

# Xiangning He

## List of Publications by Year in Descending Order

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

344  
papers

9,700  
citations

51  
h-index

89  
g-index

430  
ext. papers

12,531  
ext. citations

5.8  
avg. IF

6.68  
L-index

#	Paper	IF	Citations
344	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> , <b>2022</b> , 1-1	7.2	0
343	Common Mode Noise Analysis for Inductive Power Transfer System Based on Distributed Stray Capacitance Model. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 1132-1145	7.2	0
342	Online Junction Temperature and Current Simultaneous Extraction for SiC MOSFETs With Electroluminescence Effect. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 21-25	7.2	4
341	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> , <b>2022</b> , 1-1	7.2	1
340	Improved Switching Ripple Modulation Strategy for Simultaneous Power Conversion and Data Communication in DC-DC Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	2
339	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> , <b>2022</b> , 1-1	5.6	1
338	Analytical Model and Design of Voltage Balancing Parameters of Series-Connected SiC MOSFETs Considering Non-Flat Miller Plateau of Gate Voltage. <i>Energies</i> , <b>2022</b> , 15, 1722	3.1	1
337	Metal Object and Vehicle Position Detections Integrated with Near-Field Communication for Wireless EV Charging. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	0
336	High Voltage Winding Internal Electric Field Shielding Structure for Medium Voltage High Frequency Transformers. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	1
335	Magnetic Coupling-Based Battery Impedance Measurement Method. <i>Energies</i> , <b>2021</b> , 14, 7490	3.1	
334	Control Optimization of Modular Multilevel Resonant DC Converter for Wide-Input-Range MVDC to LVDC Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	3
333	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> , <b>2021</b> , 1-1	5.6	0
332	Time-Multiplexed Self-Powered Wireless Current Sensor for Power Transmission Lines. <i>Energies</i> , <b>2021</b> , 14, 1561	3.1	3
331	Design and Verification of a High Ratio Medium Frequency Transformer for Subsea Power Conversion <b>2021</b> ,		1
330	A Frequency-Based Stray Parameter Extraction Method Based on Oscillation in SiC MOSFET Dynamics. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 6153-6157	7.2	6
329	Resonant Modular Multilevel DCDC Converters for Both High and Low Step-Ratio Connections in MVDC Distribution Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 7625-7640	7.2	4
328	Impedance Matching Method for 6.78 MHz Class-E2-Based WPT System. <i>Energies</i> , <b>2021</b> , 14, 4289	3.1	0

327	Arm Phase-Shift Conducting Modulation for Alternate Arm Multilevel Converter With Half-Bridge Submodules. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 5223-5235	7.2	9
326	Medium Voltage Soft-Switching DC/DC Converter With Series-Connected SiC MOSFETs. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 1451-1462	7.2	14
325	A Power Flow Tracing Method Based on Power Electronic Signaling for P2P Electricity Trading in DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	4
324	Embedding OFDM-Based Carrier Communication into Power Control Loop of Converter in DC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	5
323	Inherent SM Voltage Balance for Multilevel Circulant Modulation in Modular Multilevel DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	3
322	Modular Four-Channel 50 kW WPT System With Decoupled Coil Design for Fast EV Charging. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	7
321	Design and Evaluation of Microgrids Based on Renewable Energy Technologies with a Perspective of Sustainable Development <b>2021</b> , 385-415		
320	DC-Link Busbar Network Design and Evaluation Method for the Large-Capacity Power Electronic Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 4137-4145	5.6	4
319	Coded PWM Based Switching Ripple Communication Applied in Visible Light Communication. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 9659-9667	7.2	7
318	An Active Voltage Balancing Method for Series Connection of SiC MOSFETs With Coupling Inductor. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 9731-9736	7.2	1
317	A Modified RC Snubber With Coupled Inductor for Active Voltage Balancing of Series-Connected SiC MOSFETs. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 11208-11220	7.2	5
316	Islanding Detection With Positive Feedback of Selected Frequency for DC Microgrid Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 11800-11817	7.2	4
315	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 11696-11706	8.9	5
314	A SiC and Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	4
313	Graph Theory Based Programmable Topology Derivation of Multi-Port DC-DC Converters with Reduced Switches. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	8
312	Buck-Boost Type High Voltage DC Auxiliary Power Supply for Medium Voltage DC System <b>2021</b> ,		2
311	Nature of power electronics and integration of power conversion with communication for talkative power. <i>Nature Communications</i> , <b>2020</b> , 11, 2479	17.4	28
310	Analytical Estimation Method of Winding Parasitic Capacitance for High-Frequency High-Voltage Application. <i>IEEE Access</i> , <b>2020</b> , 8, 73746-73755	3.5	2

