 2022, 37, 9754-9766.	7.9	4
860	Proposal of Evaluation Method for Wire-Liftoff Lifetime of Power Modules Using Cyclic 4-Point-Bending Fatigue Test. Journal of Japan Institute of Electronics Packaging, 2022, , .	0.1	0
861	A Robust Accuracy Weighted Random Forests Algorithm for IGBTs Fault Diagnosis in PWM Converters without Additional Sensors. Applied Sciences (Switzerland), 2022, 12, 2121.	2.5	5
863	A Residual-Based Open-Circuit Fault Diagnosis Approach for Voltage Source Power Converters. , 2021, , .		1

#	Article	IF	Citations
864	Neural Network based Open-circuit Fault Diagnosis for Three-Level Neutral-Point-Clamped Back-to-Back Converters. , 2021, , .		4
865	Leg-Shared Fault Tolerant Predictive Control of PMSM Drive Systems Fed by Three-Level Back-to-Back Converters. , 2021, , .		0
866	Condition Monitoring of Power Electronic Converters: Present Status and Key Challenges. , 2021, , .		4
867	Real-Time Sensor Fault Identification and Remediation for Single-Phase Grid-Connected Converters Using Hybrid Observers With Unknown Input Adaptation. IEEE Transactions on Industrial Electronics, 2023, 70, 2407-2418.	7.9	7
868	Parameter Characterization of Power MOSFET Gate Oxide Degradation Based on Current Falling Time during Turn-off Process. , 2022, , .		0
869	Prospects and challenges of renewable energy-based microgrid system in Bangladesh: a comprehensive review. Clean Technologies and Environmental Policy, 2022, 24, 1987-2009.	4.1	19
870	Open Circuit Fault Diagnosis in Five-Level Cascaded H-Bridge Inverter. International Transactions on Electrical Energy Systems, 2022, 2022, 1-13.	1.9	8
871	Interfacial reaction between Sn-Ag solder and electroless Ni-Fe-P diffusion barriers with different internal microstructure. Materials Research Bulletin, 2022, 152, 111854.	5.2	5
872	Effect of TIM Deterioration on Monitoring of IGBT Module Thermal Resistance and Its Compensation Strategy. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 789-797.	2.5	4
874	Multiple open-circuit fault diagnosis of three-phase rectifier based on current data reconstruction. International Journal of Electronics, 2023, 110, 1267-1282.	1.4	0
875	Artificial Neural Network Algorithm for Condition Monitoring of DC-link Capacitors Based on Capacitance Estimation. Renewable Energy and Sustainable Development, 2015, 1, 294.	0.5	6
876	Artificial Intelligence based Anomaly Detection and Classification for Grid-Interactive Cascaded Multilevel Inverters. , 2022, , .		10
877	Support Vector Data Description (SVDD) based Inverter Fault Diagnostic Method. , 2022, , .		2
878	Analysis of thermal cycling effects in power devices under non-constant cumulative stress. , 2022, , .		4
879	Fault Diagnosis and Fault-Tolerant Control of PMSM Drivesâ€"State of the Art and Future Challenges. IEEE Access, 2022, 10, 59979-60024.	4.2	64
880	A 1/f Noise Detection Method for IGBT Devices Based on PSO-VMD. Electronics (Switzerland), 2022, 11, 1722.	3.1	1
882	Analysis of the IGBT Module with Bonding Wire Failure Based on Transient Thermal Impedance. Journal of Physics: Conference Series, 2022, 2276, 012033.	0.4	2
883	Junction temperature estimation approach based on TSEPs in multichip IGBT modules. Journal of Power Electronics, 0, , .	1.5	0

#	Article	IF	Citations
885	Implementation of Z-Source Resonant Converter for Power Factor Correction & Wireless Charging Applications. , 2022, , .		0
886	An online monitoring method of aluminum electrolytic capacitors in power equipment based on Simulink circuit model.. , 2022, , .		0
887	Identification Method for Various Failure Modes with Shared Kelvin and Power Wires Configuration in IGBT Power Modules. , 2022, , .		0
888	Analysis for magnetic field disturbance of modular multilevel converter based high voltage direct current (MMCâ€HVDC) converter valve. High Voltage, 2023, 8, 91-101.	4.7	5
889	Converter State-Space Model Estimation Using Dynamic Mode Decomposition. , 2022, , .		3
