## Real Field Mission Profile Oriented Design of a SiC-Base

IEEE Transactions on Industry Applications 50, 4082-4089 DOI: 10.1109/tia.2014.2312545

**Citation Report** 

#	Article	IF	CITATIONS
1	Fault tolerant topology for two level VSI and transformerless grid connected inverters. , 2014, , .		5
2	A low cost reliable stand-alone photo-voltaic system. , 2014, , .		4
3	Comparison of a state of the art Si IGBT and next generation fast switching devices in a 4 kW boost converter. , 2015, , .		8
4	DC-Bus Voltage Range Extension in 1500 V Photovoltaic Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 901-917.	5.4	102
5	Prediction of bond wire fatigue of IGBTs in a PV inverter under long-term operation. , 2015, , .		10
6	PV array voltage range extension for photovoltaic inverters using a mini-boost. , 2016, , .		6
7	Mission profile based sizing of IGBT chip area for PV inverter applications. , 2016, , .		13
8	Cost assessment of three power decoupling methods in a single-phase power converter with a reliability-oriented design procedure. , 2016, , .		10
9	Comprehensive Study of the Performance of SiC MOSFET-Based Automotive DC–DC Converter Under the Influence of Parasitic Inductance. IEEE Transactions on Industry Applications, 2016, 52, 5100-5111.	4.9	72
10	A 60-kW 3-kW/kg Five-Level T-Type SiC PV Inverter With 99.2% Peak Efficiency. IEEE Transactions on Industrial Electronics, 2017, 64, 9144-9154.	7.9	81
11	Switching Characterization and Short-Circuit Protection of 1200 V SiC MOSFET T-Type Module in PV Inverter Application. IEEE Transactions on Industrial Electronics, 2017, 64, 9135-9143.	7.9	71
12	Improved PV Inverter Operating Range Using a Miniboost. IEEE Transactions on Power Electronics, 2017, 32, 8470-8485.	7.9	51
13	Mission profile characterization of PV systems for the specification of power converter design requirements. Solar Energy, 2017, 157, 263-276.	6.1	13
14	Highâ€efficiency PV inverter with SiC technology. IET Renewable Power Generation, 2018, 12, 149-156.	3.1	7
15	Stability Analysis and Grid Disturbance Rejection for a 60-kW SiC-Based Filterless Grid-Connected PV Inverter. IEEE Transactions on Industry Applications, 2018, 54, 5025-5038.	4.9	18
16	Mission Profile based Reliability Analysis of a Medium Voltage Power Conversion Architecture for PMSG based Wind Energy Conversion System. , 2018, , .		1
17	Operating principles and practical design aspects of all SiC DC/AC/DC converter for MPPT in grid-connected PV supplies. Solar Energy, 2018, 176, 380-394.	6.1	18
18	An accurate calorimetric method for measurement of switching losses in silicon carbide (SiC) MOSFETs. , 2018, , .		9

ATION REDO

#	Article	IF	CITATIONS
19	Single-Phase Z-Source/Quasi-Z-Source Inverters and Converters: An Overview of Double-Line-Frequency Power-Decoupling Methods and Perspectives. IEEE Industrial Electronics Magazine, 2018, 12, 6-23.	2.6	98
20	All SiC Grid-Connected PV Supply with HF Link MPPT Converter: System Design Methodology and Development of a 20 kHz, 25 kVA Prototype. Electronics (Switzerland), 2018, 7, 85.	3.1	13
21	Phaseâ€shift full bridge power supply based on SiC devices. Journal of Engineering, 2018, 2018, 453-460.	1.1	2
22	Design of SiC-based single-phase quasi-Z-source inverter. , 2018, , .		3
23	Effect of Weather Conditions on Harmonic Performance of PV Inverters. Electric Power Components and Systems, 2019, 47, 1233-1246.	1.8	2
24	A Method for Accelerated Aging Tests of Power Modules for Photovoltaic Inverters Considering the Inverter Mission Profiles. IEEE Transactions on Power Electronics, 2019, 34, 12226-12234.	7.9	7
25	Achieving Zero Switching Loss in Silicon Carbide MOSFET. IEEE Transactions on Power Electronics, 2019, 34, 12193-12199.	7.9	41
26	Performance Evaluation of a Boost Integrated Three-Phase PV Inverter Operating With Current Unfolding Principle. , 2019, , .		5
27	An Analog Active Gate Drive Circuit Architecture for Wide Band Gap Devices. , 2019, , .		6
28	Thermal Performance Evaluation of a 1.7-kV, 450-A SiC-MOSFET Based Modular Three-Phase Power Block With Wide Fundamental Frequency Operations. IEEE Transactions on Industry Applications, 2019, 55, 1795-1806.	4.9	14
29	Design, Analysis, and Impacts of Sinusoidal <i>LC</i> Filter on Pulsewidth Modulated Inverter Fed-Induction Motor Drive. IEEE Transactions on Industrial Electronics, 2020, 67, 2678-2688.	7.9	45
30	An Accurate Calorimetric Loss Measurement Method for SiC MOSFETs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1644-1656.	5.4	26
31	Mission profile-oriented configuration of PV panels for lifetime and cost-efficiency of PV inverters. Microelectronics Reliability, 2020, 114, 113944.	1.7	5
32	Mission profiles and hygrothermal conditions: Its effects on the reliability of a soft switching converter. Microelectronics Reliability, 2020, 111, 113707.	1.7	1
33	Intercell Transformer (ICT) Design Optimization and Interphase Crosstalk Mitigation of a 100-kW SiC Filter-Less Grid-Connected PV String Inverter. IEEE Open Journal of Power Electronics, 2020, 1, 51-63.	5.7	5
34	Passive Resonant Level Shifter for Suppression of Crosstalk Effect and Reduction of Body Diode Loss of SiC MOSFETs in Bridge Legs. IEEE Transactions on Power Electronics, 2020, 35, 7204-7225.	7.9	12
35	Real-Life Mission Profile-Oriented Lifetime Estimation of a SiC Interleaved Bidirectional HV DC/DC Converter for Electric Vehicle Drivetrains. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5142-5167.	5.4	20
36	An overview of grid-edge control with the digital transformation. Electrical Engineering, 2021, 103, 1989-2007.	2.0	9

CITATION REPORT

#ARTICLEIFCITATIONS37ALimited Common-Mode Current Switched-Capacitor Multilevel Inverter Topology and Its<br/>Performance and Lifetime Evaluation in Grid-Connected Photovoltaic Applications. Energies, 2021, 14,<br/>1915.3.11438Aroad map for reliable power electronics for more electric aircraft. Progress in Aerospace Sciences,<br/>021, 127, 100739.12.12640On the Reliability of Transformerless Photovoltaic DC/AC Converters Based on Mission Profile.2.52

**CITATION REPORT**