309	An Extremely High Power Density Asymmetrical Back-to-Back Converter for Aerospace Motor Drive Applications. <i>Energies</i> , <b>2020</b> , 13, 1292	3.1	2
308	Magnetic Positioning Technique Integrated with Near-Field Communication for Wireless EV Charging. <i>Energies</i> , <b>2020</b> , 13, 1081	3.1	2
307	. <i>IEEE Open Journal of Power Electronics</i> , <b>2020</b> , 1, 180-189	2.5	2
306	Integration of Improved Flux Linkage Observer and I <sup>2</sup> R Starting Method for Wide-Speed-Range Sensorless SPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 8374-8383	7.2	14
305	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> , <b>2020</b> , 1-1	5.6	
304	Modular Heatsink Design for High Power Converters Considering Cooling Wind Speed Optimization <b>2020</b> ,		1
303	Data-Enabled Estimation and Feedback Control Method Utilizing Online Magnetic Positioning System for Wireless Power Transfer Systems <b>2020</b> ,		1
302	A Frequency-domain Method for Stray Parameters Extraction in Arbitrary Section of Laminated Busbars <b>2020</b> ,		1
301	An Interleaved Three-Phase PWM Single-Stage Resonant Rectifier With High-Frequency Isolation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 6572-6582	8.9	5
300	Online Capacitance Estimation of Submodule Capacitors for Modular Multilevel Converter With Nearest Level Modulation. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 6678-6681	7.2	12
299	A Modular Multilevel Resonant DC/DC Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 7921-7932	7.2	21
298	An SiC & Si Hybrid Five-Level Unidirectional Rectifier for Medium Voltage UPS Application <b>2020</b> ,		1
297	A Coupled Inductor Based Circuit for Voltage Balancing among Series Connected SiC MOSFETs <b>2020</b> ,		2
296	Unit Partition Method for the Resonance Research in the Dc-link Busbar of Back-to-back Converter <b>2020</b> ,		1
295	IPMSMs Sensorless MTPA Control Based on Virtual q-Axis Inductance by Using Virtual High-Frequency Signal Injection. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 136-146	8.9	24
294	Torque Distributed Control Strategy for the Dual Three-Phase PMSM in Hybrid Energy Storage System Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 2544-2552	8.9	7
293	Multiple-Positions-Coupled Sampling Method for PMSM Three-Phase Current Reconstruction With a Single Current Sensor. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 699-708	7.2	17
292	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 1767-1781	5.6	16

291	Active Thermal Control for Hybrid Modular Multilevel Converter Under Overmodulation Operation. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 4242-4255	7.2	13
290	High Off-State Impedance Gate Driver of SiC MOSFETs for Crosstalk Voltage Elimination Considering Common-Source Inductance. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 2999-3011	7.2	30
289	Research on the Dynamic Characteristics and Regulation Method of the Energy Stored Quasi-Z-Source Inverter System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 4590-4599	8.9	7
288	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> , <b>2020</b> , 8, 1622-1632	5.6	12
287	Motion-Induction Compensation to Mitigate Sub-Synchronous Oscillation in Wind Farms. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 1247-1256	8.2	12
286	Space Vector Modulation for SiC and Si Hybrid ANPC Converter in Medium-Voltage High-Speed Drive System. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3390-3401	7.2	11
285	Compact Sandwiched Press-Pack SiC Power Module With Low Stray Inductance and Balanced Thermal Stress. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 2237-2241	7.2	11
284	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> , <b>2019</b> , 7, 1777-1788	5.6	5
283	Strategic Allocation and Energy Management of BESS for the Provision of Ancillary Services in Active Distribution Networks. <i>Energy Procedia</i> , <b>2019</b> , 158, 2972-2978	2.3	2
282	Analysis and Suppression Strategy for the Double-Line Frequency Pulsation in Single-Phase Quasi-Z-Source Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 12567-12576	7.2	9
281	Design of Active SiC MOSFET Gate Driver for Crosstalk Suppression Considering Impedance Coordination between Gate Loop and Power Loop <b>2019</b> ,		9
280	A 3D Thermal Network Model for Monitoring Imbalanced Thermal Distribution of Press-Pack IGBT Modules in MMC-HVDC Applications. <i>Energies</i> , <b>2019</b> , 12, 1319	3.1	10
279	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 833-842	5.6	26
278	Embedding Power Line Communication in Photovoltaic Optimizer by Modulating Data in Power Control Loop. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 3948-3958	8.9	22
277	Detection and Localization of Submodule Open-Circuit Failures for Modular Multilevel Converters With Single Ring Theorem. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 3729-3739	7.2	32
276	Polynomial Curve Slope Compensation for Peak-Current-Mode-Controlled Power Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 470-481	8.9	6
275	Switching State Sequences-Based Modulation Scheme for T-Type 5L-ANPC Converter. <i>IEEE Access</i> , <b>2019</b> , 7, 117627-117638	3.5	1
274	Full-Duplex High-Speed Simultaneous Communication Technology for Wireless EV Charging. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 9369-9373	7.2	20