890	A hybrid fiveâ€level inverter configuration with improved reliability and reduced number of components. International Journal of Circuit Theory and Applications, 2022, 50, 4104-4130.	2.0	4
891	Fault Diagnosis and Tolerance on Reliability of Automotive Motor Control System: A Review. International Journal of Automotive Technology, 2022, 23, 1163-1174.	1.4	1
892	A Review of Infrared Thermography for Condition-Based Monitoring in Electrical Energy: Applications and Recommendations. Energies, 2022, 15, 6000.	3.1	18
893	Reliability Prediction and Assessment Models for Power Components: A Comparative Analysis. Archives of Computational Methods in Engineering, 2023, 30, 497-520.	10.2	7
896	Integrated Design for Lifetime Extension and ESR Monitoring of Hybrid DC Link in Solid-State Transformer From the Perspective of High-Frequency Ripple Current. IEEE Transactions on Power Electronics, 2022, 37, 15583-15593.	7.9	5
897	A Simple Open-Circuit Fault Diagnosis Method for Grid-Tied T-Type Three-Level Inverters With Various Power Factors Based on Instantaneous Current Distortion. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 1071-1085.	5.4	5
898	Model Predictive Direct Torque With Fault Tolerance Control for a Permanent Magnet Synchronous Generator Based on Vienna Rectifier. IEEE Access, 2022, 10, 94998-95007.	4.2	1
899	Monitoring Chip Branch Failure in Multichip IGBT Modules Based on Gate Charge. IEEE Transactions on Industrial Electronics, 2023, 70, 5214-5223.	7.9	3
900	An Online DC-Link Capacitance Estimation Method for Motor Drive Systems Based on an Intermittent Reverse-Charging Control Strategy. IEEE Transactions on Power Electronics, 2023, 38, 2481-2492.	7.9	4
901	Thermal Estimation of Modular Multilevel Converter Submodule Using Deep Regression on GRU and LSTM Network. IEEE Access, 2022, 10, 75343-75353.	4.2	3
902	Predicting Lifetime of Semiconductor Power Devices Under Power Cycling Stress Using Artificial Neural Network. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 5626-5635.	5.4	5
903	An Asymmetrical Power Module Design for Modular Multilevel Converter With Unidirectional Power Flow. IEEE Transactions on Power Electronics, 2023, 38, 1092-1103.	7.9	4
904	A Simultaneous Diagnosis Method for Power Switch and Current Sensor Faults in Grid-Connected Three-Level NPC Inverters. IEEE Transactions on Power Electronics, 2023, 38, 1104-1118.	7.9	44

#	ARTICLE	IF	CITATIONS
905	Binary Decision Diagram Model Based Reliability Prediction of PV Powered Quasi Z-Source Inverter. Lecture Notes in Mechanical Engineering, 2023, , 137-151.	0.4	0
906	Online correction method of IGBT lifetime evaluation based on bonding wire failure monitoring. IET Power Electronics, 0, , .	2.1	0
907	Artificial Intelligence Methodologies in Smart Grid-Integrated Doubly Fed Induction Generator Design Optimization and Reliability Assessment: A Review. Energies, 2022, 15, 7164.	3.1	7
908	Multiphase Electric Motor Drive with Improved and Reliable Performance: Combined Star-Pentagon Synchronous Reluctance Motor Fed from Matrix Converter. Mathematics, 2022, 10, 3351.	2.2	3
909	Recursive zonotopic set-membership approach for system-level prognostics with application to linear parameter-varying systems. ISA Transactions, 2022, , .	5.7	1
910	Fast In-Loop Single-Tube Open-Circuit Fault Diagnosis for Voltage Source Inverter Based on Duality of Current-Time Pairs. IEEE Transactions on Industrial Electronics, 2023, 70, 9572-9581.	7.9	1
911	Open circuit Fault Diagnosis using Machine Learning Classifiers. , 2022, , .		0
912	Analysis of Reliability, Cost and Performance of Three and Five-phase Synchronous Reluctance Machine Drive Systems. , 2022, , .		0
913	A Review of Open-Circuit Switch Fault Diagnostic Methods for Neutral Point Clamped Inverter. Electronics (Switzerland), 2022, 11, 3169.	3.1	9
