Jih-Sheng Lai

List of Publications by Year
in descending order

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411 papers	23,391 citations	19608 61 h-index	11899 134 g-index
412 all docs	412 docs citations	412 times ranked	8547 citing authors

#	Article	IF	Citations
1	Multilevel inverters: a survey of topologies, controls, and applications. IEEE Transactions on Industrial Electronics, 2002, 49, 724-738.	5.2	5,307
2	Multilevel converters-a new breed of power converters. IEEE Transactions on Industry Applications, 1996, 32, 509-517.	3.3	2,121
3	Multilevel converters-a new breed of power converters. , 0, , .		1,212
4	A multilevel voltage-source inverter with separate DC sources for static VAr generation. IEEE Transactions on Industry Applications, 1996, 32, 1130-1138.	3.3	696
5	Generalized instantaneous reactive power theory for three-phase power systems. IEEE Transactions on Instrumentation and Measurement, 1996, 45, 293-297.	2.4	626
6	A multilevel voltage-source inverter with separate DC sources for static VAr generation. , 0, , .		392
7	High Reliability and Efficiency Single-Phase Transformerless Inverter for Grid-Connected Photovoltaic Systems. IEEE Transactions on Power Electronics, 2013, 28, 2235-2245.	5.4	338
8	Design of Parallel Inverters for Smooth Mode Transfer Microgrid Applications. IEEE Transactions on Power Electronics, 2010, 25, 6-15.	5.4	321
9	High-Power Density Design of a Soft-Switching High-Power Bidirectional dcâ€“dc Converter. IEEE Transactions on Power Electronics, 2007, 22, 1145-1153.	5.4	316
10	A high-efficiency grid-tie battery energy storage system. IEEE Transactions on Power Electronics, 2011, 26, 886-896.	5.4	286
11	High-Efficiency MOSFET Inverter with H6-Type Configuration for Photovoltaic Nonisolated AC-Module Applications. IEEE Transactions on Power Electronics, 2011, 26, 1253-1260.	5.4	286
12	Low Frequency Current Ripple Reduction Technique With Active Control in a Fuel Cell Power System With Inverter Load. IEEE Transactions on Power Electronics, 2007, 22, 1429-1436.	5.4	283
13	Design of Bidirectional DCâ€“DC Resonant Converter for Vehicle-to-Grid (V2G) Applications. IEEE Transactions on Transportation Electrification, 2015, 1, 232-244.	5.3	242
14	Energy Management Power Converters in Hybrid Electric and Fuel Cell Vehicles. Proceedings of the IEEE, 2007, 95, 766-777.	16.4	241
15	Dynamic performance and control of a static VAr generator using cascade multilevel inverters. IEEE Transactions on Industry Applications, 1997, 33, 748-755.	3.3	211
16	Design and Analysis of an MPPT Technique for Small-Scale Wind Energy Conversion Systems. IEEE Transactions on Energy Conversion, 2013, 28, 756-767.	3.7	189
17	Derivation, Analysis, and Implementation of a Boostâ€“Buck Converter-Based High-Efficiency PV Inverter. IEEE Transactions on Power Electronics, 2012, 27, 1304-1313.	5.4	187
18	Optimum harmonic reduction with a wide range of modulation indexes for multilevel converters. IEEE Transactions on Industrial Electronics, 2002, 49, 875-881.	5.2	177