273	Strategic integration of battery energy storage systems with the provision of distributed ancillary services in active distribution systems. <i>Applied Energy</i> , <b>2019</b> , 253, 113503	10.7	51
272	A Statistical Submodule Open-circuit Failure Diagnosis Method for MMCs Enabling Failure Detection, Localization and Classification <b>2019</b> ,		3
271	Junction Temperature Measurement Based on Electroluminescence Effect in Body Diode of SiC Power MOSFET <b>2019</b> ,		4
270	Improved powered bus communication technique based on PD-TDMT for distributed power system (DPS). <i>IET Power Electronics</i> , <b>2019</b> , 12, 3782-3791	2.2	1
269	Common-Mode Current Suppression of Transformerless Nested Five-Level Converter With Zero Common-Mode Vectors. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4249-4258	7.2	9
268	Modelling of Output Admittance Coupling Between Shunt Active Power Filters and Non-linear Loads <b>2019</b> ,		1
267	Study on Parasitic Capacitance Effect in High Power Inductive Power Transfer System <b>2019</b> ,		3
266	AR-Aided Smart Sensing for In-Line Condition Monitoring of IGBT Wafer. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8197-8204	8.9	6
265	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> , <b>2019</b> , 7, 157-167	5.6	13
264	Integrated assessment of a sustainable microgrid for a remote village in hilly region. <i>Energy Conversion and Management</i> , <b>2019</b> , 180, 442-472	10.6	61
263	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> , <b>2019</b> , 7, 184-195	5.6	1
262	Online Junction Temperature Extraction of SiC Power mosfets With Temperature Sensitive Optic Parameter (TSOP) Approach. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10143-10152	7.2	18
261	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 5979-5991	8.9	11
260	Erratum to Synthesis and Design of the AC Current Controller and Impedance Network for the Quasi-Z-Source Converter [Oct 18 8287-8296]. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 3310-3310	8.9	10
259	An Improved CPS-PWM Scheme-Based Voltage Balancing Strategy for MMC With Fundamental Frequency Sorting Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 2387-2397	8.9	28
258	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> , <b>2019</b> , 66, 2474-2484	8.9	19
257	Synthesis and Design of the AC Current Controller and Impedance Network for the Quasi-Z-Source Converter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 8287-8296	8.9	7
256	Principle and Topology Synthesis of Integrated Single-Input Dual-Output and Dual-Input Single-Output DCDC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 3815-3825	8.9	52

