

Ui-Min Choi

List of Publications by Year in descending order

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1686
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Reliability Improvement of Power Converters by Means of Condition Monitoring of IGBT Modules. IEEE Transactions on Power Electronics, 2017, 32, 7990-7997.	7.9	139
6	Simple Neutral-Point Voltage Control for Three-Level Inverters Using a Discontinuous Pulse Width Modulation. IEEE Transactions on Energy Conversion, 2013, 28, 434-443.	5.2	136
7	New Modulation Strategy to Balance the Neutral-Point Voltage for Three-Level Neutral-Clamped Inverter Systems. IEEE Transactions on Energy Conversion, 2014, 29, 91-100.	5.2	127
8	Advanced Accelerated Power Cycling Test for Reliability Investigation of Power Device Modules. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	118
9	Control Strategy of Two Capacitor Voltages for Separate MPPTs in Photovoltaic Systems Using Neutral-Point-Clamped Inverters. IEEE Transactions on Industry Applications, 2015, 51, 3295-3303.	4.9	76
10	Study on Effect of Junction Temperature Swing Duration on Lifetime of Transfer Molded Power IGBT Modules. IEEE Transactions on Power Electronics, 2017, 32, 6434-6443.	7.9	73
11	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
12	Prediction and Validation of Wear-Out Reliability Metrics for Power Semiconductor Devices With Mission Profiles in Motor Drive Application. IEEE Transactions on Power Electronics, 2018, 33, 9843-9853.	7.9	57
13	Space vector modulation strategy for neutral-point voltage balancing in three-level inverter systems. IET Power Electronics, 2013, 6, 1390-1398.	2.1	55
14	Method to Minimize the Low-Frequency Neutral-Point Voltage Oscillations With Time-Offset Injection for Neutral-Point-Clamped Inverters. IEEE Transactions on Industry Applications, 2015, 51, 1678-1691.	4.9	54
15	Comparison of Tolerance Controls for Open-Switch Fault in a Grid-Connected T-Type Rectifier. IEEE Transactions on Power Electronics, 2015, 30, 5810-5820.	7.9	51
16	Separation of Wear-Out Failure Modes of IGBT Modules in Grid-Connected Inverter Systems. IEEE Transactions on Power Electronics, 2018, 33, 6217-6223.	7.9	51
17	Neutral-Point Voltage Balancing Method for Three-Level Inverter Systems with a Time-Offset Estimation Scheme. Journal of Power Electronics, 2013, 13, 243-249.	1.5	36
18	Effect of Asymmetric Layout of IGBT Modules on Reliability of Motor Drive Inverters. IEEE Transactions on Power Electronics, 2019, 34, 1765-1772.	7.9	20

#	ARTICLE	IF	CITATIONS
19	Impact of Cooling System Capacity on Lifetime of Power Module in Adjustable Speed Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1768-1776.	5.4	13
20	Comparative Evaluation of Efficiency and Reliability of Single-Phase Five-Level NPC Inverters for Photovoltaic Systems. IEEE Access, 2021, 9, 120638-120651.	4.2	12
21	Asymmetric power device rating selection for even temperature distribution in NPC inverter. , 2017, , .		11
22	Study on Effect of Installation Location on Lifetime of PV Inverter and DC-to-AC Ratio. IEEE Access, 2020, 8, 86003-86011.	4.2	11
23	Comparative Evaluation of Lifetime of Three-Level Inverters in Grid-Connected Photovoltaic Systems. Energies, 2020, 13, 1227.	3.1	8
24	Advanced power cycling test for power module with on-line on-state V_{CE} measurement. , 2015, , .		7
25	A novel active T-type three-level converter with open-circuit fault-tolerant control. , 2015, , .		5
26	Comparison of Heat-Pipe Cooling System Design Processes in Railway Propulsion Inverter Considering Power Module Reliability. Energies, 2019, 12, 4676.	3.1	5
27	Lifetime prediction of IGBT modules based on linear damage accumulation. , 2017, , .		4
28	Independent control strategy of two DC-link voltages for separate MPPTs in transformerless photovoltaic systems using neutral-point-clamped inverters. , 2014, , .		3
29	Effect of junction temperature swing durations on a lifetime of a transfer molded IGBT module. , 2016, , .		3
30	Impacts of ripple current to the loading and lifetime of power semiconductor device. , 2017, , .		3
31	Reliability metrics extraction for power electronics converter stressed by thermal cycles. , 2017, , .		3
32	Effect of asymmetric layout of IGBT modules on reliability of power inverters in motor drive system. , 2018, , .		3
33	Method to minimize the low-frequency neutral-point voltage oscillations with time-offset injection for neutral-point-clamped inverters. , 2013, , .		2
34	Open-circuit fault diagnosis for a grid-connected NPC inverter with unity Power Factor. , 2015, , .		2
35	Asymmetric Pulse Width Modulation for Improving the Reliability of Motor Drive Inverters. , 2018, , .		1
36	Velocity Profile-Based Evaluation and Improvement of Lifetime of Power Devices in Railway Propulsion Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1384-1394.	5.4	1