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19	A Novel Three-Phase High-Power Soft-Switched DC/DC Converter for Low-Voltage Fuel Cell Applications. IEEE Transactions on Industry Applications, 2005, 41, 1691-1697.	3.3	169
20	A Novel Valley-Fill SEPIC-Derived Power Supply Without Electrolytic Capacitor for LED Lighting Application. IEEE Transactions on Power Electronics, 2012, 27, 3057-3071.	5.4	169
21	Modeling and Control of Seriesâ€“Series Compensated Inductive Power Transfer System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 111-123.	3.7	165
22	A Bidirectional-Switch-Based Wide-Input Range High-Efficiency Isolated Resonant Converter for Photovoltaic Applications. IEEE Transactions on Power Electronics, 2014, 29, 3473-3484.	5.4	162
23	Admittance Compensation in Current Loop Control for a Grid-Tie LCL Fuel Cell Inverter. IEEE Transactions on Power Electronics, 2008, 23, 1716-1723.	5.4	148
24	Hybrid-Switching Full-Bridge DCâ€“DC Converter With Minimal Voltage Stress of Bridge Rectifier, Reduced Circulating Losses, and Filter Requirement for Electric Vehicle Battery Chargers. IEEE Transactions on Power Electronics, 2013, 28, 1132-1144.	5.4	146
25	Parasitic Ringing and Design Issues of Digitally Controlled High Power Interleaved Boost Converters. IEEE Transactions on Power Electronics, 2004, 19, 1341-1352.	5.4	145
26	High-Efficiency Contactless Power Transfer System for Electric Vehicle Battery Charging Application. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 65-74.	3.7	143
27	SiC power diodes provide breakthrough performance for a wide range of applications. IEEE Transactions on Power Electronics, 2001, 16, 273-280.	5.4	140
28	Power conditioning circuit topologies. IEEE Industrial Electronics Magazine, 2009, 3, 24-34.	2.3	137
29	High Boost Ratio Hybrid Transformer DCâ€“DC Converter for Photovoltaic Module Applications. IEEE Transactions on Power Electronics, 2013, 28, 2048-2058.	5.4	127
30	Fuel cell and power conditioning system interactions. , 0, , .		125
31	An Integrated Boost Resonant Converter for Photovoltaic Applications. IEEE Transactions on Power Electronics, 2013, 28, 1199-1207.	5.4	125
32	Inverter EMI modeling and simulation methodologies. IEEE Transactions on Industrial Electronics, 2006, 53, 736-744.	5.2	121
33	A Three-Phase Current Reconstruction Strategy With Online Current Offset Compensation Using a Single Current Sensor. IEEE Transactions on Industrial Electronics, 2012, 59, 2924-2933.	5.2	118
34	High-Efficiency Hybrid Full-Bridgeâ€“Half-Bridge Converter With Shared ZVS Lagging Leg and Dual Outputs in Series. IEEE Transactions on Power Electronics, 2013, 28, 849-861.	5.4	114
35	Characterization of power electronics system interconnect parasitics using time domain reflectometry. IEEE Transactions on Power Electronics, 1999, 14, 622-628.	5.4	111
36	Zero-Voltage-Switching PWM Resonant Full-Bridge Converter With Minimized Circulating Losses and Minimal Voltage Stresses of Bridge Rectifiers for Electric Vehicle Battery Chargers. IEEE Transactions on Power Electronics, 2013, 28, 4657-4667.	5.4	110

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37	Design Considerations to Reduce Gap Variation and Misalignment Effects for the Inductive Power Transfer System. IEEE Transactions on Power Electronics, 2015, 30, 6108-6119.	5.4	108
38	Three-Phase Dual-Buck Inverter With Unified Pulsewidth Modulation. IEEE Transactions on Power Electronics, 2012, 27, 1159-1167.	5.4	106
39	Analysis and Design of Maximum Power Point Tracking Scheme for Thermoelectric Battery Energy Storage System. IEEE Transactions on Industrial Electronics, 2009, 56, 3709-3716.	5.2	105
40	A High-Efficiency MOSFET Transformerless Inverter for Nonisolated Microinverter Applications. IEEE Transactions on Power Electronics, 2015, 30, 3610-3622.	5.4	103
41	A delta-configured auxiliary resonant snubber inverter. IEEE Transactions on Industry Applications, 1996, 32, 518-525.	3.3	102
42	Design of High-Efficiency Bidirectional DCâ€“DC Converter and High-Precision Efficiency Measurement. IEEE Transactions on Power Electronics, 2010, 25, 650-658.	5.4	102
43	Dynamic performance and control of a static VAr generator using cascade multilevel inverters. , 0, , .		101
44	Digital Plug-In Repetitive Controller for Single-Phase Bridgeless PFC Converters. IEEE Transactions on Power Electronics, 2013, 28, 165-175.	5.4	99
45	High-Efficiency DCâ€“DC Converter With Twin Bus for Dimmable LED Lighting. IEEE Transactions on Power Electronics, 2011, 26, 2095-2100.	5.4	98
46	A High-Efficiency Hybrid Resonant Converter With Wide-Input Regulation for Photovoltaic Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 3684-3695.	5.2	98
47	Current Phase Lead Compensation in Single-Phase PFC Boost Converters With a Reduced Switching Frequency to Line Frequency Ratio. IEEE Transactions on Power Electronics, 2007, 22, 113-119.	5.4	95
48	An Improved Zero-Voltage Switching Inverter Using Two Coupled Magnetics in One Resonant Pole. IEEE Transactions on Power Electronics, 2010, 25, 952-961.	5.4	94
49	A multilevel voltage-source converter system with balanced DC voltages. , 0, , .		93
50	High Efficiency Photovoltaic Source Simulator with Fast Response Time for Solar Power Conditioning Systems Evaluation. IEEE Transactions on Power Electronics, 2014, 29, 1285-1297.	5.4	92
51	A Seamless Mode Transfer Maximum Power Point Tracking Controller For Thermoelectric Generator Applications. IEEE Transactions on Power Electronics, 2008, 23, 2310-2318.	5.4	91
52	Hybrid Resonant and PWM Converter With High Efficiency and Full Soft-Switching Range. IEEE Transactions on Power Electronics, 2012, 27, 4925-4933.	5.4	91
53	New start-up schemes for isolated full-bridge boost converters. IEEE Transactions on Power Electronics, 2003, 18, 946-951.	5.4	88
54	A High-Efficiency Quasi-Single-Stage Bridgeless Electrolytic Capacitor-Free High-Power ACâ€“DC Driver for Supplying Multiple LED Strings in Parallel. IEEE Transactions on Power Electronics, 2016, 31, 5825-5836.	5.4	87

