Haoze Luo

List of Publications by Year in Descending Order

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	Thermal Mitigation and Optimization via Multi-Tier Bond Wire Layout for IGBT Modules Considering Multicellular Electro-Thermal Effect. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	0
201	Online Junction Temperature and Current Simultaneous Extraction for SiC MOSFETs With Electroluminescence Effect. *IEEE Transactions on Power Electronics*, **2022**, 37, 21-25	7.2	4
200	Graph Model-Based Generative Layout Optimization for Heterogeneous SiC Multi-Chip Power Modules with Reduced and Balanced Parasitic Inductance. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	1
199	Improved Switching Ripple Modulation Strategy for Simultaneous Power Conversion and Data Communication in DC-DC Converters. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	2
198	An Embedded Communication Method for In-Home Energy Routers With Power/Signal Dual Modulation. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2022**, 1-1	5.6	1
197	Analytical Model and Design of Voltage Balancing Parameters of Series-Connected SiC MOSFETs Considering Non-Flat Miller Plateau of Gate Voltage. *Energies*, **2022**, 15, 1722	3.1	1
196	High Voltage Winding Internal Electric Field Shielding Structure for Medium Voltage High Frequency Transformers. *IEEE Transactions on Power Electronics*, **2022**, 1-1	7.2	1
195	Magnetic Coupling-Based Battery Impedance Measurement Method. *Energies*, **2021**, 14, 7490	3.1	
194	Review of Methodologies for Evaluating Short-Circuit Robustness and Reliability of SiC Power MOSFETs. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	
193	Control Optimization of Modular Multilevel Resonant DC Converter for Wide-Input-Range MVDC to LVDC Applications. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	3
192	A Cost-effective and DC-fault Tolerant Alternate Arm Converter with Wide Range Voltage Adaptability. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2021**, 1-1	5.6	0
191	Time-Multiplexed Self-Powered Wireless Current Sensor for Power Transmission Lines. *Energies*, **2021**, 14, 1561	3.1	3
190	Design and Verification of a High Ratio Medium Frequency Transformer for Subsea Power Conversion **2021**,		1
189	General Derivation Law With Torque-Free Achieving of Integral On-Board Charger on Compact Powertrains. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 1791-1802	8.9	7
188	Arm Phase-Shift Conducting Modulation for Alternate Arm Multilevel Converter With Half-Bridge Submodules. *IEEE Transactions on Power Electronics*, **2021**, 36, 5223-5235	7.2	9
187	Medium Voltage Soft-Switching DC/DC Converter With Series-Connected SiC MOSFETs. *IEEE Transactions on Power Electronics*, **2021**, 36, 1451-1462	7.2	14
186	A 12-Level Series-Capacitor 48-1V DC-DC Converter With On-Chip Switch and GaN Hybrid Power Conversion. *IEEE Journal of Solid-State Circuits*, **2021**, 1-1	5.5	4

185	Inherent SM Voltage Balance for Multilevel Circulant Modulation in Modular Multilevel DC–DC Converters. *IEEE Transactions on Power Electronics*, **2021**, 1-1	7.2	3
184	An Impedance Adapting Compensation Scheme for High Current NMOS LDO Design. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1	3.5	2
183	A Modified RC Snubber With Coupled Inductor for Active Voltage Balancing of Series-Connected SiC MOSFETs. *IEEE Transactions on Power Electronics*, **2021**, 36, 11208-11220	7.2	5
182	Islanding Detection With Positive Feedback of Selected Frequency for DC Microgrid Systems. *IEEE Transactions on Power Electronics*, **2021**, 36, 11800-11817	7.2	4
181	A SiC and Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage Applications. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	4
180	Buck-Boost Type High Voltage DC Auxiliary Power Supply for Medium Voltage DC System **2021**,		2
179	Nature of power electronics and integration of power conversion with communication for talkative power. *Nature Communications*, **2020**, 11, 2479	17.4	28