255	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. <i>IEEE Access</i> , <b>2018</b> , 6, 24925-24951	3.5	53
254	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> , <b>2018</b> , 6, 930-940	5.6	12
253	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> , <b>2018</b> , 33, 1075-1086	7.2	30
252	Decoupled Current Control With Synchronous Frequency Damping for MMC Considering Sub-module Capacitor Voltage Ripple. <i>IEEE Transactions on Power Delivery</i> , <b>2018</b> , 33, 419-428	4.3	15
251	Research on the Integration of Hybrid Energy Storage System and Dual Three-Phase PMSM Drive in EV. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6602-6611	8.9	45
250	. <i>IEEE Access</i> , <b>2018</b> , 6, 37533-37555	3.5	18
249	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> , <b>2018</b> , 65, 4724-4738	8.9	30
248	Power maximised and anti-saturation power conditioning circuit for current transformer harvester on overhead lines. <i>IET Power Electronics</i> , <b>2018</b> , 11, 2271-2278	2.2	7
247	Implementation of SVM-DTC on the Integration System with Hybrid Energy Storage and Dual Three-Phase PMSM <b>2018</b> ,		1
246	Online Aging Parameter Extraction with Induced Voltage $v_{\text{e}}$ between Kelvin and Power Emitter in Turn-off Progress for IGBT Modules <b>2018</b> ,		3
245	Layout of Series-connected SiC MOSFET Devices for Medium Voltage Applications <b>2018</b> ,		3
244	Advantages for embedding DC-link decoupling capacitance in high capacity power electronic converters <b>2018</b> ,		3
243	Magnetic Coupling Positioning Using Simultaneous Power and Data Transfer <b>2018</b> ,		3
242	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> , <b>2018</b> , 11, 1399-1406	2.2	2
241	DC Power-Line Communication Based on Power/Signal Dual Modulation in Phase Shift Full-Bridge Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 693-702	7.2	35
240	Average-Value Model of Modular Multilevel Converters Considering Capacitor Voltage Ripple. <i>IEEE Transactions on Power Delivery</i> , <b>2017</b> , 32, 723-732	4.3	48
239	Online High-Power p-i-n Diode Junction Temperature Extraction With Reverse Recovery Fall Storage Charge. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 2558-2567	7.2	15
238	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> , <b>2017</b> , 45, 60-67	1.3	5

237	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> , <b>2017</b> , 5, 631-641	4	3
236	Topology Derivation and Analysis of Integrated Multiple Output Isolated DCDC Converters With Stacked Configuration for Low-Cost Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2017</b> , 64, 2207-2218	3.9	12
235	Principle and Application of the Contactless Load Detection Based on the Amplitude Decay Rate in a Transient Process. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 8936-8944	7.2	10
234	A current sensorless IGBT junction temperature extraction method via parasitic parameters between power collector and auxiliary collector <b>2017</b> ,		4
233	A Graph Theory Based Energy Routing Algorithm in Energy Local Area Network. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 3275-3285	11.9	55
232	Dynamic junction temperature estimation via built-in negative thermal coefficient (NTC) thermistor in high power IGBT modules <b>2017</b> ,		10
231	Combined Current Sensing Method for the Three-Phase Quasi-Z-Source Inverter. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 7152-7160	8.9	1
230	A Family of Zero-Voltage-Switching Magnetic Coupling Nonisolated Bidirectional DCDC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 6223-6233	8.9	40
229	Integrated Multiple-Output Synchronous Buck Converter for Electric Vehicle Power Supply. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 5752-5761	6.8	46
228	Common-mode voltage analysis and suppression in five-level modular composited converter <b>2017</b> ,		2
227	An integrated AC-DC converter with isolation and reduced number of power components <b>2017</b> ,		1
226	Separation test method for investigation of current density effects on bond wires of SiC power MOSFET modules <b>2017</b> ,		10
225	Analytical and Experimental Investigation on A Dynamic Thermo-Sensitive Electrical Parameter With Maximum $\frac{dI_C}{dt}$ During Turn-off for High Power Trench Gate/Field-Stop IGBT Modules. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 6394-6404	7.2	26
224	Enhanced Power Flow Control for Grid-Connected Droop-Controlled Inverters With Improved Stability. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 5919-5929	8.9	54
223	A review of multi criteria decision making (MCDM) towards sustainable renewable energy development. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 596-609	16.2	659
222	Discontinuous Space Vector PWM Strategy of Neutral-Point-Clamped Three-Level Inverters for Output Current Ripple Reduction. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 5109-5121	7.2	54
221	Direct Sequence Spread Spectrum-Based PWM Strategy for Harmonic Reduction and Communication. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 4455-4465	7.2	31
220	Turn-off performance optimization of press-pack IGBT with advanced active gate driver technique <b>2017</b> ,		4