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55	Source and Load Adaptive Design for a High-Power Soft-Switching Inverter. IEEE Transactions on Power Electronics, 2006, 21, 1667-1675.	5.4	86
56	Multilevel intelligent universal transformer for medium voltage applications. , 0, , .		85
57	Cascade Dual Buck Inverter With Phase-Shift Control. IEEE Transactions on Power Electronics, 2012, 27, 2067-2077.	5.4	84
58	Resonant snubber-based soft-switching inverters for electric propulsion drives. IEEE Transactions on Industrial Electronics, 1997, 44, 71-80.	5.2	82
59	Comparison of standards and power supply design options for limiting harmonic distortion in power systems. IEEE Transactions on Industry Applications, 1993, 29, 688-695.	3.3	81
60	New Overall Control Strategy for Small-Scale WECS in MPPT and Stall Regions With Mode Transfer Control. IEEE Transactions on Energy Conversion, 2013, 28, 1082-1092.	3.7	80
61	High-efficiency inverter with H6-type configuration for photovoltaic non-isolated ac module applications. , 2010, , .		79
62	Fuel Cell Power Systems and Applications. Proceedings of the IEEE, 2017, 105, 2166-2190.	16.4	79
63	Solid state Marx Generator using series-connected IGBTs. IEEE Transactions on Plasma Science, 2005, 33, 1198-1204.	0.6	78
64	LCL Filter Design of a 50-kW 60-kHz SiC Inverter with Size and Thermal Considerations for Aerospace Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 8321-8333.	5.2	76
65	Hybrid Transformer ZVS/ZCS DCâ€“DC Converter With Optimized Magnetics and Improved Power Devices Utilization for Photovoltaic Module Applications. IEEE Transactions on Power Electronics, 2015, 30, 2127-2136.	5.4	71
66	Modeling-based examination of conducted EMI emissions from hard- and soft-switching PWM inverters. IEEE Transactions on Industry Applications, 2001, 37, 1383-1393.	3.3	70
67	High-power 4H-SiC JBS rectifiers. IEEE Transactions on Electron Devices, 2002, 49, 2054-2063.	1.6	69
68	Design of a Photovoltaic Simulator With a Novel Reference Signal Generator and Two-StageLCOutput Filter. IEEE Transactions on Power Electronics, 2010, 25, 1331-1338.	5.4	68
69	A Hybrid Resonant Converter Utilizing a Bidirectional GaN AC Switch for High-Efficiency PV Applications. IEEE Transactions on Industry Applications, 2014, 50, 3468-3475.	3.3	68
70	A Carrier-Based Neutral Voltage Modulation Strategy for Multilevel Cascaded Inverters Under Unbalanced DC Sources. IEEE Transactions on Industrial Electronics, 2014, 61, 625-636.	5.2	68
71	A Hybrid Inductive Power Transfer System With Misalignment Tolerance Using Quadruple-D Quadrature Pads. IEEE Transactions on Power Electronics, 2020, 35, 6039-6049.	5.4	63
72	A 15-kV class intelligent universal transformer for utility applications. , 2016, , .		62

#	Article	IF	Citations
73	Dead time optimization through loss analysis of an active-clamp flyback converter utilizing GaN devices. , 2012, , .		60
74	Cascade dual-boost/buck active-front-end converter for intelligent universal transformer. IEEE Transactions on Industrial Electronics, 2012, 59, 4671-4680.	5.2	60
75	3-D Thermal Component Model for Electrothermal Analysis of Multichip Power Modules With Experimental Validation. IEEE Transactions on Power Electronics, 2015, 30, 3300-3308.	5.4	59
76	Bidirectional DC-DC converter modeling and unified controller with digital implementation. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	54
77	Design considerations for a 48 V fuel cell to split single phase inverter system with ultracapacitor energy storage. , 0, , .		53
78	Effectiveness of harmonic mitigation equipment for commercial office buildings. IEEE Transactions on Industry Applications, 1997, 33, 1104-1110.	3.3	52
79	EMI Characterization and Simulation With Parasitic Models for a Low-Voltage High-Current AC Motor Drive. IEEE Transactions on Industry Applications, 2004, 40, 178-185.	3.3	52
80	A multilevel soft-switching inverter with inductor coupling. IEEE Transactions on Industry Applications, 2001, 37, 628-636.	3.3	48
81	Modeling and Control of a Novel Six-Leg Three-Phase High-Power Converter for Low Voltage Fuel Cell Applications. IEEE Transactions on Power Electronics, 2006, 21, 1292-1300.	5.4	48
82	Grid-Tie Control of Cascade Dual-Buck Inverter With Wide-Range Power Flow Capability for Renewable Energy Applications. IEEE Transactions on Power Electronics, 2012, 27, 1839-1849.	5.4	47
83	An Active Current Reconstruction and Balancing Strategy With DC-Link Current Sensing for a Multi-phase Coupled-Inductor Converter. IEEE Transactions on Power Electronics, 2012, 27, 1697-1705.	5.4	47
84	A Dead-Time Compensation Method for Parabolic Current Control With Improved Current Tracking and Enhanced Stability Range. IEEE Transactions on Power Electronics, 2015, 30, 3892-3902.	5.4	46
85	An induction motor drive using an improved high frequency resonant DC link invertor. IEEE Transactions on Power Electronics, 1991, 6, 504-513.	5.4	45
86	Analysis of conducted EMI emissions from PWM inverter based on empirical models and comparative experiments. , 0, , .		44
87	Magnetic Integration of Three-Phase LCL Filter With Delta-Yoke Composite Core. IEEE Transactions on Power Electronics, 2017, 32, 3835-3843.	5.4	44
88	Costs and benefits of harmonic current reduction for switch-mode power supplies in a commercial office building. IEEE Transactions on Industry Applications, 1996, 32, 1017-1025.	3.3	43
89	A Hybrid-Switch-Based Soft-Switching Inverter for Ultrahigh-Efficiency Traction Motor Drives. IEEE Transactions on Industry Applications, 2014, 50, 1966-1973.	3.3	43
90	A Wide-Range Active and Reactive Power Flow Controller for a Solid Oxide Fuel Cell Power Conditioning System. IEEE Transactions on Power Electronics, 2008, 23, 2703-2709.	5.4	42

