

Xiangning He

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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	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
343	A review of multi criteria decision making (MCDM) towards sustainable renewable energy development. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 69, 596-609	16.2	659
342	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
341	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
340	Design and Analysis of a Grid-Connected Photovoltaic Power System. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 992-1000	7.2	302
339	New Sliding-Mode Observer for Position Sensorless Control of Permanent-Magnet Synchronous Motor. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 710-719	8.9	289
338	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
337	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
336	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
335	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
334	A Novel Direct Torque Control Scheme for a Sensorless Five-Phase Induction Motor Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 503-513	8.9	131
333	A multilevel converter topology with fault-tolerant ability. <i>IEEE Transactions on Power Electronics</i> , 2005 , 20, 405-415	7.2	120
332	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
331	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
330	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
329	Wireless Power and Data Transfer via a Common Inductive Link Using Frequency Division Multiplexing. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 7810-7820	8.9	107
328	Soft Switching Circuit for Interleaved Boost Converters. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 80-86	7.2	103

327	Voltage unbalance and harmonics compensation for islanded microgrid inverters. <i>IET Power Electronics</i> , 2014 , 7, 1055-1063	2.2	101
326	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
325	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
324	Dual-Plane Vector Control of a Five-Phase Induction Machine for an Improved Flux Pattern. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 1996-2005	8.9	95
323	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
322	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
321	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
320	Common-Duty-Ratio Control of Input-Series Output-Parallel Connected Phase-shift Full-Bridge DC/DC Converter Modules. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 3318-3329	7.2	80
319	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
318	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
317	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
316	General Derivation Law of Nonisolated High-Step-Up Interleaved Converters With Built-In Transformer. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 1650-1661	8.9	76
315	Reconfiguration of Carrier-Based Modulation Strategy for Fault Tolerant Multilevel Inverters. <i>IEEE Transactions on Power Electronics</i> , 2007 , 22, 2050-2060	7.2	76
314	Multilevel Circuit Topologies Based on the Switched-Capacitor Converter and Diode-Clamped Converter. <i>IEEE Transactions on Power Electronics</i> , 2011 , 26, 2127-2136	7.2	74
313	A Review of Non-Isolated High Step-Up DC/DC Converters in Renewable Energy Applications 2009 ,		72
312	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
311	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
310	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

309	Passivity-Based Control of DC Microgrid for Self-Disciplined Stabilization. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2623-2632	7	65
308	Common-Duty-Ratio Control of Input-Parallel Output-Parallel (IPOP) Connected DC/DC Converter Modules With Automatic Sharing of Currents. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 3277-3291	7.2	65
307	Research on Hybrid-Clamped Multilevel-Inverter Topologies. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 1898-1907	8.9	64
306	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
305	Integrated assessment of a sustainable microgrid for a remote village in hilly region. <i>Energy Conversion and Management</i> , 2019 , 180, 442-472	10.6	61
304	Photovoltaic fault detection using a parameter based model. <i>Solar Energy</i> , 2013 , 96, 96-102	6.8	60
303	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
302	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7489-7498	7.2	56
301	A Graph Theory Based Energy Routing Algorithm in Energy Local Area Network. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 3275-3285	11.9	55
300	Enhanced Power Flow Control for Grid-Connected Droop-Controlled Inverters With Improved Stability. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5919-5929	8.9	54
299	Discontinuous Space Vector PWM Strategy of Neutral-Point-Clamped Three-Level Inverters for Output Current Ripple Reduction. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 5109-5121	7.2	54
298	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. <i>IEEE Access</i> , 2018 , 6, 24925-24951	3.5	53
297	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
296	Principle and Topology Synthesis of Integrated Single-Input Dual-Output and Dual-Input Single-Output DC/DC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3815-3825	8.9	52
295	Polypropylene surface modification model in atmospheric pressure dielectric barrier discharge. <i>Surface and Coatings Technology</i> , 2006 , 201, 3377-3384	4.4	52
294	Strategic integration of battery energy storage systems with the provision of distributed ancillary services in active distribution systems. <i>Applied Energy</i> , 2019 , 253, 113503	10.7	51
293	Online Modeling for Switched Reluctance Motors Using B-Spline Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 3317-3322	8.9	51
292	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