219	Single coupled-inductor dual output soft-switching DCDC converters with improved cross-regulation and reduced components. <i>IET Power Electronics</i> , <b>2017</b> , 10, 1665-1678	2.2	11
218	Modeling and state-space feedback design of the battery current controller for the energy stored quasi-Z-source inverter <b>2017</b> ,		2
217	Elimination of bus voltage impact on temperature sensitive electrical parameter during turn-on transition for junction temperature estimation of high-power IGBT modules <b>2017</b> ,		4
216	Energy management system controller for a rural microgrid. <i>Journal of Engineering</i> , <b>2017</b> , 2017, 834-839	0.7	17
215	Application of multi-criteria decision analysis tool for design of a sustainable micro-grid for a remote village in the Himalayas. <i>Journal of Engineering</i> , <b>2017</b> , 2017, 2108-2113	0.7	10
214	Overview of Current Microgrid Policies, Incentives and Barriers in the European Union, United States and China. <i>Sustainability</i> , <b>2017</b> , 9, 1146	3.6	69
213	Analysis and Control of Bipolar LVDC Grid With DC Symmetrical Component Method. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 685-694	7	43
212	Effects of uneven temperature of IGBT and diode on switching characteristics of bridge legs in MW-level power converters <b>2016</b> ,		2
211	Estimation method for turn-off collector voltage of IGBTs using emitter-auxiliary inductor <b>2016</b> ,		2
210	Elimination of collector current impact in TSEP-based junction temperature extraction method for high-power IGBT modules. <i>Chinese Journal of Electrical Engineering</i> , <b>2016</b> , 2, 85-90	4	3
209	Fundamental frequency sorting strategy for capacitor voltage balance of modular multilevel converters with phase disposition PWM <b>2016</b> ,		1
208	A thermo-sensitive electrical parameter with maximum $dI_C/dt$ during turn-off for high power Trench/Field-Stop IGBT modules <b>2016</b> ,		7
207	Average-value model of modular multilevel converters considering capacitor voltage <b>2016</b> ,		2
206	Flying-Capacitor-Based Hybrid LLC Converters With Input Voltage Autobalance Ability for High Voltage Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 1908-1920	7.2	23
205	A Capacitor Voltage Balancing Method With Fundamental Sorting Frequency for Modular Multilevel Converters Under Staircase Modulation. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7809-7822	7.2	44
204	Hybrid Ultracapacitor-Battery Energy Storage System Based on Quasi-Z-source Topology and Enhanced Frequency Dividing Coordinated Control for EV. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 7598-7610	7.2	48
203	Power decoupling strategy based on virtual negative resistor for inverters in low-voltage microgrids. <i>IET Power Electronics</i> , <b>2016</b> , 9, 1037-1044	2.2	39
202	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> , <b>2016</b> , 1-1	7.2	6

201	Zero-voltage-switching buck converter with low-voltage stress using coupled inductor. <i>IET Power Electronics</i> , <b>2016</b> , 9, 719-727	2.2	19
200	Modern IGBT gate driving methods for enhancing reliability of high-power converters [An overview. <i>Microelectronics Reliability</i> , <b>2016</b> , 58, 141-150	1.2	15
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193	Voltage and power balance control strategy for three-phase modular cascaded solid stated transformer <b>2016</b> ,		12
192	Closed-loop control design for WPT system using power and data frequency division multiplexing technique <b>2016</b> ,		2
191	Topology Derivation and Generalized Analysis of Zero-Voltage-Switching Synchronous DCDC Converters With Coupled Inductors. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 1-1	8.9	18
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184	Hybrid-bridge transformerless photovoltaic grid-connected inverter. <i>IET Power Electronics</i> , <b>2015</b> , 8, 439-446		26