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91	An Improved Bridgeless SEPIC Converter Without Circulating Losses and Input-Voltage Sensing. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1447-1455.	3.7	41
92	Modeling and Control of Three-Level Boost Rectifier Based Medium-Voltage Solid-State Transformer for DC Fast Charger Application. IEEE Transactions on Transportation Electrification, 2019, 5, 890-902.	5.3	41
93	Dual-Mode Double-Carrier-Based Sinusoidal Pulse Width Modulation Inverter With Adaptive Smooth Transition Control Between Modes. IEEE Transactions on Industrial Electronics, 2013, 60, 2094-2103.	5.2	40
94	Practical design methodology of auxiliary resonant snubber inverters. , 0, , .		39
95	Bridgeless electrolytic capacitorâ€less valleyâ€fill AC/DC converter for offline Twinâ€Bus lightâ€emitting diode lighting application. IET Power Electronics, 2013, 6, 1132-1141.	1.5	38
96	Iterative Learning Controller With Multiple Phase-Lead Compensation for Dual-Mode Flyback Inverter. IEEE Transactions on Power Electronics, 2017, 32, 6468-6480.	5.4	38
97	Analysis of Diode Reverse Recovery Effect on ZVS Condition for GaN-Based LLC Resonant Converter. IEEE Transactions on Power Electronics, 2019, 34, 11952-11963.	5.4	38
98	Hybrid-Frequency Modulation for PWM-Integrated Resonant Converters. IEEE Transactions on Power Electronics, 2013, 28, 985-994.	5.4	37
99	A high efficiency inverter design for Google little box challenge. , 2015, , .		37
100	High efficiency converter with charge pump and coupled inductor for wide input photovoltaic AC module applications. , 2009, , .		36
101	A Sensorless Implementation of the Parabolic Current Control for Single-Phase Stand-Alone Inverters. IEEE Transactions on Power Electronics, 2016, 31, 3913-3921.	5.4	35
102	Design and Control for LCL-Based Inverters with Both Grid-Tie and Standalone Parallel Operations. , 2008, , .		34
103	A 55-kW Three-Phase Inverter Based on Hybrid-Switch Soft-Switching Modules for High-Temperature Hybrid Electric Vehicle Drive Application. IEEE Transactions on Industry Applications, 2012, 48, 962-969.	3.3	34
104	Ultra high efficiency bidirectional dc-dc converter with multi-frequency pulse width modulation. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	33
105	Dynamic Modeling and Controller Design of Dual-Mode Cuk Inverter in Grid-Connected PV/TE Applications. IEEE Transactions on Power Electronics, 2018, 33, 8887-8904.	5.4	33
106	A High-Efficiency Active-Boost-Rectifier-Based Converter With a Novel Double-Pulse Duty Cycle Modulation for PV to DC Microgrid Applications. IEEE Transactions on Power Electronics, 2019, 34, 7462-7473.	5.4	33
107	Dynamic Performance Improving Sliding-Mode Control-Based Feedback Linearization for PV System Under LVRT Condition. IEEE Transactions on Power Electronics, 2020, 35, 11745-11757.	5.4	33
108	Design of a novel ZVT soft-switching chopper. IEEE Transactions on Power Electronics, 2002, 17, 101-108.	5.4	32