914	Fault diagnosis algorithm for 3-phase passive rectifiers based on frequency-domain analysis for acceleration grid power supply in CFETR NBI system. Plasma Science and Technology, 2022, 24, 124004.	1.5	1
915	Open Circuit Fault Mitigation in a Nine-Level Modified Packed E-Cell Inverter. Energies, 2022, 15, 7976.	3.1	0
916	A health state prediction method of traction converter IGBT based on optimized particle filter. Microelectronics Reliability, 2022, 139, 114840.	1.7	0
917	A Unified Open-Circuit-Fault Diagnosis Method for Three-Level Neutral-Point-Clamped Power Converters. IEEE Transactions on Power Electronics, 2023, 38, 3834-3846.	7.9	8
918	A Simple and Effective Open-Circuit-Fault Diagnosis Method for Grid-Tied Power Convertersâ€"A New Technique Based on Tellegenâ€™s Theorem. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 2203-2213.	5.4	1
919	A General Diode Open-Circuit Fault Diagnosis Method for Autotransformer Rectifier Unit Considering Grid Voltage Disturbance. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 2214-2226.	5.4	1
920	Comparative analysis of different machine learning techniques for condition monitoring of capacitors in a SEPIC converter. , 2022, , .		1
921	Small Sample Fault Diagnosis Method of Three-phase Inverter Based on Transfer Learning. , 2022, , .		0
922	Real-Time AI-Based Anomaly Detection and Classification in Power Electronics Dominated Grids. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2023, 4, 549-559.	3.9	7

#	Article	IF	Citations
923	Analysis and Reduction of Current and Voltage Ripple in DC Link for Three-Level NPC Inverter-Fed Dual Three-Phase Motor Drives. IEEE Transactions on Power Electronics, 2023, 38, 5128-5140.	7.9	3
924	Driver Integrated Online R$_{ds-on}$ Monitoring Method for SiC Power Converters. , 2022, , .		9
925	Online Monitoring of Capacitor of Submodule in M3 C Converter. , 2022, , .		0
926	Digital Twin based Real-Time Analysis of DC-DC Boost Converters. , 2022, , .		4
927	Open-Circuit Fault Diagnosis and Fault-Tolerant Control for Coupled-Inductor-Based Aalborg Inverter. , 2022, , .		0
928	Methodology of Gate Voltage Selection for Power Loss Manipulation of Power Semiconductor Device. , 2022, , .		1
929	Collector-Emitter Voltage Based Health Monitoring of Bond Wire in IGBT at Low Gate Voltage. , 2022, , .		0
930	A Space Vector Based Diagnosis Method for Switch Open-Circuit Fault in Vienna Rectifier. , 2022, , .		1
931	Digital Twin Based Condition Monitoring for High Power Converters. , 2022, , .		1
932	Data-Driven Gap Metric Fault Diagnosis Technology With Its Application to DC-DC Converter. , 2022, , .		1
933	Proof of concept of Fault Detection and Identification Framework applied in Power Converter based on Digital Twins. , 2022, , .		3
935	Artificial Intelligence for Power Electronics in Electric Vehicles: Challenges and Opportunities. Journal of Electronic Packaging, Transactions of the ASME, 2023, 145, .	1.8	4
936	Parameter identification of key components of thyristor converter valve based on wavelet packet key feature extraction and Elman neural network. IET Generation, Transmission and Distribution, 0, , .	2.5	0
937	A Generalized Current Trajectory Based Fault Diagnostic Method for Three-Phase Two-Level Inverters. Distributed Generation and Alternative Energy Journal, 0, , .	0.8	0
939	Robust Open-Circuit Fault Diagnosis for PMSM Drives Using Wavelet Convolutional Neural Network With Small Samples of Normalized Current Vector Trajectory Graph. IEEE Transactions on Industrial Electronics, 2023, 70, 7653-7663.	7.9	17
940	A Unified Open-Circuit Fault Diagnosis and Condition Monitoring Method for Three-Level T-Type Inverter. IEEE Transactions on Power Electronics, 2023, 38, 5376-5391.	7.9	1
941	A review on insulation challenges towards electrification of aircraft. High Voltage, 2023, 8, 209-230.	4.7	5