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179	Controller design for three-phase inverter with power unbalanced loads applied in microgrids <b>2015</b> ,		2
178	Synchronous frequency resonance of virtual synchronous generators and damping control <b>2015</b> ,		15
177	An Isolated High-Frequency DC/AC Converter Based on Differential Structure With Ultralow Distortion Output Voltage. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 7448-7459	8.9	0
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173	A novel hybrid ZVZCS full-bridge converter suitable for wide input voltage range <b>2015</b> ,		2
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169	Analysis and compensation of dead-time effect considering parasitic capacitance and ripple current <b>2015</b> ,		9
168	Application of bi-directional Z-Source in ultracapacitor-battery hybrid energy storage system for EV <b>2015</b> ,		4
167	Theoretical Evaluation of Stability Improvement Brought by Resonant Current Loop for Paralleled LLC Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 4170-4180	8.9	26
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165	Integrated dual-output synchronous DC-DC buck converter <b>2015</b> ,		4
164	Analysis of pre-compensator for disturbance signal elimination in single-phase inverters with virtual vector control <b>2015</b> ,		2
163	Hybrid sinusoidal-pulse charging strategy for Li-ion battery in electric vehicle application <b>2015</b> ,		4
162	Enhanced HERIC based transformerless inverter with hybrid clamping cell for leakage current elimination <b>2015</b> ,		6
161	Optimised phase disposition pulse-width modulation strategy for hybrid-clamped multilevel inverters using switching state sequences. <i>IET Power Electronics</i> , <b>2015</b> , 8, 1095-1103	2.2	7
160	Estimation and control of battery charging current for the asymmetrical Z-source topology in the HESS application <b>2015</b> ,		1
159	Implementation of simple moving voltage average technique with direct control incremental conductance method to optimize the efficiency of DC microgrid <b>2015</b> ,		3
158	Wireless Power and Data Transfer via a Common Inductive Link Using Frequency Division Multiplexing. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 7810-7820	8.9	107
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146	Analysis and design of high frequency LCC resonant converter applied in corona generator for film treatment <b>2014</b> ,		1
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130	Online junction temperature extraction with turn-off delay time for high power IGBTs <b>2014</b> ,		15

129	Design considerations of maximum energy harvesting and voltage control from high voltage power cables <b>2014</b> ,		2
128	An embedded power line communication technique for DC-DC Distributed Power System based on the switching ripple <b>2014</b> ,		3
127	Duty cycle-based start-up control for a ZVS bidirectional DC-DC converter <b>2014</b> ,		1
126	An optimized modulation method for full-bridge/push-pull bi-directional DC-DC converter with wide-range ZVS and reduced spike voltage <b>2014</b> ,		2
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117	Performance analysis of a ZVS bidirectional DC-DC converter with reduced voltage stress on high voltage side <b>2013</b> ,		4
116	Insolated high frequency link AC-AC converter based on sinusoidal wave modulation technology for voltage compensation <b>2013</b> ,		2
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114	Advanced Four-Pair Architecture With Input Current Balance Function for Power Over Ethernet (PoE) System. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 2343-2355	7.2	10
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104	Large-signal modeling of LCC resonant converter operating in discontinuous current mode applied to electrostatic precipitators <b>2013</b> ,		7
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69	A novel PWM control method to eliminate the effect of dead time on the output waveform for hybrid clamped multilevel inverters <b>2010</b> ,		2
68	A smart and simple PV charger for portable applications <b>2010</b> ,		15
67	An active clamp ZVT converter with input-parallel and output-series configuration <b>2010</b> ,		8
66	Realization of a general LED lighting system based on a novel Power Line Communication technology <b>2010</b> ,		7
65	Active clamp boost converter with switched capacitor and coupled inductor <b>2010</b> ,		4
64	Phase-shifted full bridge converter featuring ZVS over the full load range <b>2010</b> ,		9
63	Development of a compact 750KVA three-phase NPC three-level universal inverter module with specifically designed busbar <b>2010</b> ,		33
62	Performance analysis of an interleaved high step-up converter with voltage multiplier cell <b>2010</b> ,		2
61	Overview of supercapacitor voltage equalisation circuits for an electric vehicle charging application <b>2010</b> ,		11
60	General law of non-isolated interleaved high step-up topologies with winding-cross-coupled inductors deduced from isolation counterparts <b>2010</b> ,		1
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52	Application Summarization of Coupled Inductors in DC/DC Converters <b>2009</b> ,		15
51	Fault-tolerant design for flying capacitor multilevel inverters <b>2009</b> ,		3
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9	A new soft switching snubber for the interleaved boost converters		5
8	A novel type of combined multilevel converter topologies		3
7	A simple SVPWM algorithm for multilevel inverters		2
6	A multilevel converter topology with fault tolerant ability		2
5	Novel carrier-based PWM methods for multilevel inverter		6
4	Interleaved three-level boost converter with zero diode reverse-recovery loss		2

3	Unified passive circuit for snubber energy recovery in UPS inverters		3
2	Bridge leg snubbers for GTO thyristor inverters		4
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