178	DC Voltage Ripple Optimization of a Single-Stage Solid-State Transformer Based on the Modular Multilevel Matrix Converter. *IEEE Transactions on Power Electronics*, **2020**, 35, 12801-12815	7.2	13
177	Non-Contact Degradation Evaluation for IGBT Modules Using Eddy Current Pulsed Thermography Approach. *Energies*, **2020**, 13, 2613	3.1	5
176	An Extremely High Power Density Asymmetrical Back-to-Back Converter for Aerospace Motor Drive Applications. *Energies*, **2020**, 13, 1292	3.1	2
175	. *IEEE Open Journal of Power Electronics*, **2020**, 1, 180-189	2.5	2
174	Recent advances and trend of HEV/EV-oriented power semiconductors an overview. *IET Power Electronics*, **2020**, 13, 394-404	2.2	12
173	Elastic Half-Space Theory-Based Distributed-Press-Pack Packaging Technology for Power Module With Balanced Thermal Stress. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 1-1	5.6	
172	Hybrid 3.3 kV/450 A half-bridge IGBT power module with SiC Schottky barrier diodes. *IET Power Electronics*, **2020**, 13, 405-412	2.2	1
171	Modular Heatsink Design for High Power Converters Considering Cooling Wind Speed Optimization **2020**,		1
170	A Modular Multilevel Resonant DC–DC Converter. *IEEE Transactions on Power Electronics*, **2020**, 35, 7921-7932	7.2	21
169	An SiC & Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage UPS Application **2020**,		1
168	A Coupled Inductor Based Circuit for Voltage Balancing among Series Connected SiC MOSFETs **2020**,		2

167	A Hybrid Three-Phase Seven-Level CHB Inverter with a Novel Modulation Scheme **2020**,		1
166	Effects analysis of excitation circuit on power control for VSG: a design-oriented study. *IET Renewable Power Generation*, **2020**, 14, 803-810	2.9	2
165	IPMSMs Sensorless MTPA Control Based on Virtual q-Axis Inductance by Using Virtual High-Frequency Signal Injection. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 136-146	8.9	24
164	Role of Threshold Voltage Shift in Highly Accelerated Power Cycling Tests for SiC MOSFET Modules. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 1657-1667	5.6	23
163	Active Thermal Control for Hybrid Modular Multilevel Converter Under Overmodulation Operation. *IEEE Transactions on Power Electronics*, **2020**, 35, 4242-4255	7.2	13
162	High Off-State Impedance Gate Driver of SiC MOSFETs for Crosstalk Voltage Elimination Considering Common-Source Inductance. *IEEE Transactions on Power Electronics*, **2020**, 35, 2999-3011	7.2	30
161	Study of Current Density Influence on Bond Wire Degradation Rate in SiC MOSFET Modules. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2020**, 8, 1622-1632	5.6	12
160	Motion-Induction Compensation to Mitigate Sub-Synchronous Oscillation in Wind Farms. *IEEE Transactions on Sustainable Energy*, **2020**, 11, 1247-1256	8.2	12
159	Space Vector Modulation for SiC and Si Hybrid ANPC Converter in Medium-Voltage High-Speed Drive System. *IEEE Transactions on Power Electronics*, **2020**, 35, 3390-3401	7.2	11
158	Compact Sandwiched Press-Pack SiC Power Module With Low Stray Inductance and Balanced Thermal Stress. *IEEE Transactions on Power Electronics*, **2020**, 35, 2237-2241	7.2	11
157	Thermal Optimization of Modular Multilevel Converters With Surplus Submodule Active-Bypass Plus Neutral-Point-Shift Scheme Under Unbalanced Grid Conditions. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 1777-1788	5.6	5
156	Virtual Negative Cable Resistance for Power Sharing Accuracy Enhancement in DC Microgrids **2019**,		1
155	Design of Active SiC MOSFET Gate Driver for Crosstalk Suppression Considering Impedance Coordination between Gate Loop and Power Loop **2019**,		9
154	A 3D Thermal Network Model for Monitoring Imbalanced Thermal Distribution of Press-Pack IGBT Modules in MMC-HVDC Applications. *Energies*, **2019**, 12, 1319	3.1	10
153	Implications of Ageing Through Power Cycling on the Short-Circuit Robustness of 1.2-kV SiC mosfets. *IEEE Transactions on Power Electronics*, **2019**, 34, 11182-11190	7.2	8
