

Steffen Bernet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4449418/publications.pdf>

Version: 2024-02-01

44
papers

2,943
citations

933264

10
h-index

887953

17
g-index

46
all docs

46
docs citations

46
times ranked

2311
citing authors

#	ARTICLE	IF	CITATIONS
1	SiC-MOSFET or Si-IGBT: Comparison of Design and Key Characteristics of a 690 V Grid-Tied Industrial Two-Level Voltage Source Converter. <i>Energies</i> , 2021, 14, 3054.	1.6	7
2	Limits of enhanced desaturation detection method with adaptive blanking for GaN HEMTs. , 2020, , .		1
3	Switching Behavior and Comparison of 600V SMD Wide Bandgap Power Devices. , 2020, , .		0
4	Comparison of 1700-V SiC-MOSFET and Si-IGBT Modules Under Identical Test Setup Conditions. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 7765-7775.	3.3	25
5	Input Filter for a Power Electronics Transformer in a Railway Traction Application. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 9449-9458.	5.2	10
6	New flatness-based control of a high-voltage generator for medical X-ray applications. <i>Journal of Engineering</i> , 2018, 2018, 1799-1805.	0.6	1
7	Online collector-emitter saturation voltage measurement for the in-situ temperature estimation of a high-power 4.5 kV IGBT module. , 2017, , .		1
8	Comparative evaluation of losses in 3L and 5L ANPC converters using HV-IGBT modules. , 2015, , .		4
9	Online temperature estimation of a high-power 4.5 kV IGBT module based on the gate-emitter threshold voltage. , 2015, , .		11
10	Delay time compensation for parallel connected IGBTs: Implementation and extension for n IGBTs. , 2014, , .		1
11	Decoupled capacitor voltage control of modular multilevel converters. , 2014, , .		10
12	Discrete-Time Active Damping of ω_c Resonance by Proportional Capacitor Current Feedback. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 3911-3920.	3.3	25
13	Reduction of low-order-even-harmonics in grid connected inverters for renewable energy systems using delta-sigma based A/D conversion. , 2014, , .		0
14	Evaluation of 6.5-kV SiC p-i-n Diodes in a Medium-Voltage, High-Power 3L-NPC Converter. <i>IEEE Transactions on Power Electronics</i> , 2014, 29, 5148-5156.	5.4	10
15	Sinusoidal Current Operation of Delay-Time Compensation for Parallel-Connected IGBTs. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 3485-3493.	3.3	15
16	High frequency transformer with synchronous rectifier for resistance spot welding. , 2013, , .		2
17	Experimental verification of direct dead-time Control and DC-link neutral-point balancing of a three level neutral-point-clamped (3L-NPC) VSC. , 2013, , .		7
18	Discrete-time optimal active damping of LCL resonance in grid connected converters by proportional capacitor current feedback. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
19	Characterization of 4.5 kV/2.4 kA press pack IGBT including comparison with IGCT. , 2013, , .		9
20	Comprehensive design of DC busbars for medium voltage applications. , 2013, , .		10
21	Investigation of oscillations in a 6.5-kV, 1-kA SiC diode module. , 2013, , .		1
22	Loss reduction in a medium frequency series resonance converter by forced evacuation. , 2013, , .		0
23	Advanced Gate Drive Unit With Closed-Loop $\frac{di_{C}}{dt}$ Control. IEEE Transactions on Power Electronics, 2013, 28, 2587-2595.	5.4	50
24	Analysis and space-vector-modulation of a 4L-3B6-VSC. , 2013, , .		0
25	Characterization of a new 6.5 kV 1000A SiC diode for medium voltage converters. , 2012, , .		4
26	Sinusoidal current operation of delay time compensation for parallel connected IGBTs. , 2012, , .		3
27	Direct dead-time control - a novel dc-link neutral-point balancing method for the three-level neutral-point-clamped voltage source inverter. , 2012, , .		9
28	Level-Shifted PWM for a multilevel traction converter using a state composer. , 2012, , .		2
29	Optimization of a series resonant DCIDC converter for traction applications. , 2012, , .		6
30	Comparison of IGCT and IGBT for the use in the modular multilevel converter for HVDC applications. , 2012, , .		38
31	A novel topology to characterize high voltage IGBTs in a soft switching converter. , 2011, , .		3
32	Characterization of a 6.5 kV / 500A IGBT module in a series resonant converter. , 2011, , .		19
33	A new delay time compensation principle for parallel connected IGBTs. , 2011, , .		32
34	Characterization of a new 4.5 kV press pack SPT+ IGBT in Voltage Source Converters with clamp circuit. , 2010, , .		4
35	Simulation and experimental investigation of parallel connected IGBTs. , 2010, , .		15
36	Parallel Connection of Integrated Gate Commutated Thyristors (IGCTs) and Diodes. IEEE Transactions on Power Electronics, 2009, 24, 2159-2170.	5.4	50

#	ARTICLE	IF	CITATIONS
37	Characterization of a new 4.5 kV press pack SPT+ IGBT for medium voltage converters. , 2009, , .		31
38	Design of LCL Filters of Active-Front-End Two-Level Voltage-Source Converters. IEEE Transactions on Industrial Electronics, 2009, 56, 1674-1689.	5.2	364
39	Design and Evaluation Criteria for High Power Drives. , 2008, , .		35
40	Parallel connection of Integrated Gate Commutated Thyristors and diodes. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	1
41	How to Select the System Voltage of MV Drives – A Comparison of Semiconductor Expenses. IEEE Transactions on Industrial Electronics, 2008, 55, 3381-3390.	5.2	61
42	Comparison of Medium Voltage IGBT-based 3L-ANPC-VSCs. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	9
43	Multilevel Voltage-Source-Converter Topologies for Industrial Medium-Voltage Drives. IEEE Transactions on Industrial Electronics, 2007, 54, 2930-2945.	5.2	1,938
44	Feedforward Loss Control of Three-Level Active NPC Converters. IEEE Transactions on Industry Applications, 2007, 43, 1588-1596.	3.3	107