

Haoze Luo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/49605/haoze-luo-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

202
papers

6,023
citations

37
h-index

73
g-index

245
ext. papers

7,868
ext. citations

5.6
avg, IF

6.28
L-index

#	Paper	IF	Citations
202	Review of Nonisolated High-Step-Up DC/DC Converters in Photovoltaic Grid-Connected Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 1239-1250	8.9	739
201	Improved Transformerless Inverter With Common-Mode Leakage Current Elimination for a Photovoltaic Grid-Connected Power System. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 752-762	7.2	354
200	Topology Review and Derivation Methodology of Single-Phase Transformerless Photovoltaic Inverters for Leakage Current Suppression. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4537-4551	8.9	329
199	Design and Analysis of a Grid-Connected Photovoltaic Power System. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 992-1000	7.2	302
198	Mode-Adaptive Decentralized Control for Renewable DC Microgrid With Enhanced Reliability and Flexibility. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 5072-5080	7.2	255
197	Transformerless Inverter With Virtual DC Bus Concept for Cost-Effective Grid-Connected PV Power Systems. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 793-805	7.2	185
196	Interleaved Converter With Voltage Multiplier Cell for High Step-Up and High-Efficiency Conversion. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 2397-2408	7.2	162
195	Frequency-Coordinating Virtual Impedance for Autonomous Power Management of DC Microgrid. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 2328-2337	7.2	146
194	Single-Phase Improved Active Clamp Coupled-Inductor-Based Converter With Extended Voltage Doubler Cell. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2869-2878	7.2	112
193	Interleaved High Step-Up ZVT Converter With Built-In Transformer Voltage Doubler Cell for Distributed PV Generation System. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 300-313	7.2	110
192	High Step-Up Interleaved Converter With Built-In Transformer Voltage Multiplier Cells for Sustainable Energy Applications. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 2829-2836	7.2	109
191	Single-Switch High Step-Up Converters With Built-In Transformer Voltage Multiplier Cell. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 3557-3567	7.2	101
190	High-Step-Up and High-Efficiency Fuel-Cell Power-Generation System With Active-Clamp Flyback/Forward Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 599-610	8.9	95
189	Single-Stage Single-Phase High-Step-Up ZVT Boost Converter for Fuel-Cell Microgrid System. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 3057-3065	7.2	93
188	An Extremely High Efficient Three-Level Active Neutral-Point-Clamped Converter Comprising SiC and Si Hybrid Power Stages. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 8341-8352	7.2	92
187	An Interleaved Winding-Coupled Boost Converter With Passive Lossless Clamp Circuits. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 1499-1507	7.2	90
186	Junction Temperature Extraction Approach With Turn-Off Delay Time for High-Voltage High-Power IGBT Modules. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	82

185	A Family of Interleaved DC/DC Converters Deduced From a Basic Cell With Winding-Cross-Coupled Inductors (WCCIs) for High Step-Up or Step-Down Conversions. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 1791-1801	7.2	80
184	Analysis, Design, and Experimentation of an Isolated ZVT Boost Converter With Coupled Inductors. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 541-550	7.2	79
183	PWM Plus Phase Angle Shift (PPAS) Control Scheme for Combined Multiport DC/DC Converters. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1479-1489	7.2	77
182	A Review of Non-Isolated High Step-Up DC/DC Converters in Renewable Energy Applications 2009 ,		72
181	Design and Analysis of Isolated ZVT Boost Converters for High-Efficiency and High-Step-Up Applications. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 2363-2374	7.2	70
180	Overview of Current Microgrid Policies, Incentives and Barriers in the European Union, United States and China. <i>Sustainability</i> , 2017 , 9, 1146	3.6	69
179	Improved Nearest-Level Modulation for a Modular Multilevel Converter With a Lower Submodule Number. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5369-5377	7.2	68
178	A Family of Isolated Interleaved Boost and Buck Converters With Winding-Cross-Coupled Inductors. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 3164-3173	7.2	66
177	Passivity-Based Control of DC Microgrid for Self-Disciplined Stabilization. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2623-2632	7	65
176	Advanced Symmetrical Voltage Quadrupler Rectifiers for High Step-Up and High Output-Voltage Converters. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 1622-1631	7.2	63
175	Secondary-Side Phase-Shift-Controlled ZVS DC/DC Converter With Wide Voltage Gain for High Input Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 5128-5139	7.2	58
174	. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 2880-2887	4.3	56
173	Isolated Winding-Coupled Bidirectional ZVS Converter With PWM Plus Phase-Shift (PPS) Control Strategy. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3560-3570	7.2	53
172	Flexible Fault-Tolerant Topology for Switched Reluctance Motor Drives. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4654-4668	7.2	52
171	Average-Value Model of Modular Multilevel Converters Considering Capacitor Voltage Ripple. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 723-732	4.3	48
170	Decoupling-Controlled Triport Compositd DC/DC Converter for Multiple Energy Interface. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4504-4513	8.9	48
169	Analysis and Control of Bipolar LVDC Grid With DC Symmetrical Component Method. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 685-694	7	43
168	Imbalance Mechanism and Balanced Control of Capacitor Voltage for a Hybrid Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 5686-5696	7.2	43