942	A Comprehensive Overview of Power Converter Applied in High-Power Wind Turbine: Key Challenges and Potential Solutions. IEEE Transactions on Power Electronics, 2023, 38, 6169-6195.	7.9	27

#	Article	IF	Citations
943	Rolling Average-Decision Tree-Based Fault Detection of Neutral Point Clamped Inverters. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2023, 4, 744-755.	3.9	4
944	Methods and challenges for the fault detection and diagnosis in power electronic converters: An overview. , 2022, , .		1
945	Topological Overview of Auxiliary Source Circuits for Grid-Tied Converters. Machines, 2023, 11, 171.	2.2	0
946	Multiple Points Measurement Based Junction Temperature Estimation of IGBT Module. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, , 1-1.	5.4	0
947	Influence of Power Cycling Test Methodology on the Applicability of the Linear Damage Accumulation Rule for the Lifetime Estimation in Power Devices. IEEE Transactions on Power Electronics, 2023, 38, 6545-6554.	7.9	2
948	A compact jet array impingement cooling system driven by integrated piezoelectric micropump. International Journal of Heat and Mass Transfer, 2023, 205, 123905.	4.8	4
949	Reliability Prediction of Bridgeless AC-DC SEPIC with V-Fill for LED Applications. , 2022, , .		0
950	A New Fault-Tolerant Single-Phase Hybrid Five-Level Inverter Configuration With Enhanced Output Voltage. , 2022, , .		0
951	Life Prediction Method for Power Device of Traction Inverter in Metros. , 2022, , .		0
952	Mode Switching Based Parameter Identification for 2TX-1RX Wireless Power Transfer Systems. IEEE Access, 2023, 11, 46847-46859.	4.2	2
953	Track and hunt metaheuristic based deep neural network based fault diagnosis model for the voltage source inverter under varying load conditions. Advances in Engineering Software, 2023, 177, 103414.	3.8	3
954	DCâ€"DCâ€¹ circuit fault diagnosis based on GWO optimization of 1DCNN-GRU network hyperparameters. Energy Reports, 2023, 9, 536-548.	5.1	4
955	Four-state active fault diagnosis method for cascaded H-bridge multilevel inverter. Measurement: Journal of the International Measurement Confederation, 2023, 213, 112692.	5.0	1
956	Generic security-constrained inertia emulation scheme for VSI-based DC system using supercapacitor. International Journal of Electrical Power and Energy Systems, 2023, 150, 109078.	5.5	2
957	In Situ Diagnosis for IGBT Chip Failure in Multichip IGBT Modules Based on a Newly Defined Characteristic Parameter Low-Sensitive to Operation Conditions. IEEE Transactions on Power Electronics, 2023, 38, 7711-7722.	7.9	1
958	A real-time digital twin approach on three-phase power converters applied to condition monitoring. Applied Energy, 2023, 334, 120606.	10.1	10
959	Reliability evaluation of a novel fault tolerant multilevel inverter with reduced components. Electrical Engineering, 0, , .	2.0	0
960	A Sensor for the Ultraweak DC Current Covered by Strong AC Currents. IEEE Sensors Journal, 2023, 23, 6688-6696.	4.7	0

#	ARTICLE	IF	CITATIONS
961	Fault Detection and Localisation of a Three-Phase Inverter with Permanent Magnet Synchronous Motor Load Using a Convolutional Neural Network. Actuators, 2023, 12, 125.	2.3	5
962	Evaluation of the Thermal Resistance in GaN HEMTs Using Thermo-Sensitive Electrical Parameters. Energies, 2023, 16, 2779.	3.1	1
963	Cross-domain health status assessment of three-phase inverters using improved DANN. Journal of Power Electronics, 2023, 23, 1411-1421.	1.5	1
965	Application of Digital Twin in Power Equipment Operation and Maintenance. Lecture Notes in Electrical Engineering, 2023, , 891-900.	0.4	0
966	Improved PSO-SVM-Based Fault Diagnosis Algorithm for Wind Power Converter. , 2022, , .		0
967	Junction Temperature Measurement Based on the Internal Gate Resistance for a Wide Range of Power Semiconductors. IEEE Open Journal of Power Electronics, 2023, 4, 293-305.	5.7	0