152	Detection and Localization of Submodule Open-Circuit Failures for Modular Multilevel Converters With Single Ring Theorem. *IEEE Transactions on Power Electronics*, **2019**, 34, 3729-3739	7.2	32
151	Polynomial Curve Slope Compensation for Peak-Current-Mode-Controlled Power Converters. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 470-481	8.9	6
150	A Statistical Submodule Open-circuit Failure Diagnosis Method for MMCs Enabling Failure Detection, Localization and Classification **2019**,		3

149	Junction Temperature Measurement Based on Electroluminescence Effect in Body Diode of SiC Power MOSFET **2019**,		4
148	EM-Electrothermal Analysis of Semiconductor Power Modules. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2019**, 9, 1495-1503	1.7	8
147	Common-Mode Current Suppression of Transformerless Nested Five-Level Converter With Zero Common-Mode Vectors. *IEEE Transactions on Power Electronics*, **2019**, 34, 4249-4258	7.2	9
146	Modelling of Output Admittance Coupling Between Shunt Active Power Filters and Non-linear Loads **2019**,		1
145	AR-Aided Smart Sensing for In-Line Condition Monitoring of IGBT Wafer. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8197-8204	8.9	6
144	Capacitor Voltage Balance Control of Hybrid Modular Multilevel Converters With Second- Order Circulating Current Injection. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 157-167	5.6	13
143	Precompensator for Disturbance Signal Elimination in Single-Phase Inverters With Virtual Vector Control. *IEEE Journal of Emerging and Selected Topics in Power Electronics*, **2019**, 7, 184-195	5.6	1
142	Online Junction Temperature Extraction of SiC Power mosfets With Temperature Sensitive Optic Parameter (TSOP) Approach. *IEEE Transactions on Power Electronics*, **2019**, 34, 10143-10152	7.2	18
141	An SiC MOSFET and Si Diode Hybrid Three-Phase High-Power Three-Level Rectifier. *IEEE Transactions on Power Electronics*, **2019**, 34, 6076-6087	7.2	14
140	A Coupled-Inductor-Based LCC Resonant Converter With the Primary-Parallel Secondary-Series Configuration to Achieve Output-Voltage Sharing for HV Generator Applications. *IEEE Transactions on Power Electronics*, **2019**, 34, 6108-6122	7.2	16
139	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	8.9	19
138	Imbalance Mechanism and Balanced Control of Capacitor Voltage for a Hybrid Modular Multilevel Converter. *IEEE Transactions on Power Electronics*, **2018**, 33, 5686-5696	7.2	43
137	Unified Equivalent Steady-State Circuit Model and Comprehensive Design of the LCC Resonant Converter for HV Generation Architectures. *IEEE Transactions on Power Electronics*, **2018**, 33, 7531-7544	7.2	12
136	An Extremely High Efficient Three-Level Active Neutral-Point-Clamped Converter Comprising SiC and Si Hybrid Power Stages. *IEEE Transactions on Power Electronics*, **2018**, 33, 8341-8352	7.2	92
135	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	5.6	12
134	Investigation and Classification of Short-Circuit Failure Modes Based on Three-Dimensional Safe Operating Area for High-Power IGBT Modules. *IEEE Transactions on Power Electronics*, **2018**, 33, 1075-1086	7.2	30
133	Decoupled Current Control With Synchronous Frequency Damping for MMC Considering Sub-module Capacitor Voltage Ripple. *IEEE Transactions on Power Delivery*, **2018**, 33, 419-428	4.3	15
132	Enabling Junction Temperature Estimation via Collector-Side Thermo-Sensitive Electrical Parameters Through Emitter Stray Inductance in High-Power IGBT Modules. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 4724-4738	8.9	30

131	Thermal Analysis of Modular Multilevel Converters Under Subsynchronous Oscillation **2018**,		3
130	Space Vector Modulation for SiC & Si Hybrid Active Neutral Point Clamped Converter **2018**,		3
129	Online Aging Parameter Extraction with Induced Voltage $v_{text{eE}}$ between Kelvin and Power Emitter in Turn-off Progress for IGBT Modules **2018**,		3
128	Layout of Series-connected SiC MOSFET Devices for Medium Voltage Applications **2018**,		3
127	On-line solder layer degradation measurement for SiC-MOSFET modules under accelerated power cycling condition. *Microelectronics Reliability*, **2018**, 88-90, 563-567	1.2	14