#	Article	IF	Citations
109	Fundamentals of a new family of auxiliary resonant snubber inverters. , 0, , .		30
110	High efficiency transformerless photovoltaic inverter with wide-range power factor capability. , 2012, , .		30
111	High-Efficiency Multiphase DCâ€“DC Converter for Fuel-Cell-Powered Truck Auxiliary Power Unit. IEEE Transactions on Vehicular Technology, 2013, 62, 2421-2429.	3.9	30
112	Impact of automation on the reliability of the Athens Utilities Board's distribution system. IEEE Transactions on Power Delivery, 1989, 4, 770-778.	2.9	29
113	IEEE and international harmonic standards impact on power electronic equipment design. , 0, , .		29
114	Control of electrolyte-free microinverter with improved MPPT performance and grid current quality. , 2014, , .		29
115	Modeling and Controller Design of a Bidirectional Resonant Converter Battery Charger. IEEE Access, 2018, 6, 23338-23350.	2.6	29
116	Optimized Active Disturbance Rejection Control With Resonant Extended State Observer for Grid Voltage Sensorless LCL-Filtered Inverter. IEEE Transactions on Power Electronics, 2021, 36, 13317-13331.	5.4	29
117	Optimum harmonic reduction with a wide range of modulation indexes for multilevel converters. , 0, , .		28
118	A Synchronous Rectification Featured Soft-Switching Inverter Using CoolMOS. , 0, , .		27
119	Cascaded Dual-Buck Inverter With Reduced Number of Inductors. IEEE Transactions on Power Electronics, 2018, 33, 2847-2856.	5.4	27
120	Circuit Design Considerations for Reducing Parasitic Effects on GaN-Based 1-MHz High-Power-Density High-Step-Up/Down Isolated Resonant Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 695-705.	3.7	27
121	PWM Resonant Converter With Asymmetric Modulation for ZVS Active Voltage Doubler Rectifier and Forced Half Resonance in PV Application. IEEE Transactions on Power Electronics, 2020, 35, 508-521.	5.4	27
122	Analysis of harmonic mitigation methods for building wiring systems. IEEE Transactions on Power Systems, 1998, 13, 890-897.	4.6	26
123	Modeling-based examination of conducted EMI emissions from hard- and soft-switching PWM inverters. , 0, , .		26
124	A High-Efficiency 5-kW Soft-Switched Power Conditioning System for Low-Voltage Solid Oxide Fuel Cells. , 2007, , .		26
125	High-efficiency grid-connected photovoltaic module integrated converter system with high-speed communication interfaces for small-scale distribution power generation. Solar Energy, 2010, 84, 636-649.	2.9	26
126	An Operation Mode Selection Method of Dual-Side Bridge Converters for Efficiency Optimization in Inductive Power Transfer. IEEE Transactions on Power Electronics, 2020, 35, 9992-9997.	5.4	26

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127	Analysis and parameters optimization of a contactless IPT system for EV charger. , 2014, , .		25
128	APWM adapted halfâ€bridge LLC converter with voltage doubler rectifier for improving light load efficiency. Electronics Letters, 2017, 53, 339-341.	0.5	25
129	Three-phase inverter differential mode EMI modeling and prediction in frequency domain. , 0, , .		24
130	High-Power Density Design of a Soft-Switching High-Power Bidirectional DC-DC Converter. , 0, , .		24
131	Variable Timing Control for Wide Current Range Zero-Voltage Soft-Switching Inverters. , 2009, , .		24
132	Coordinating cascaded surge protection devices: high-low versus low-high. IEEE Transactions on Industry Applications, 1993, 29, 680-687.	3.3	23
133	Impact of SOFC fuel Cell Source Impedance on Low Frequency AC Ripple. , 0, , .		23
134	High efficiency contactless power transfer system for electric vehicle battery charging. , 2013, , .		23
135	A Modified Bridge Switch-Type Flux-Coupling Nonsuperconducting Fault Current Limiter for Suppression of Fault Transients. IEEE Transactions on Power Delivery, 2018, 33, 2624-2633.	2.9	23
136	A DSP based controller for high-power interleaved boost converters. , 0, , .		22
137	The role of parasitic inductance in high-power planar transformer design and converter integration. , 0, , .		22
138	Aggregated modeling and control of a boost-buck cascade converter for maximum power point tracking of a thermoelectric generator. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	22
139	Design and optimization of 99% CEC efficiency soft-switching photovoltaic inverter. , 2013, , .		22
140	Small-signal modeling of series-series compensated induction power transfer system. , 2014, , .		22
141	A 2-MHz Wide-Input Hybrid Resonant Converter With Ultracompact Planar Coupled Inductor for Low-Power Integrated On-Chip Applications. IEEE Transactions on Industry Applications, 2018, 54, 376-387.	3.3	22
142	Characteristics and utilization of a new class of low on-resistance MOS-gated power device. IEEE Transactions on Industry Applications, 2001, 37, 1282-1289.	3.3	21
143	Solution of input double-line frequency ripple rejection for high-efficiency high-power density string inverter in photovoltaic application. , 2016, , .		21
144	A Novel Pulse-Width Modulation Method for Reactive Power Generation on a CoolMOS- and SiC-Diode-Based Transformerless Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 1539-1548.	5.2	21