968	An Online Metric Learning-Based Open-Switch and Current Sensor Fault Diagnosis for MSPMSM Systems. IEEE Transactions on Power Electronics, 2023, 38, 8966-8976.	7.9	4
969	Remaining Useful Lifetime Prediction Based on Extended Kalman Particle Filter for Power SiC MOSFETs. Micromachines, 2023, 14, 836.	2.9	0
970	DC Capacitor-Less Two-Terminal Unified Active Capacitor and Inductor. IEEE Transactions on Industry Applications, 2023, 59, 4441-4453.	4.9	0
971	Monitoring chip-branches failure of multichip IGBT module using change rate of gate voltage. Energy Reports, 2023, 9, 646-655.	5.1	0
972	An Overview of Multilevel Inverters Lifetime Assessment for Grid-Connected Solar Photovoltaic Applications. Electronics (Switzerland), 2023, 12, 1944.	3.1	7
973	Wavelet-based estimation method for online condition monitoring of dc-link capacitors of distributed energy resources. International Journal of Electrical Power and Energy Systems, 2023, 151, 109141.	5.5	1
974	PD Signal Detection Model Based on Multiscale Simulation of EM Generation and Transmission. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-10.	4.7	0
975	Review of condition monitoring methods for capacitors used in power converters. Microelectronics Reliability, 2023, 145, 115003.	1.7	4
976	Diagnosis and Resilient Control for Multiple Sensor Faults in Cascaded H-Bridge Multilevel Converters. IEEE Transactions on Power Electronics, 2023, 38, 11435-11450.	7.9	3
977	A Fast Open-Switch Fault and Open-Winding Fault Distinguish Method Based on Voltage Reference Modification. IEEE Transactions on Power Electronics, 2023, , 1-12.	7.9	0
978	Physics-based Modeling of Packaging-related Degradation of IGBT Modules. , 2023, , .		1
979	Gradient-based End-of-life Criterion of Power Semiconductor Modules. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
980	A Component Level Digital Twin Model for Power Converter Health Monitoring. IEEE Access, 2023, 11, 54143-54164.	4.2	4
981	Relative η -Axis Residual Voltage Signal Based Fault Detection for Inverter Switch Open-Circuit Failure. IEEE Transactions on Power Electronics, 2023, 38, 11315-11326.	7.9	2
982	Condition Monitoring of Submodule Capacitors in Modular Multilevel Converter Using Digital Twin. , 2023, , .		0
983	Modelling of Bidirectional Three-Phase Four-Wire Three-Level NPC MLC under Single-Loop Current Sensorless Control. Energies, 2023, 16, 4599.	3.1	1
984	Discussion on Classification Methods for Lifetime Evaluation of a Lab-Scale SiC MOSFET Power Module. Lecture Notes in Electrical Engineering, 2023, , 153-166.	0.4	1
985	Grid-Tied PV Inverter Reliability Estimation Based on Mission Profile. , 2023, , .		0
986	DC-DC Boost Converters Parameters Estimation Based on Digital Twin. IEEE Transactions on Industry Applications, 2023, 59, 6232-6241.	4.9	5
987	An Estimation Method of High-Order <i>LC</i> Circuits in Power Electronic Converters. IEEE Transactions on Industrial Electronics, 2024, 71, 5274-5284.	7.9	0
988	Design and Control for High-Reliability Power Electronics: State-of-the-Art and Future Trends. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2024, 5, 50-61.	3.9	3
989	Open-Circuit Fault Diagnosis of Three-Phase Permanent Magnet Machine Utilizing Normalized Flux-Producing Current. IEEE Transactions on Industrial Electronics, 2024, 71, 3351-3360.	7.9	4
990	Improving the Efficiency of the Shunt Active Power Filter Acting with the Use of the Hysteresis Current Control Technique. Energies, 2023, 16, 4080.	3.1	2
991	Open Switch Fault Diagnosis of VSI-fed PMSM Drive using MPC Cost Function and Burg Algorithm. , 2022, , .		1
992	Noninvasive Online Capacitor Monitoring Method for Three-Level Converter Based on Active Neutral-Point Current Adjustment. IEEE Transactions on Industrial Electronics, 2024, 71, 4320-4329.	7.9	0
993	Active Peltier Effect Heat Sink for Power Semiconductor Device Thermal Stability Enhancement. IEEE Transactions on Power Electronics, 2023, , 1-14.	7.9	1