126	Adaptive DC voltage component modulation of sub-modules in modular multilevel converters for efficiency optimisation during wide AC voltage range. *IET Power Electronics*, **2018**, 11, 1399-1406	2.2	2
125	Average-Value Model of Modular Multilevel Converters Considering Capacitor Voltage Ripple. *IEEE Transactions on Power Delivery*, **2017**, 32, 723-732	4.3	48
124	Online High-Power p-i-n Diode Junction Temperature Extraction With Reverse Recovery Fall Storage Charge. *IEEE Transactions on Power Electronics*, **2017**, 32, 2558-2567	7.2	15
123	Improved Surface Modification of Polymer Films by Energy-Compressed Dielectric Barrier Discharge With Discharge-Time-Regulated Power Source. *IEEE Transactions on Plasma Science*, **2017** , 45, 60-67	1.3	5
122	Non-isolated stacked bidirectional soft-switching DC-DC converter with PWM plus phase-shift control scheme. *Journal of Modern Power Systems and Clean Energy*, **2017**, 5, 631-641	4	3
121	A current sensorless IGBT junction temperature extraction method via parasitic parameters between power collector and auxiliary collector **2017**,		4
120	Dynamic junction temperature estimation via built-in negative thermal coefficient (NTC) thermistor in high power IGBT modules **2017**,		10
119	A Feedback Passivation Design for DC Microgrid and Its DC/DC Converters. *Energies*, **2017**, 10, 14	3.1	13
118	Common-mode voltage analysis and suppression in five-level modular composited converter **2017**,		2
117	Separation test method for investigation of current density effects on bond wires of SiC power MOSFET modules **2017**,		10
116	Aging precursors and degradation effects of SiC-MOSFET modules under highly accelerated power cycling conditions **2017**,		20
115	Uneven temperature effect evaluation in high-power IGBT inverter legs and relative test platform design. *Microelectronics Reliability*, **2017**, 76-77, 123-130	1.2	4
114	Die degradation effect on aging rate in accelerated cycling tests of SiC power MOSFET modules. *Microelectronics Reliability*, **2017**, 76-77, 415-419	1.2	14

113	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. *IEEE Transactions on Power Electronics*, **2017**, 32, 6394-6404	7.2	26
112	. *IEEE Transactions on Industry Applications*, **2017**, 53, 2880-2887	4.3	56
111	Turn-off performance optimization of press-pack IGBT with advanced active gate driver technique **2017**,		4
110	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
109	Overview of Current Microgrid Policies, Incentives and Barriers in the European Union, United States and China. *Sustainability*, **2017**, 9, 1146	3.6	69
108	Simultaneous On-State Voltage and Bond-Wire Resistance Monitoring of Silicon Carbide MOSFETs. *Energies*, **2017**, 10, 384	3.1	20
107	Analysis and Control of Bipolar LVDC Grid With DC Symmetrical Component Method. *IEEE Transactions on Power Systems*, **2016**, 31, 685-694	7	43
106	Effects of uneven temperature of IGBT and diode on switching characteristics of bridge legs in MW-level power converters **2016**,		2
105	Estimation method for turn-off collector voltage of IGBTs using emitter-auxiliary inductor **2016**,		2
104	Elimination of collector current impact in TSEP-based junction temperature extraction method for high-power IGBT modules. *Chinese Journal of Electrical Engineering*, **2016**, 2, 85-90	4	3
103	IGBT junction temperature measurement via combined TSEPs with collector current impact elimination **2016**,		4
102	A thermo-sensitive electrical parameter with maximum dIC/dt during turn-off for high power Trench/Field-Stop IGBT modules **2016**,		7
101	Average-value model of modular multilevel converters considering capacitor voltage **2016**,		2
100	Flying-Capacitor-Based Hybrid LLC Converters With Input Voltage Autobalance Ability for High Voltage Applications. *IEEE Transactions on Power Electronics*, **2016**, 31, 1908-1920	7.2	23