167	Single-Phase High Step-up Converter With Improved Multiplier Cell Suitable for Half-Bridge-Based PV Inverter System. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 2807-2816	7.2	39
166	Modular Multilevel DC/DC Converters With Phase-Shift Control Scheme for High-Voltage DC-Based Systems. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 99-107	7.2	37
165	Three-phase interleaved high-step-up converter with coupled-inductor-based voltage quadrupler. <i>IET Power Electronics</i> , 2014 , 7, 1841-1849	2.2	37
164	Detection and Localization of Submodule Open-Circuit Failures for Modular Multilevel Converters With Single Ring Theorem. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3729-3739	7.2	32
163	Asymmetrical Duty Cycle-Controlled LLC Resonant Converter With Equivalent Switching Frequency Doubler. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	30
162	Investigation and Classification of Short-Circuit Failure Modes Based on Three-Dimensional Safe Operating Area for High-Power IGBT Modules. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1075-1086	7.2	30
161	Central-Tapped Node Linked Modular Fault-Tolerance Topology for SRM Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1541-1554	7.2	30
160	High Off-State Impedance Gate Driver of SiC MOSFETs for Crosstalk Voltage Elimination Considering Common-Source Inductance. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2999-3011	7.2	30
159	Enabling Junction Temperature Estimation via Collector-Side Thermo-Sensitive Electrical Parameters Through Emitter Stray Inductance in High-Power IGBT Modules. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4724-4738	8.9	30
158	Analysis, design and implementation of isolated bidirectional converter with winding-cross-coupled inductors for high step-up and high step-down conversion system. <i>IET Power Electronics</i> , 2014 , 7, 67-77	2.2	29
157	Series Asymmetrical Half-Bridge Converters With Voltage Autobalance for High Input-Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 3665-3674	7.2	29
156	Improved Virtual Vector Control of Single-Phase Inverter Based on Unified Model. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 611-618	5.4	29
155	Three-Level Forward Flyback Phase-Shift ZVS Converter With Integrated Series-Connected Coupled Inductors. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2846-2856	7.2	29
154	Online High-Power P-i-N Diode Chip Temperature Extraction and Prediction Method With Maximum Recovery Current di/dt . <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 2395-2404	7.2	28
153	Nature of power electronics and integration of power conversion with communication for talkative power. <i>Nature Communications</i> , 2020 , 11, 2479	17.4	28
152	Hybrid-bridge transformerless photovoltaic grid-connected inverter. <i>IET Power Electronics</i> , 2015 , 8, 439-446	2.2	26
151	Analytical and Experimental Investigation on A Dynamic Thermo-Sensitive Electrical Parameter With Maximum di_{C}/dt During Turn-off for High Power Trench Gate/Field-Stop IGBT Modules. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6394-6404	7.2	26
150	Theoretical Evaluation of Stability Improvement Brought by Resonant Current Loop for Paralleled LLC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 4170-4180	8.9	26