994	Gate Voltage Based Active Thermal Control of Power Semiconductor Devices. IEEE Transactions on Power Electronics, 2023, , 1-11.	7.9	0
995	Open circuit fault diagnosis and fault classification in multi-level inverter using fuzzy inference system. Serbian Journal of Electrical Engineering, 2023, 20, 163-189.	0.4	1
996	Failures causes analysis of grid-tie photovoltaic inverters based on faults signatures analysis (FCA-B-FSA). Solar Energy, 2023, 262, 111831.	6.1	1
997	Automated early damage detection for power MOSFETs using on-board thermal spectroscopy. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
998	Film Capacitor Degradation under Electrical and Thermal Stresses Based on Capacitance Loss. , 2023, , .		1
999	5D Analysis of Capacity Degradation in Battery Electrodes Enabled by <i>Operando</i> CTâ€XANES. Small Methods, 2023, 7, .	8.6	1
1000	Bond wires aging monitoring for IGBT module based on junction temperature difference of TSEPs. IEICE Electronics Express, 2023, , .	0.8	0
1001	An avalanche-and-surge robust ultrawide-bandgap heterojunction for power electronics. Nature Communications, 2023, 14, .	12.8	17
1002	Review of the Failure Mechanism and Methodologies of IGBT Bonding Wire. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2023, 13, 1045-1057.	2.5	0
1003	Long-Term Lifetime Prediction of Power MOSFET Devices Based on LSTM and GRU Algorithms. Mathematics, 2023, 11, 3283.	2.2	1
1004	Thermal Onboard Detection of Voids in the Solder Layer Between Power Semiconductor and PCB. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2023, 13, 1104-1112.	2.5	1
1005	Reliability evaluation of carrierâ€based pulse width modulated threeâ€level Fâ€type neutral point clamped inverter with power loss analysis. International Journal of Circuit Theory and Applications, 0, , .	2.0	1
1006	Lifetime Extension Technique for Voltage Source Inverters Using Selected Switching States-Based MPC Method. IEEE Access, 2023, 11, 88686-88702.	4.2	3
1007	Direct On-chip IGBT Thermal Sensing using Adhesive bonded FBG Sensors. IEEE Sensors Journal, 2023, , 1-1.	4.7	0
1008	Problems with measurement at the borders between electricity transmission and distribution networks in Bulgaria. , 2023, , .		0
1009	An ampereâ€secondâ€vector pulse width modulation technique and faultâ€tolerant control for CSI11 fed fiveâ€phase permanent magnet synchronous motor with multiple harmonic electromotive forces. IET Electric Power Applications, 2023, 17, 1478-1501.	1.8	0
1010	General Switch Short-Circuit Fault-Tolerant Strategy of Active Magnetic Bearing Power Electronics Drive. IEEE Transactions on Power Electronics, 2023, , 1-11.	7.9	0
1011	Numerical and experiment study on ventilation performance of the equipment compartment of Alpine high-speed train. Engineering Applications of Computational Fluid Mechanics, 2023, 17, .	3.1	0
1012	Overview of fault detection approaches for grid connected photovoltaic inverters. E-Prime, 2022, 2, 100035.	2.0	0
1013	An Open-Circuit Fault Diagnosis Method Based on Adjacent Trend Line Relationship of Current Vector Trajectory for Motor Drive Inverter. Machines, 2023, 11, 928.	2.2	1
1014	DC-link Capacitance Estimation based on Discharge Profile of Inverter for EV Application. , 2023, , .		0
1015	Current Sensor Integration Issues with Wide-Bandgap Power Converters. Sensors, 2023, 23, 6481.	3.8	4

#	ARTICLE	IF	CITATIONS
1017	Protection of low voltage DC microgrids: A review. Electric Power Systems Research, 2023, 225, 109822.	3.6	0
1018	Open-Circuit Fault Diagnosis for Wave Energy Converters with Support Vector Machine. Lecture Notes in Electrical Engineering, 2023, , 1052-1058.	0.4	0
1019	Applications and Prospects of Online Insulation Monitoring Technique Based on Broadband Frequency Response for Transformers in Voltage Source Converter System. Lecture Notes in Electrical Engineering, 2023, , 730-747.	0.4	0