99	Energy Compression of Dielectric Barrier Discharge With Third Harmonic Circulating Current in Current-Fed Parallel-Series Resonant Converter. *IEEE Transactions on Power Electronics*, **2016**, 1-1	7.2	6
98	Improved Nearest-Level Modulation for a Modular Multilevel Converter With a Lower Submodule Number. *IEEE Transactions on Power Electronics*, **2016**, 31, 5369-5377	7.2	68
97	Modern IGBT gate driving methods for enhancing reliability of high-power converters An overview. *Microelectronics Reliability*, **2016**, 58, 141-150	1.2	15
96	Central-Tapped Node Linked Modular Fault-Tolerance Topology for SRM Applications. *IEEE Transactions on Power Electronics*, **2016**, 31, 1541-1554	7.2	30

95	Flexible Fault-Tolerant Topology for Switched Reluctance Motor Drives. *IEEE Transactions on Power Electronics*, **2016**, 31, 4654-4668	7.2	52
94	Common-mode voltage injection-based nearest level modulation with loss reduction for modular multilevel converters. *IET Renewable Power Generation*, **2016**, 10, 798-806	2.9	14
93	High-power bidirectional resonant DCDC converter with equivalent switching frequency doubler. *IET Renewable Power Generation*, **2016**, 10, 834-842	2.9	5
92	Active gate driving method for reliability improvement of IGBTs via junction temperature swing reduction **2016**,		18
91	Highly efficient and reliable inverter concept-based transformerless photovoltaic inverters with tri-direction clamping cell for leakage current elimination. *IET Power Electronics*, **2016**, 9, 1675-1683	2.2	16
90	Self-disciplined stabilization of DC microgrids by passivity-based control **2015**,		4
89	Hybrid-bridge transformerless photovoltaic grid-connected inverter. *IET Power Electronics*, **2015**, 8, 439-446	2.2	26
88	Online High-Power P-i-N Diode Chip Temperature Extraction and Prediction Method With Maximum Recovery Current di/dt. *IEEE Transactions on Power Electronics*, **2015**, 30, 2395-2404	7.2	28
87	Junction Temperature Extraction Approach With Turn-Off Delay Time for High-Voltage High-Power IGBT Modules. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	82
86	Asymmetrical Duty Cycle-Controlled LLC Resonant Converter With Equivalent Switching Frequency Doubler. *IEEE Transactions on Power Electronics*, **2015**, 1-1	7.2	30
85	Synchronous frequency resonance of virtual synchronous generators and damping control **2015**,		15
84	Modular Multilevel DC/DC Converters With Phase-Shift Control Scheme for High-Voltage DC-Based Systems. *IEEE Transactions on Power Electronics*, **2015**, 30, 99-107	7.2	37
83	Frequency-Coordinating Virtual Impedance for Autonomous Power Management of DC Microgrid. *IEEE Transactions on Power Electronics*, **2015**, 30, 2328-2337	7.2	146
82	Simple Moving Voltage Average Incremental Conductance MPPT Technique with Direct Control Method under Nonuniform Solar Irradiance Conditions. *International Journal of Photoenergy*, **2015**, 2015, 1-12	2.1	7
81	Analysis and compensation of dead-time effect considering parasitic capacitance and ripple current **2015**,		9
80	Application of bi-directional Z-Source in ultracapacitor-battery hybrid energy storage system for EV **2015**,		4
79	Theoretical Evaluation of Stability Improvement Brought by Resonant Current Loop for Paralleled LLC Converters. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4170-4180	8.9	26
78	DC symmetrical component method for analysis and control of bipolar LVDC grid **2015**,		2

77	Analysis of pre-compensator for disturbance signal elimination in single-phase inverters with virtual vector control **2015**,		2
76	Enhanced HERIC based transformerless inverter with hybrid clamping cell for leakage current elimination **2015**,		6
75	Estimation and control of battery charging current for the asymmetrical Z-source topology in the HESS application **2015**,		1
74	Implementation of simple moving voltage average technique with direct control incremental conductance method to optimize the efficiency of DC microgrid **2015**,		3
73	Decoupling-Controlled Triport Composited DC/DC Converter for Multiple Energy Interface. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4504-4513	8.9	48