291	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> , 2016 , 31, 7598-7610	7.2	48
290	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
289	Effect of atmospheric pressure dielectric barrier discharge air plasma on electrode surface. <i>Applied Surface Science</i> , 2006 , 253, 926-929	6.7	48
288	Integrated Multiple-Output Synchronous Buck Converter for Electric Vehicle Power Supply. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 5752-5761	6.8	46
287	Analysis and Mitigation of Inverter Output Impedance Impacts for Distributed Energy Resource Interface. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 3563-3576	7.2	46
286	Research on the Integration of Hybrid Energy Storage System and Dual Three-Phase PMSM Drive in EV. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6602-6611	8.9	45
285	A Capacitor Voltage Balancing Method With Fundamental Sorting Frequency for Modular Multilevel Converters Under Staircase Modulation. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7809-7822	7.2	44
284	Single phase three-level power factor correction circuit with passive lossless snubber. <i>IEEE Transactions on Power Electronics</i> , 2002 , 17, 946-953	7.2	44
283	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
282	ZVT Interleaved Boost Converters with Built-In Voltage Doubler and Current Auto-Balance Characteristic. <i>IEEE Transactions on Power Electronics</i> , 2008 , 23, 2847-2854	7.2	43
281	A Family of Zero-Voltage-Switching Magnetic Coupling Nonisolated Bidirectional DCDC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6223-6233	8.9	40
280	Power decoupling strategy based on virtual negative resistor for inverters in low-voltage microgrids. <i>IET Power Electronics</i> , 2016 , 9, 1037-1044	2.2	39
279	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
278	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
277	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
276	DC Power-Line Communication Based on Power/Signal Dual Modulation in Phase Shift Full-Bridge Converters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 693-702	7.2	35
275	. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 1291-1300	8.9	35
274	A Novel PWM Control Method for Hybrid-Clamped Multilevel Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 2365-2373	8.9	34

273	Torque Ripple Reduction in Switched Reluctance Motor Drives Using B-Spline Neural Networks. <i>IEEE Transactions on Industry Applications</i> , 2006 , 42, 1445-1453	4.3	34
272	Preparation of hydrophobic coating on glass surface by dielectric barrier discharge using a 16kHz power supply. <i>Applied Surface Science</i> , 2006 , 252, 8348-8351	6.7	34
271	Development of a compact 750KVA three-phase NPC three-level universal inverter module with specifically designed busbar 2010 ,		33
270	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
269	Direct Sequence Spread Spectrum-Based PWM Strategy for Harmonic Reduction and Communication. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4455-4465	7.2	31
268	Automatic Current Sharing of an Input-Parallel Output-Parallel (IPOP)-Connected DCDC Converter System With Chain-Connected Rectifiers. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 2997-3016	7.2	31
267	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
266	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
265	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
264	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
263	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
262	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
261	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
260	Three-Level ForwardFlyback Phase-Shift ZVS Converter With Integrated Series-Connected Coupled Inductors. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 2846-2856	7.2	29
259	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
258	Nature of power electronics and integration of power conversion with communication for talkative power. <i>Nature Communications</i> , 2020 , 11, 2479	17.4	28
257	The effect of air plasma on barrier dielectric surface in dielectric barrier discharge. <i>Applied Surface Science</i> , 2010 , 257, 1698-1702	6.7	28
256	Simple passive lossless snubber for high-power multilevel inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2006 , 53, 727-735	8.9	28

255	An Improved CPS-PWM Scheme-Based Voltage Balancing Strategy for MMC With Fundamental Frequency Sorting Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2387-2397	8.9	28
254	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 833-842	5.6	26
253	Hybrid-bridge transformerless photovoltaic grid-connected inverter. <i>IET Power Electronics</i> , 2015 , 8, 439-446		26
252	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> , 2017 , 32, 6394-6404	7.2	26
251	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
250	Active resonance wireless power transfer system using phase shift control strategy 2014 ,		25
249	Design of High Voltage, High Power and High Frequency Transformer in LCC Resonant Converter 2009 ,		24
248	Surface modification of poly(ethylene terephthalate) (PET) by magnet enhanced dielectric barrier discharge air plasma. <i>Surface and Coatings Technology</i> , 2011 , 205, 4993-4999	4.4	24
247	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
246	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
245	Embedding Power Line Communication in Photovoltaic Optimizer by Modulating Data in Power Control Loop. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3948-3958	8.9	22
244	Equivalent Switch Circuit Model and Proportional Resonant Control for Triple Line-Voltage Cascaded Voltage-Source Converter. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2389-2401	7.2	22
243	A Modular Multilevel Resonant DCDC Converter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7921-7932		21
242	Full-Duplex High-Speed Simultaneous Communication Technology for Wireless EV Charging. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9369-9373	7.2	20
241	Asymmetry Three-Level Grid-Connected Current Hysteresis Control With Varying Bus Voltage and Virtual Oversample Method. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3214-3222	7.2	20
240	Zero-voltage-switching buck converter with low-voltage stress using coupled inductor. <i>IET Power Electronics</i> , 2016 , 9, 719-727	2.2	19
239	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
238	. <i>IEEE Access</i> , 2018 , 6, 37533-37555	3.5	18