1020	Research on Online Monitoring Method for Bond Wire Fatigue Applied to IGBT Module. Electronics (Switzerland), 2023, 12, 3432.	3.1	0
1021	A Digital-Twin-Based Health Status Monitoring Method for Single-Phase PWM Rectifiers. IEEE Transactions on Power Electronics, 2023, 38, 14075-14087.	7.9	1
1022	Quantitative Comparison of the Empirical Lifetime Models for Power Electronic Devices in EV Fast Charging Application. , 2023, , .		3
1023	Pulse Width Modulation Method for Reliability Improvement of DC-link Capacitors and Power Devices of NPC Inverter. , 2023, , .		0
1024	A Novel Single and Multiple Switch Fault-Tolerant Multilevel Inverter Topology With Reduced Device Count. , 2023, , .		0
1025	Self-Evolving Digital Twin-based Online Health Monitoring of Multi-Phase Boost Converters. IEEE Transactions on Power Electronics, 2023, , 1-16.	7.9	0
1026	Failure Mode Classification of IGBT Modules Under Power Cycling Tests Based on Data-Driven Machine Learning Framework. IEEE Transactions on Power Electronics, 2023, 38, 16130-16141.	7.9	2
1027	3-Phase Boost Rectifier Condition Health Monitoring based on Digital Twin Technique. , 2023, , .		0
1028	A Fault-Estimation-Based Tolerant Control Method for Single-Phase PWM Rectifiers with Sensor Faults. , 2023, , .		0
1029	Solid-State Tuning Restorer for Second-Harmonic LC Filter in Single-Phase Converters. IEEE Transactions on Industry Applications, 2023, , 1-13.	4.9	1
1030	Junction temperature balance control for paralleled SiC MOSFETs based on active gate control. Microelectronics Reliability, 2023, , 115218.	1.7	0
1031	Load Profile Based Reliability Assessment of IGBT Module in Full-bridge DC/DC Converter for Fast Charging of EVs. , 2023, , .		2
1032	Thermal Stress Balancing for Lifetime Improvement of H6 Solar Inverter. , 2023, , .		0
1033	Improved performance of Kalman filter for junction temperature estimation with Autocovariance Least-Squares method. , 2023, , .		0
1034	Turn-Off Characteristic Monitoring of Power Electronic Devices in Three-Phase Inverters Based on ZYNQ. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
1035	Design for Reliability of Power Electronics Systems. , 2024, , 1387-1402.		0
1036	Power Electronic Modules. , 2024, , 151-170.		0
1037	A Counter-Based Open-Circuit Switch Fault Diagnostic Method for a Single-Phase Cascaded H-Bridge Multilevel Converter. IEEE Transactions on Power Electronics, 2024, 39, 814-825.	7.9	1
1038	Some Security Aspects of Batteries and Power Electronic Converters in a Microgrid. IEEE Access, 2023, 11, 121712-121723.	4.2	0
1039	A Novel Method for Diagnosing Power Electronics Devices Using Elastic Wave Emission. Energies, 2023, 16, 7405.	3.1	0
1040	Degradation state analysis of the IGBT module based on apparent junction temperature. Protection and Control of Modern Power Systems, 2023, 8, .	7.5	0
1041	Toward Physics-Informed Machine-Learning-Based Predictive Maintenance for Power Convertersâ€"A Review. IEEE Transactions on Power Electronics, 2024, 39, 2692-2720.	7.9	1
1042	An IGBT Device Health Status Assessment Method Considering the Influence of Operating Conditions. , 2023, , .		0
1043	Sub-module Capacitor Voltage Control for Alternate Arm Converter with Current Commutation Modulation. IEEE Transactions on Power Delivery, 2023, , 1-12.	4.3	0
1044	Study on the Variations in Precursor Parameters of Insulated Gate Bipolar Transistors and SiC MOSFETs for Fault Diagnosis. , 2023, , .		0
1045	Power and Thermal Cycling Testbed for End of Life Assessment of Semiconductor Devices. , 2023, , .		1
1046	End-of-Life Comparison of Full-Bridge and Half-Bridge DC/DC Converter Switches Used for EV Charging. , 2023, , .		0
1047	Monitoring IGBT Module Bond Wire Fatigue Use Turn-Off Time. , 2023, , .		0
1048	Wavelet-based rapid identification of IGBT switch breakdown in voltage source converter. Microelectronics Reliability, 2024, 152, 115283.	1.7	0