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145	A universal-input high-power-factor PFC pre-regulator without electrolytic capacitor for PWM dimming LED lighting application. , 2011, , .		20
146	Low frequency current reduction using a quasi-notch filter operated in two-stage DC-DC-AC grid-connected systems. , 2011, , .		20
147	Design and control of bidirectional resonant converter for Vehicle-to-Grid (V2G) applications. , 2014, , .		20
148	Light-load efficiency improvement for LLC converter with synchronous rectification in solid-state transformer application. , 2018, , .		20
149	Analysis and Design of LLC Converter Considering Output Voltage Regulation Under No-Load Condition. IEEE Transactions on Power Electronics, 2020, 35, 522-534.	5.4	20
150	A Hybrid Modulation Method for Single-Stage Soft-Switching Inverter Based on Series Resonant Converter. IEEE Transactions on Power Electronics, 2020, 35, 5785-5796.	5.4	20
151	A grid-tie battery energy storage system. , 2010, , .		19
152	Characterization and Extraction of Power Loop Stray Inductance With SiC Half-Bridge Power Module. IEEE Transactions on Electron Devices, 2020, 67, 4040-4045.	1.6	19
153	Low-speed performance of robust speed identification using instantaneous reactive power for tacholess vector control of induction motors. , 0, , .		18
154	A High-Performance V6 Converter for Fuel Cell Power Conditioning System. , 0, , .		18
155	AC Output Voltage Control with Minimization of Voltage Stress Across Devices in the Z-Source Inverter Using Modified SVPWM. , 0, , .		18
156	Multiphase Isolated DC-DC Converters for Low-Voltage High-Power Fuel Cell Applications. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	18
157	State-space modeling, analysis, and implementation of paralleled inverters for microgrid applications. , 2010, , .		18
158	A novel power calculation method for droop-control microgrid systems. , 2012, , .		18
159	Inductorless forward-flyback soft-switching converter with dual constant on-time modulation for photovoltaic applications. , 2012, , .		18
160	Design and control of a single-stage large air-gapped transformer isolated battery charger for wide-range output voltage for EV applications. , 2013, , .		18
161	A Hybrid Binary-Cascaded Multilevel Inverter With Simple Floating-Capacitor-Voltage Control. IEEE Transactions on Power Electronics, 2021, 36, 2218-2230.	5.4	18
162	Damping impact on dynamic analysis of LLC resonant converter. , 2014, , .		17

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163	A singleâ€stage integrated bridgeless AC/DC converter for electrolytic capacitorâ€less LED lighting applications. International Journal of Circuit Theory and Applications, 2015, 43, 742-755.	1.3	17
164	Controller and EMI filter design for modular front-end solid-state transformer. , 2018, , .		17
165	Characterization of normally-off SiC vertical JFET devices and inverter circuits. , 0, , .		16
166	Performance of a Distribution Intelligent Universal Transformer under Source and Load Disturbances. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	16
167	A universal battery charging algorithm for Ni-Cd, Ni-MH, SLA, and Li-Ion for wide range voltage in portable applications. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	16
168	High-efficiency bidirectional AC-DC converter for energy storage systems. , 2010, , .		16
169	High-efficiency design of multiphase synchronous mode soft-switching converter for wide input and load range. , 2010, , .		16
170	Control of pseudo-sinusoidal switched reluctance motor with zero torque ripple and reduced input current ripple. , 2013, , .		16
171	Current distortion correction in dual buck photovoltaic inverter with a novel PWM modulation and control method. , 2013, , .		16
172	Spread-Spectrum Frequency Modulation With Adaptive Three-Level Current Scheme to Improve EMI and Efficiency of Three-Level Boost DCM PFC. IEEE Transactions on Power Electronics, 2021, 36, 2476-2480.	5.4	16
173	A novel cascaded multilevel converter drive system with minimum number of separated DC sources. , 0, , .		15
174	A low-inductance DC bus capacitor for high power traction motor drive inverters. , 0, , .		15
175	A universalâ€input highâ€powerâ€factor power supply without electrolytic capacitor for multiple lighting LED lamps. International Journal of Circuit Theory and Applications, 2013, 41, 514-534.	1.3	15
176	A Study on High Frequency Transformer Design in Medium-voltage Solid-state Transformers. , 2018, , .		15
177	Analysis of the Zero-Voltage Switching Condition in LLC Series Resonant Converter with Secondary Parasitic Capacitors. , 2019, , .		15
178	High-Efficiency Asymmetrical Half-Bridge Converter With a New Coupled Inductor Rectifier (CIR). IEEE Transactions on Power Electronics, 2019, 34, 11541-11552.	5.4	15
179	A multilevel soft-switching inverter with inductor coupling. , 0, , .		14
180	Design of Parallel Inverters for Smooth Mode Transfer Microgrid Applications. , 2009, , .		14