72	Passivity-Based Control of DC Microgrid for Self-Disciplined Stabilization. *IEEE Transactions on Power Systems*, **2015**, 30, 2623-2632	7	65
71	Topology Review and Derivation Methodology of Single-Phase Transformerless Photovoltaic Inverters for Leakage Current Suppression. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4537-4551	8.9	329
70	Analysis, design and implementation of isolated bidirectional converter with winding-cross-coupled inductors for high step-up and high step-down conversion system. *IET Power Electronics*, **2014**, 7, 67-77	2.2	29
69	Virtual Quadrature Source-Based Sinusoidal Modulation Applied to High-Frequency Link Converter Enabling Arbitrary Direct AC-AC Power Conversion. *IEEE Transactions on Power Electronics*, **2014**, 29, 4195-4208	7.2	11
68	Comparing the performance of different control techniques for DC-DC boost converter with variable solar PV generation in DC microgrid **2014**,		4
67	High Step-Up Interleaved Converter With Built-In Transformer Voltage Multiplier Cells for Sustainable Energy Applications. *IEEE Transactions on Power Electronics*, **2014**, 29, 2829-2836	7.2	109
66	Engineering design for structure and bus bar of 1.2MVA hybrid clamped five-level converter module **2014**,		1
65	Three-phase interleaved high-step-up converter with coupled-inductor-based voltage quadrupler. *IET Power Electronics*, **2014**, 7, 1841-1849	2.2	37
64	Three-level frequency-doubling LLC resonant converter with high step-down ratio for high input voltage applications **2014**,		7
63	Mode-Adaptive Decentralized Control for Renewable DC Microgrid With Enhanced Reliability and Flexibility. *IEEE Transactions on Power Electronics*, **2014**, 29, 5072-5080	7.2	255
62	Comprehensive analysis on carrier-based PWM modulations for advanced composited clamping five-level converter **2014**,		1
61	A high-efficiency single-phase inverter for transformerless photovoltaic grid-connection **2014**,		7
60	Improved Virtual Vector Control of Single-Phase Inverter Based on Unified Model. *IEEE Transactions on Energy Conversion*, **2014**, 29, 611-618	5.4	29

59	P-i-N diode chip temperature extraction method by investigation into maximum recovery current rate di/dt **2014**,		3
58	Online junction temperature extraction with turn-off delay time for high power IGBTs **2014**,		15
57	Duty cycle-based start-up control for a ZVS bidirectional DC-DC converter **2014**,		1
56	Single-Phase High Step-up Converter With Improved Multiplier Cell Suitable for Half-Bridge-Based PV Inverter System. *IEEE Transactions on Power Electronics*, **2014**, 29, 2807-2816	7.2	39
55	Module Multilevel-Clamped Composited Multilevel Converter (M-MC2) with Dual T-Type Modules and One Diode Module. *Journal of Power Electronics*, **2014**, 14, 1189-1196	0.9	3
54	Transformerless Inverter With Virtual DC Bus Concept for Cost-Effective Grid-Connected PV Power Systems. *IEEE Transactions on Power Electronics*, **2013**, 28, 793-805	7.2	185
53	Series Asymmetrical Half-Bridge Converters With Voltage Autobalance for High Input-Voltage Applications. *IEEE Transactions on Power Electronics*, **2013**, 28, 3665-3674	7.2	29
52	Performance analysis of coupled inductor based multiple-input DC/DC converter with PWM plus phase-shift (PPS) control strategy **2013**,		7
51	Performance analysis of a ZVS bidirectional DC-DC converter with reduced voltage stress on high voltage side **2013**,		4
50	Insolated high frequency link AC-AC converter based on sinusoidal wave modulation technology for voltage compensation **2013**,		2
49	Performance analysis of composite five-level converter with dual T type and diode modules **2013**,		6
48	Advanced Four-Pair Architecture With Input Current Balance Function for Power Over Ethernet (PoE) System. *IEEE Transactions on Power Electronics*, **2013**, 28, 2343-2355	7.2	10
47	Secondary-Side Phase-Shift-Controlled ZVS DC/DC Converter With Wide Voltage Gain for High Input Voltage Applications. *IEEE Transactions on Power Electronics*, **2013**, 28, 5128-5139	7.2	58