1049	Advances in Capacitor Health Monitoring Techniques for Power Converters: A Review. IEEE Access, 2023, 11, 133540-133576.	4.2	0
1050	Predicting the Temperature of the Electrolytic Capacitor Based on Neural Network Algorithm. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 6068-6078.	5.4	0
1051	Diagnosis Method for Power Switch Open-Circuit Fault of Triple Three-phase PMSM System in complex Operations. , 2023, , .		0
1052	An Improved Transient Control Strategy for Active Magnetic Bearing Open-Circuit Fault-Tolerant. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 827-837.	5.4	0

#	ARTICLE	IF	CITATIONS
1053	Fault-Tolerant Control of Open-Circuit Faults of Five-Phase Permanent Magnet Synchronous Motor with Current-Source-Inverter. , 2023, , .		0
1054	A HIGH FLOW RATE PIEZOELECTRIC MICROPUMP FOR MINIATURE LIQUID COOLING SYSTEM. , 2023, , .		0
1055	Solder die attach lifetime characterization of SOT-227 power MOSFET module in a three-phase inverter under power cycling. Journal of Mechanics, 0, , .	1.4	1
1056	Improving the reliability of silicon diodes via manufacturing process modification strategies. Journal of Materials Research and Technology, 2024, 28, 3882-3891.	5.8	0
1057	Faultâ€resilient control of parallel PV inverters using multiâ€agent twinâ€delayed deep deterministic policy gradient approach. International Journal of Circuit Theory and Applications, 0, , .	2.0	0
1058	Evaluation of Bipolar Degradation in SiC MOSFETs for Converter Design. , 2023, , .		0
1059	Detecting Power Module Thermal Resistance Change in Wind Turbine Converters with an Attention-based LSTM-Autoencoder Architecture. , 2023, , .		0
1060	Diagnosis of IGBT Module Bond Wire Independent of Temperature Based on BP Neural Network. , 2023, , .		0
1061	System-level Parameters Identification for DC-DC Converters Based on Artificial Neural Network Algorithm. , 2023, , .		0
1062	An Online Digital Twin based Health Monitoring Method for Boost Converter using Neural Network. , 2023, , .		0
1063	Parameters Estimation of a 3-Phase AC-DC Converter based on the Digital Twin Method. , 2023, , .		0
1064	Stress Management of Wind Turbine Components by using PCM-Integrated Power Modules. , 2023, , .		0
1066	A Reversible Residual Network-Aided Canonical Correlation Analysis to Fault Detection and Diagnosis in Electrical Drive Systems. IEEE Transactions on Instrumentation and Measurement, 2024, 73, 1-10.	4.7	1
1067	Neuro-Inspired HTM-Based Online Capacitor Aging Detection of DC-Link Capacitors in Power Electronic Converters. , 2023, , .		0
1068	Online Condition Monitoring Methodology for Power Electronics Package Reliability Assessment. IEEE Transactions on Power Electronics, 2024, 39, 4725-4734.	7.9	0
1069	Fault Diagnosis in Wind Turbine Current Sensors: Detecting Single and Multiple Faults with the Extended Kalman Filter Bank Approach. Sensors, 2024, 24, 728.	3.8	0
1070	Short-Circuit Current Capability Comparison of Three-Level Active Neutral-Point-Clamped Converter Under Different Modulation Schemes. , 2023, , .		0
1071	A Fast and Simple Open-Circuit-Fault Diagnosis for T-Type Three-Level Power Converters. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
1072	Diagnosis of Frequency Converter Malfunctions as Part of a Frequency-Controlled Electric Drive. , 2023, , .		0
1073	Regulation Method and Mechanism of Functionalized Modified Nano Filler on Electrical Properties of Epoxy Resin. Engineering Materials, 2024, , 135-187.	0.6	0
1074	Large bandwidth and dynamic range current sensor based on micro-PCB Rogowski coil. Measurement Science and Technology, 2024, 35, 055107.	2.6	0
1075	A Review on Digital Twins and Its Application in the Modeling of Photovoltaic Installations. Energies, 2024, 17, 1227.	3.1	0
1076	Digital Twin-based Predictive Maintenance for Sheet Metal Bending. Procedia Computer Science, 2024, 232, 504-512.	2.0	0