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181	A novel bridgeless single-stage half-bridge AC/DC converter. , 2010, , .		14
182	Efficiency evaluation of a 55kW soft-switching module based inverter for high temperature hybrid electric vehicle drives application. , 2010, , .		14
183	A dual-buck based equalizer operating in burst-mode for split phase inverter. , 2013, , .		14
184	A hybrid resonant converter utilizing a bidirectional GaN AC switch for high-efficiency PV applications. , 2014, , .		14
185	A high-efficiency 3.3-kW bidirectional on-board charger. , 2015, , .		14
186	FEM modelling of three-phase common mode choke for performance evaluation. , 2016, , .		14
187	Efficient LLC Resonant Converter With a Simple Hold-Up Time Compensation in Voltage Doubler Rectifier. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 843-850.	3.7	14
188	High efficiency three-phase soft-switching inverter for electric vehicle drives. , 2009, , .		13
189	Enhanced vector tracking observer for rotor position estimation for PMSM drives with low resolution Hall-Effect position sensors. , 2013, , .		13
190	Analysis and design of DCM SEPIC PFC with adjustable output voltage. , 2015, , .		13
191	Output capacitance effect on the voltage gain in the high step-up series resonant converter. , 2015, , .		13
192	Design Optimization of Hybrid-Switch Soft-Switching Inverters Using Multiscale Electrothermal Simulation. IEEE Transactions on Power Electronics, 2017, 32, 503-514.	5.4	13
193	Equivalent circuit model of high power density SiC converter for common-mode conducted emission prediction and analysis. IEEE Electromagnetic Compatibility Magazine, 2019, 8, 67-74.	0.1	13
194	Practical Model Reduction Methods. IEEE Transactions on Industrial Electronics, 1987, IE-34, 70-77.	5.2	12
195	Analysis of polyphase brushless exciter. IEEE Transactions on Industry Applications, 2001, 37, 1720-1726.	3.3	12
196	Small-signal modeling and control for PWM control of switched reluctance motor drives. , 0, , .		12
197	Current Phase Lead Compensation in Single-Phase PFC Boost Converters with a Reduced Switching Frequency to Line Frequency Ratio. , 0, , .		12
198	50kVA Regenerative Active load for power test system. , 2007, , .		12

#	Article	IF	Citations
199	Wide range active and reactive power flow controller for a solid oxide fuel cell power conditioning system. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	12
200	Single-switch three-level boost converter for PWM dimming LED lighting. , 2011, , .		12
201	Cascade dual-buck full-bridge inverter with hybrid PWM technique. , 2012, , .		12
202	A family of single-phase transformerless inverters with asymmetric phase-legs. , 2015, , .		12
203	A high-efficiency hybrid series resonant DC-DC converter with boost converter as secondary for photovoltaic applications. , 2015, , .		12
204	High-voltage GaN HEMT evaluation in micro-inverter applications. , 2015, , .		12
205	A Parabolic Voltage Control Strategy for Burst Mode Converters with Constant Burst Frequency and Eliminated Audible Noise. IEEE Transactions on Power Electronics, 2016, , 1-1.	5.4	12
206	A modular front-end medium-voltage solid-state transformer. , 2017, , .		12
207	An investigation on zero-voltage-switching condition in synchronous-conduction-mode buck converter. , 2017, , .		12
208	Bridgeless Cuk-Derived Single Power Conversion Inverter With Reactive-Power Capability. IEEE Transactions on Power Electronics, 2020, 35, 2629-2645.	5.4	12
209	Average Periodic Delay-Based Frequency Adaptable Repetitive Control With a Fixed Sampling Rate and Memory of Single-Phase PFC Converters. IEEE Transactions on Power Electronics, 2021, 36, 6572-6585.	5.4	12
210	Fixed-Frequency Hybrid Conduction Mode Control for Three-Level Boost PFC Converter. IEEE Transactions on Power Electronics, 2021, 36, 8334-8346.	5.4	12
211	Common-mode components comparison for different SVM schemes in three-phase four-legged converter. , 0, , .		11
212	Modeling and control of a novel six-leg three-phase high-power converter for low voltage fuel cell applications. , 0, , .		11
213	Inverter Dynamic Electro-Thermal Modeling and Simulation with Experimental Verification. , 0, , .		11
214	Design of high-efficiency bidirectional DC-DC converter and high-precision efficiency measurement. , 2008, , .		11
215	Derivation of boost-buck converter based high-efficiency robust PV inverter. , 2010, , .		11
216	Performance evaluation of high voltage super junction MOSFETs for zero-voltage soft-switching inverter applications. , 2010, , .		11