149	IPMSMs Sensorless MTPA Control Based on Virtual q-Axis Inductance by Using Virtual High-Frequency Signal Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 136-146	8.9	24
148	Flying-Capacitor-Based Hybrid LLC Converters With Input Voltage Autobalance Ability for High Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1908-1920	7.2	23
147	Role of Threshold Voltage Shift in Highly Accelerated Power Cycling Tests for SiC MOSFET Modules. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1657-1667	5.6	23
146	A Modular Multilevel Resonant DC/DC Converter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7921-7932	7.2	21
145	Aging precursors and degradation effects of SiC-MOSFET modules under highly accelerated power cycling conditions 2017 ,		20
144	Simultaneous On-State Voltage and Bond-Wire Resistance Monitoring of Silicon Carbide MOSFETs. <i>Energies</i> , 2017 , 10, 384	3.1	20
143	Neutral-Point-Shift-Based Active Thermal Control for a Modular Multilevel Converter Under a Single-Phase-to-Ground Fault. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2474-2484	8.9	19
142	Active gate driving method for reliability improvement of IGBTs via junction temperature swing reduction 2016 ,		18
141	Online Junction Temperature Extraction of SiC Power mosfets With Temperature Sensitive Optic Parameter (TSOP) Approach. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 10143-10152	7.2	18
140	Highly efficient and reliable inverter concept-based transformerless photovoltaic inverters with tri-direction clamping cell for leakage current elimination. <i>IET Power Electronics</i> , 2016 , 9, 1675-1683	2.2	16
139	A Coupled-Inductor-Based LCC Resonant Converter With the Primary-Parallel/Secondary-Series Configuration to Achieve Output-Voltage Sharing for HV Generator Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6108-6122	7.2	16
138	Online High-Power p-i-n Diode Junction Temperature Extraction With Reverse Recovery Fall Storage Charge. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2558-2567	7.2	15
137	Synchronous frequency resonance of virtual synchronous generators and damping control 2015 ,		15
136	Decoupled Current Control With Synchronous Frequency Damping for MMC Considering Sub-module Capacitor Voltage Ripple. <i>IEEE Transactions on Power Delivery</i> , 2018 , 33, 419-428	4.3	15
135	Modern IGBT gate driving methods for enhancing reliability of high-power converters: An overview. <i>Microelectronics Reliability</i> , 2016 , 58, 141-150	1.2	15
134	Online junction temperature extraction with turn-off delay time for high power IGBTs 2014 ,		15
133	A smart and simple PV charger for portable applications 2010 ,		15
132	Application Summarization of Coupled Inductors in DC/DC Converters 2009 ,		15

131	Die degradation effect on aging rate in accelerated cycling tests of SiC power MOSFET modules. <i>Microelectronics Reliability</i> , 2017 , 76-77, 415-419	1.2	14
130	Common-mode voltage injection-based nearest level modulation with loss reduction for modular multilevel converters. <i>IET Renewable Power Generation</i> , 2016 , 10, 798-806	2.9	14
129	An SiC MOSFET and Si Diode Hybrid Three-Phase High-Power Three-Level Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6076-6087	7.2	14
128	Medium Voltage Soft-Switching DC/DC Converter With Series-Connected SiC MOSFETs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 1451-1462	7.2	14
127	On-line solder layer degradation measurement for SiC-MOSFET modules under accelerated power cycling condition. <i>Microelectronics Reliability</i> , 2018 , 88-90, 563-567	1.2	14
126	DC Voltage Ripple Optimization of a Single-Stage Solid-State Transformer Based on the Modular Multilevel Matrix Converter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12801-12815	7.2	13
125	A Feedback Passivation Design for DC Microgrid and Its DC/DC Converters. <i>Energies</i> , 2017 , 10, 14	3.1	13
124	Capacitor Voltage Balance Control of Hybrid Modular Multilevel Converters With Second- Order Circulating Current Injection. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 157-167	5.6	13
123	Active Thermal Control for Hybrid Modular Multilevel Converter Under Overmodulation Operation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4242-4255	7.2	13
122	Recent advances and trend of HEV/EV-oriented power semiconductors: An overview. <i>IET Power Electronics</i> , 2020 , 13, 394-404	2.2	12
121	Unified Equivalent Steady-State Circuit Model and Comprehensive Design of the LCC Resonant Converter for HV Generation Architectures. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7531-7544	7.2	12
120	Investigation and Emulation of Junction Temperature for High-Power IGBT Modules Considering Grid Codes. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018 , 6, 930-940	5.6	12
119	A non-isolated interleaved ZVT boost converter with high step-up conversion derived from its isolated counterpart 2007 ,		12
118	Study of Current Density Influence on Bond Wire Degradation Rate in SiC MOSFET Modules. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1622-1632	5.6	12
117	Motion-Induction Compensation to Mitigate Sub-Synchronous Oscillation in Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1247-1256	8.2	12
116	Virtual Quadrature Source-Based Sinusoidal Modulation Applied to High-Frequency Link Converter Enabling Arbitrary Direct AC-AC Power Conversion. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4195-4208	7.2	11
115	Overview of supercapacitor voltage equalisation circuits for an electric vehicle charging application 2010 ,		11
114	Space Vector Modulation for SiC and Si Hybrid ANPC Converter in Medium-Voltage High-Speed Drive System. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3390-3401	7.2	11