237	LCC Resonant Converter Operating under Discontinuous Resonant Current Mode in High Voltage, High Power and High Frequency Applications 2009 ,		18
236	Topology Derivation and Generalized Analysis of Zero-Voltage-Switching Synchronous DC/DC Converters With Coupled Inductors. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 1-1	8.9	18
235	Active gate driving method for reliability improvement of IGBTs via junction temperature swing reduction 2016 ,		18
234	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
233	Boost-type inverter-less shunt active power filter for VAR and harmonic compensation. <i>IET Power Electronics</i> , 2013 , 6, 535-542	2.2	17
232	Energy management system controller for a rural microgrid. <i>Journal of Engineering</i> , 2017 , 2017, 834-839	0.7	17
231	Multiple-Positions-Coupled Sampling Method for PMSM Three-Phase Current Reconstruction With a Single Current Sensor. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 699-708	7.2	17
230	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
229	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1767-1781	5.6	16
228	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
227	Synchronous frequency resonance of virtual synchronous generators and damping control 2015 ,		15
226	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
225	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
224	Analysis and Design of a Current-Source CLCC Resonant Converter for DBD Applications. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 1610-1621	7.2	15
223	Emission Behavior and Physicochemical Properties of Aerosol Particulate Matter (PM10/2.5) from Iron Ore Sintering Process. <i>ISIJ International</i> , 2015 , 55, 2582-2588	1.7	15
222	Online junction temperature extraction with turn-off delay time for high power IGBTs 2014 ,		15
221	A smart and simple PV charger for portable applications 2010 ,		15
220	Application Summarization of Coupled Inductors in DC/DC Converters 2009 ,		15

219	Parasitic Inductance Effects on the Switching Loss Measurement of Power Semiconductor Devices 2006,		15
218	Integration of Improved Flux Linkage Observer and IB Starting Method for Wide-Speed-Range Sensorless SPMSM Drives. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8374-8383	7.2	14
217	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
216	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
215	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
214	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
213	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> , 2017 , 64, 2207-2218	3.9	12
212	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
211	A non-isolated interleaved ZVT boost converter with high step-up conversion derived from its isolated counterpart 2007,		12
210	Online Capacitance Estimation of Submodule Capacitors for Modular Multilevel Converter With Nearest Level Modulation. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6678-6681	7.2	12
209	Voltage and power balance control strategy for three-phase modular cascaded solid stated transformer 2016,		12
208	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
207	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
206	Novel communication method between power converters for DC micro-grid applications 2015,		11
205	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
204	Single coupled-inductor dual output soft-switching DCDC converters with improved cross-regulation and reduced components. <i>IET Power Electronics</i> , 2017 , 10, 1665-1678	2.2	11
203	Energy management with dual droop plus frequency dividing coordinated control strategy for electric vehicle applications. <i>Journal of Modern Power Systems and Clean Energy</i> , 2015 , 3, 212-220	4	11
202	Overview of supercapacitor voltage equalisation circuits for an electric vehicle charging application 2010,		11

201	Novel passive lossless turn-on snubber for voltage source inverters. <i>IEEE Transactions on Power Electronics</i> , 1997 , 12, 173-179	7.2	11
200	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5979-5991	8.9	11
199	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
198	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
197	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> , 2017 , 32, 8936-8944	7.2	10
196	Dynamic junction temperature estimation via built-in negative thermal coefficient (NTC) thermistor in high power IGBT modules 2017 ,		10
195	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
194	Separation test method for investigation of current density effects on bond wires of SiC power MOSFET modules 2017 ,		10
193	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
192	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> , 2017 , 2017, 2108-2113	0.7	10
191	Effect of dielectric barrier discharge on semiconductor Si electrode surface. <i>Applied Surface Science</i> , 2010 , 256, 6047-6052	6.7	10
190	Analysis and Suppression Strategy for the Double-Line Frequency Pulsation in Single-Phase Quasi-Z-Source Converter. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 12567-12576	7.2	9
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188	Analysis and compensation of dead-time effect considering parasitic capacitance and ripple current 2015 ,		9
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- 1 Design and Evaluation of Microgrids Based on Renewable Energy Technologies with a Perspective of Sustainable Development **2021**, 385-415