46	Advanced Symmetrical Voltage Quadrupler Rectifiers for High Step-Up and High Output-Voltage Converters. *IEEE Transactions on Power Electronics*, **2013**, 28, 1622-1631	7.2	63
45	Interleaved High Step-Up ZVT Converter With Built-In Transformer Voltage Doubler Cell for Distributed PV Generation System. *IEEE Transactions on Power Electronics*, **2013**, 28, 300-313	7.2	110
44	Partial Power Conversion Device Without Large Electrolytic Capacitors for Power Flow Control and Voltage Compensation. *IEEE Transactions on Power Electronics*, **2012**, 27, 4847-4857	7.2	9
43	Performance comparison of Phase-shift (PS) and PWM plus Phase-shift (PPS) control schemes for bidirectional DC-DC converters **2012**,		3
42	PWM Plus Phase Angle Shift (PPAS) Control Scheme for Combined Multiport DC/DC Converters. *IEEE Transactions on Power Electronics*, **2012**, 27, 1479-1489	7.2	77

41	Improved Transformerless Inverter With Common-Mode Leakage Current Elimination for a Photovoltaic Grid-Connected Power System. *IEEE Transactions on Power Electronics*, **2012**, 27, 752-762	7.2	354
40	Single-Switch High Step-Up Converters With Built-In Transformer Voltage Multiplier Cell. *IEEE Transactions on Power Electronics*, **2012**, 27, 3557-3567	7.2	101
39	Performance analysis of interleaved boost converter with voltage gain extension cell **2012**,		5
38	Single-Phase Improved Active Clamp Coupled-Inductor-Based Converter With Extended Voltage Doubler Cell. *IEEE Transactions on Power Electronics*, **2012**, 27, 2869-2878	7.2	112
37	Three-Level Forward–Flyback Phase-Shift ZVS Converter With Integrated Series-Connected Coupled Inductors. *IEEE Transactions on Power Electronics*, **2012**, 27, 2846-2856	7.2	29
36	High-Step-Up and High-Efficiency Fuel-Cell Power-Generation System With Active-Clamp Flyback–Forward Converter. *IEEE Transactions on Industrial Electronics*, **2012**, 59, 599-610	8.9	95
35	A novel single-phase transformerless grid-connected inverter **2011**,		4
34	Review of Nonisolated High-Step-Up DC/DC Converters in Photovoltaic Grid-Connected Applications. *IEEE Transactions on Industrial Electronics*, **2011**, 58, 1239-1250	8.9	739
33	A transformerless grid connected photovoltaic inverter with switched capacitors **2011**,		8
32	A novel AC-AC series voltage compensator without large energy storage elements and using partial power conversion **2011**,		3
31	Analysis, Design, and Experimentation of an Isolated ZVT Boost Converter With Coupled Inductors. *IEEE Transactions on Power Electronics*, **2011**, 26, 541-550	7.2	79
30	Isolated Winding-Coupled Bidirectional ZVS Converter With PWM Plus Phase-Shift (PPS) Control Strategy. *IEEE Transactions on Power Electronics*, **2011**, 26, 3560-3570	7.2	53
29	Performance analysis of a single stage single phase high step-up soft switching boost converter **2011**,		1
28	A non-isolated high step-up converter with built-in transformer derived from its isolated counterpart **2010**,		9
27	Interleaved Converter With Voltage Multiplier Cell for High Step-Up and High-Efficiency Conversion. *IEEE Transactions on Power Electronics*, **2010**, 25, 2397-2408	7.2	162
26	Design and Analysis of a Grid-Connected Photovoltaic Power System. *IEEE Transactions on Power Electronics*, **2010**, 25, 992-1000	7.2	302
25	Performance analysis of isolated ZVT interleaved converter with winding-cross-coupled inductors and switched-capacitors **2010**,		4
24	A smart and simple PV charger for portable applications **2010**,		15

23	An active clamp ZVT converter with input-parallel and output-series configuration **2010**,		8
22	Active clamp boost converter with switched capacitor and coupled inductor **2010**,		4
21	Phase-shifted full bridge converter featuring ZVS over the full load range **2010**,		9
20	A novel elevator load torque identification method based on friction mode **2010**,		5
19	Performance analysis of an interleaved high step-up converter with voltage multiplier cell **2010**,		2
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