113	Compact Sandwiched Press-Pack SiC Power Module With Low Stray Inductance and Balanced Thermal Stress. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2237-2241	7.2	11
112	Dynamic junction temperature estimation via built-in negative thermal coefficient (NTC) thermistor in high power IGBT modules 2017 ,		10
111	A 3D Thermal Network Model for Monitoring Imbalanced Thermal Distribution of Press-Pack IGBT Modules in MMC-HVDC Applications. <i>Energies</i> , 2019 , 12, 1319	3.1	10
110	Separation test method for investigation of current density effects on bond wires of SiC power MOSFET modules 2017 ,		10
109	Advanced Four-Pair Architecture With Input Current Balance Function for Power Over Ethernet (PoE) System. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2343-2355	7.2	10
108	Design of Active SiC MOSFET Gate Driver for Crosstalk Suppression Considering Impedance Coordination between Gate Loop and Power Loop 2019 ,		9
107	Analysis and compensation of dead-time effect considering parasitic capacitance and ripple current 2015 ,		9
106	Partial Power Conversion Device Without Large Electrolytic Capacitors for Power Flow Control and Voltage Compensation. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 4847-4857	7.2	9
105	A non-isolated high step-up converter with built-in transformer derived from its isolated counterpart 2010 ,		9
104	Phase-shifted full bridge converter featuring ZVS over the full load range 2010 ,		9
103	An Improved ZVT PWM Three Level Boost Converter for Power Factor Preregulator 2007 ,		9
102	Common-Mode Current Suppression of Transformerless Nested Five-Level Converter With Zero Common-Mode Vectors. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 4249-4258	7.2	9
101	Arm Phase-Shift Conducting Modulation for Alternate Arm Multilevel Converter With Half-Bridge Submodules. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 5223-5235	7.2	9
100	Implications of Ageing Through Power Cycling on the Short-Circuit Robustness of 1.2-kV SiC mosfets. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 11182-11190	7.2	8
99	EM-Electrothermal Analysis of Semiconductor Power Modules. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019 , 9, 1495-1503	1.7	8
98	A transformerless grid connected photovoltaic inverter with switched capacitors 2011 ,		8
97	An active clamp ZVT converter with input-parallel and output-series configuration 2010 ,		8
96	A thermo-sensitive electrical parameter with maximum dIC/dt during turn-off for high power Trench/Field-Stop IGBT modules 2016 ,		7

95	Three-level frequency-doubling LLC resonant converter with high step-down ratio for high input voltage applications 2014 ,		7
94	Performance analysis of coupled inductor based multiple-input DC/DC converter with PWM plus phase-shift (PPS) control strategy 2013 ,		7
93	Simple Moving Voltage Average Incremental Conductance MPPT Technique with Direct Control Method under Nonuniform Solar Irradiance Conditions. <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-12	2.1	7
92	A high-efficiency single-phase inverter for transformerless photovoltaic grid-connection 2014 ,		7
91	General Derivation Law With Torque-Free Achieving of Integral On-Board Charger on Compact Powertrains. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1791-1802	8.9	7
90	Energy Compression of Dielectric Barrier Discharge With Third Harmonic Circulating Current in Current-Fed Parallel-Series Resonant Converter. <i>IEEE Transactions on Power Electronics</i> , 2016 , 1-1	7.2	6
89	Polynomial Curve Slope Compensation for Peak-Current-Mode-Controlled Power Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 470-481	8.9	6
88	Performance analysis of composite five-level converter with dual T type and diode modules 2013 ,		6
87	Enhanced HERIC based transformerless inverter with hybrid clamping cell for leakage current elimination 2015 ,		6
86	Interleaved ZVT Boost Converters with Winding-Coupled Inductors and Built-In LC Low Pass Output Filter Suitable for Distributed Fuel Cell Generation System 2007 ,		6
85	AR-Aided Smart Sensing for In-Line Condition Monitoring of IGBT Wafer. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8197-8204	8.9	6
84	Improved Surface Modification of Polymer Films by Energy-Compressed Dielectric Barrier Discharge With Discharge-Time-Regulated Power Source. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 60-67	1.3	5
83	Thermal Optimization of Modular Multilevel Converters With Surplus Submodule Active-Bypass Plus Neutral-Point-Shift Scheme Under Unbalanced Grid Conditions. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1777-1788	5.6	5
82	Non-Contact Degradation Evaluation for IGBT Modules Using Eddy Current Pulsed Thermography Approach. <i>Energies</i> , 2020 , 13, 2613	3.1	5
81	Performance analysis of interleaved boost converter with voltage gain extension cell 2012 ,		5
80	A novel elevator load torque identification method based on friction mode 2010 ,		5
79	An isolated interleaved active-clamp ZVT flyback-boost converter with coupled inductors 2007 ,		5
78	A new soft switching snubber for the interleaved boost converters		5

77	High-power bidirectional resonant DCDC converter with equivalent switching frequency doubler. <i>IET Renewable Power Generation</i> , 2016 , 10, 834-842	2.9	5
76	A Modified RC Snubber With Coupled Inductor for Active Voltage Balancing of Series-Connected SiC MOSFETs. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 11208-11220	7.2	5
75	A current sensorless IGBT junction temperature extraction method via parasitic parameters between power collector and auxiliary collector 2017 ,		4
74	Self-disciplined stabilization of DC microgrids by passivity-based control 2015 ,		4
73	IGBT junction temperature measurement via combined TSEPs with collector current impact elimination 2016 ,		4
72	Junction Temperature Measurement Based on Electroluminescence Effect in Body Diode of SiC Power MOSFET 2019 ,		4
71	Comparing the performance of different control techniques for DC-DC boost converter with variable solar PV generation in DC microgrid 2014 ,		4
70	Performance analysis of a ZVS bidirectional DC-DC converter with reduced voltage stress on high voltage side 2013 ,		4
69	Uneven temperature effect evaluation in high-power IGBT inverter legs and relative test platform design. <i>Microelectronics Reliability</i> , 2017 , 76-77, 123-130	1.2	4
68	Turn-off performance optimization of press-pack IGBT with advanced active gate driver technique 2017 ,		4
67	Elimination of bus voltage impact on temperature sensitive electrical parameter during turn-on transition for junction temperature estimation of high-power IGBT modules 2017 ,		4
66	Application of bi-directional Z-Source in ultracapacitor-battery hybrid energy storage system for EV 2015 ,		4
65	A novel single-phase transformerless grid-connected inverter 2011 ,		4
64	Performance analysis of isolated ZVT interleaved converter with winding-cross-coupled inductors and switched-capacitors 2010 ,		4
63	Active clamp boost converter with switched capacitor and coupled inductor 2010 ,		4
62	Active Power Filter Based on Four-leg Hybrid-Clamped Technique 2007 ,		4
61	A Family of Interleaved DC/DC Convert Deduced from a Basic Cell with Winding-Coupled Inductors for High Step-Up/Step-Down Conversions 2007 ,		4
60	A 12-Level Series-Capacitor 48-1V DC-DC Converter With On-Chip Switch and GaN Hybrid Power Conversion. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 1-1	5.5	4

59	Islanding Detection With Positive Feedback of Selected Frequency for DC Microgrid Systems. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 11800-11817	7.2	4
58	Online Junction Temperature and Current Simultaneous Extraction for SiC MOSFETs With Electroluminescence Effect. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 21-25	7.2	4
57	A SiC and Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
56	Non-isolated stacked bidirectional soft-switching DC-DC converter with PWM plus phase-shift control scheme. <i>Journal of Modern Power Systems and Clean Energy</i> , 2017 , 5, 631-641	4	3
55	Elimination of collector current impact in TSEP-based junction temperature extraction method for high-power IGBT modules. <i>Chinese Journal of Electrical Engineering</i> , 2016 , 2, 85-90	4	3
54	A Statistical Submodule Open-circuit Failure Diagnosis Method for MMCs Enabling Failure Detection, Localization and Classification 2019 ,		3
53	Implementation of simple moving voltage average technique with direct control incremental conductance method to optimize the efficiency of DC microgrid 2015 ,		3
52	P-i-N diode chip temperature extraction method by investigation into maximum recovery current rate di/dt 2014 ,		3
51	Performance comparison of Phase-shift (PS) and PWM plus Phase-shift (PPS) control schemes for bidirectional DC-DC converters 2012 ,		3
50	A novel AC-AC series voltage compensator without large energy storage elements and using partial power conversion 2011 ,		3
49	Control Optimization of Modular Multilevel Resonant DC Converter for Wide-Input-Range MVDC to LVDC Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
48	Module Multilevel-Clamped Compositied Multilevel Converter (M-MC2) with Dual T-Type Modules and One Diode Module. <i>Journal of Power Electronics</i> , 2014 , 14, 1189-1196	0.9	3
47	Time-Multiplexed Self-Powered Wireless Current Sensor for Power Transmission Lines. <i>Energies</i> , 2021 , 14, 1561	3.1	3
46	Inherent SM Voltage Balance for Multilevel Circulant Modulation in Modular Multilevel DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
45	Thermal Analysis of Modular Multilevel Converters Under Subsynchronous Oscillation 2018 ,		3
44	Space Vector Modulation for SiC & Si Hybrid Active Neutral Point Clamped Converter 2018 ,		3
43	Online Aging Parameter Extraction with Induced Voltage v_{e} between Kelvin and Power Emitter in Turn-off Progress for IGBT Modules 2018 ,		3
42	Layout of Series-connected SiC MOSFET Devices for Medium Voltage Applications 2018 ,		3

41	An Extremely High Power Density Asymmetrical Back-to-Back Converter for Aerospace Motor Drive Applications. <i>Energies</i> , 2020 , 13, 1292	3.1	2
40	. <i>IEEE Open Journal of Power Electronics</i> , 2020 , 1, 180-189	2.5	2
39	Common-mode voltage analysis and suppression in five-level modular composited converter 2017 ,		2
38	Effects of uneven temperature of IGBT and diode on switching characteristics of bridge legs in MW-level power converters 2016 ,		2
37	Estimation method for turn-off collector voltage of IGBTs using emitter-auxiliary inductor 2016 ,		2
36	Average-value model of modular multilevel converters considering capacitor voltage 2016 ,		2
35	Insolated high frequency link AC-AC converter based on sinusoidal wave modulation technology for voltage compensation 2013 ,		2
34	DC symmetrical component method for analysis and control of bipolar LVDC grid 2015 ,		2
33	Analysis of pre-compensator for disturbance signal elimination in single-phase inverters with virtual vector control 2015 ,		2
32	Performance analysis of an interleaved high step-up converter with voltage multiplier cell 2010 ,		2
31	A grid-connected PV power system with high step-up ZVT interleaved boost converter 2008 ,		2
30	Performance Analysis of an Isolated ZVT Boost Converter with Primary-Parallel-Secondary-Series (PPSS) Structure 2007 ,		2
29	A Coupled Inductor Based Circuit for Voltage Balancing among Series Connected SiC MOSFETs 2020 ,		2
28	Effects analysis of excitation circuit on power control for VSG: a design-oriented study. <i>IET Renewable Power Generation</i> , 2020 , 14, 803-810	2.9	2
27	An Impedance Adapting Compensation Scheme for High Current NMOS LDO Design. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	2
26	Adaptive DC voltage component modulation of sub-modules in modular multilevel converters for efficiency optimisation during wide AC voltage range. <i>IET Power Electronics</i> , 2018 , 11, 1399-1406	2.2	2
25	Improved Switching Ripple Modulation Strategy for Simultaneous Power Conversion and Data Communication in DC-DC Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
24	Buck-Boost Type High Voltage DC Auxiliary Power Supply for Medium Voltage DC System 2021 ,		2

23	Virtual Negative Cable Resistance for Power Sharing Accuracy Enhancement in DC Microgrids 2019 ,		1
22	Hybrid 3.3kV/450A half-bridge IGBT power module with SiC Schottky barrier diodes. <i>IET Power Electronics</i> , 2020 , 13, 405-412	2.2	1
21	Engineering design for structure and bus bar of 1.2MVA hybrid clamped five-level converter module 2014 ,		1
20	Comprehensive analysis on carrier-based PWM modulations for advanced composited clamping five-level converter 2014 ,		1
19	Estimation and control of battery charging current for the asymmetrical Z-source topology in the HESS application 2015 ,		1
18	Duty cycle-based start-up control for a ZVS bidirectional DC-DC converter 2014 ,		1
17	Performance analysis of a single stage single phase high step-up soft switching boost converter 2011 ,		1
16	General law of non-isolated interleaved high step-up topologies with winding-cross-coupled inductors deduced from isolation counterparts 2010 ,		1
15	Modular Heatsink Design for High Power Converters Considering Cooling Wind Speed Optimization 2020 ,		1
14	An SiC & Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage UPS Application 2020 ,		1
13	A Hybrid Three-Phase Seven-Level CHB Inverter with a Novel Modulation Scheme 2020 ,		1
12	Design and Verification of a High Ratio Medium Frequency Transformer for Subsea Power Conversion 2021 ,		1
11	Modelling of Output Admittance Coupling Between Shunt Active Power Filters and Non-linear Loads 2019 ,		1
10	Precompensator for Disturbance Signal Elimination in Single-Phase Inverters With Virtual Vector Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 184-195	5.6	1
9	Graph Model-Based Generative Layout Optimization for Heterogeneous SiC Multi-Chip Power Modules with Reduced and Balanced Parasitic Inductance. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1
8	An Embedded Communication Method for In-Home Energy Routers With Power/Signal Dual Modulation. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	1
7	Analytical Model and Design of Voltage Balancing Parameters of Series-Connected SiC MOSFETs Considering Non-Flat Miller Plateau of Gate Voltage. <i>Energies</i> , 2022 , 15, 1722	3.1	1
6	High Voltage Winding Internal Electric Field Shielding Structure for Medium Voltage High Frequency Transformers. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	1

5	Thermal Mitigation and Optimization via Multi-Tier Bond Wire Layout for IGBT Modules Considering Multicellular Electro-Thermal Effect. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	o
4	A Cost-effective and DC-fault Tolerant Alternate Arm Converter with Wide Range Voltage Adaptability. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	o
3	Elastic Half-Space Theory-Based Distributed-Press-Pack Packaging Technology for Power Module With Balanced Thermal Stress. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	
2	Magnetic Coupling-Based Battery Impedance Measurement Method. <i>Energies</i> , 2021 , 14, 7490	3.1	
1	Review of Methodologies for Evaluating Short-Circuit Robustness and Reliability of SiC Power MOSFETs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	