#	Article	IF	Citations
217	An easy, simple, and flexible control scheme for a three-phase grid-tie inverter system. , 2010, , .		11
218	High efficiency DC-DC converter with twin-bus for dimmable LED lighting. , 2010, , .		11
219	High boost ratio hybrid transformer DC-DC converter for photovoltaic module applications. , 2012, , .		11
220	Hybrid transformer ZVS/ZCS DC-DC converter for photovoltaic microinverters. , 2013, , .		11
221	An improved bridgeless SEPIC PFC rectifier with optimized magnetic utilization, minimized circulating losses, and reduced sensing noise. , 2013, , .		11
222	A capacitor voltage balancing method with zero-voltage switching for split phase inverter. , 2014, , .		11
223	Design optimization for ultrahigh efficiency buck regulator using wide bandgap devices. , 2015, , .		11
224	Implementation of parabolic current control for dual-carrier PWM. , 2015, , .		11
225	Input Voltage Range Extension Methods in the Series-Resonant DC-DC Converters. , 2019, , .		11
226	Digital-Based Critical Conduction Mode Control for Three-Level Boost PFC Converter. IEEE Transactions on Power Electronics, 2020, 35, 7689-7701.	5.4	11
227	Channel Turn-Off Energy Model for Zero-Voltage-Switching Wide Bandgap Devices. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4016-4025.	3.7	11
228	Quad Sampling Incremental Inductance Measurement Through Current Loop for Switched Reluctance Motor. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4251-4257.	2.4	11
229	Unified Voltage Balancing Feedforward for Three-Level Boost PFC Converter in Discontinuous and Critical Conduction Modes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 441-445.	2.2	11
230	A novel two-quadrant soft-switching converter with one auxiliary switch for high-power applications. IEEE Transactions on Industry Applications, 2000, 36, 1388-1395.	3.3	10
231	A 20-kW, 10-kHz, Single-Phase Multilevel Active-Front-End Converter with Reactive Power Control. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	10
232	Modeling the inter-electrode capacitances of Si CoolMOS transistors for circuit simulation of high efficiency power systems. , 2010, , .		10
233	A high-frequency high-step-down converter with coupled inductor for low power applications. , 2017, , .		10
234	Single inductor dual buckâ€boost inverter based on halfâ€cycle PWM scheme with active clamping devices. IET Power Electronics, 2019, 12, 1011-1020.	1.5	10

#	Article	IF	Citations
235	An improved three-phase auxiliary resonant snubber inverter for AC motor drive applications. , 0, , .		9
236	Characterization of paralleled super junction MOSFET devices under hardand soft-switching conditions. , 0, , .		9
237	Analysis of a traction induction motor drive operating under maximum efficiency and maximum torque per ampere conditions. , 0, , .		9
238	Current Loop Control with Admittance Compensation for a Single-Phase Grid-Tie Fuel Cell Power Conditioning System. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	9
239	High Temperature Device Characterization for Hybrid Electric Vehicle Traction Inverters. , 2009, , .		9
240	Switched reluctance motor without torque ripple or electrolytic capacitors. , 2011, , .		9
241	A novel SEPIC-derived PFC pre-regulator without electrolytic capacitor for PWM dimming LED lighting application based on valley fill circuit. , 2011, , .		9
242	New overall control strategy for wind energy conversion systems in MPPT and stall regions. , 2013, , .		9
243	Analysis of a Shunt Wyeâ€“Delta Transformer for Multi-Generator Harmonic Elimination Under Non-Ideal Phase-Shift Conditions. IEEE Transactions on Industry Applications, 2019, 55, 2412-2420.	3.3	9
244	Design and Analysis of High-Voltage Blocking in Drainâ€“Source Synchronous Rectifier Controllers for kV Operation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4406-4415.	3.7	9
245	A novel load adaptive zero voltage switching utilizing diode reverse recovery current for soft-switching choppers and inverters. , 0, , .		8
246	A Thermally Dependent Fuel Cell Model for Power Electronics Design. , 0, , .		8
247	Admittance Compensation in Current Loop Control for a Grid-Tie LCL Fuel Cell Inverter. , 2007, , .		8
248	A General-Purpose Three-Phase DC-DC Converter Building Block for Fuel Cell Applications. , 2007, , .		8
249	Novel bidirectional ac-dc MOSFET converter for energy storage system applications. , 2011, , .		8
250	An optimization design for 5-kW centralized PV inverter to achieve 99% efficiency. , 2013, , .		8
251	A high efficiency hybrid resonant PWM zero-voltage-switching full-bridge DC-DC converter for electric vehicle battery chargers. , 2013, , .		8
252	Analysis of the Admittance Component for Digitally Controlled Single-Phase Bridgeless PFC Converter. Journal of Power Electronics, 2013, 13, 600-608.	0.9	8

#	Article	IF	Citations
253	Interleaved auxiliary resonant snubber for high-power, high-density applications. , 2016, , .		8
254	A Novel Dynamic Ramp Valley Control in a Current-Mode Adaptive On-Time Controller for the On-Chip Buck Converter. IEEE Transactions on Power Electronics, 2019, 34, 5830-5841.	5.4	8
255	H₂/Hâˆž Robust Observed-State Feedback Control Based on Slack LMI-LQR for LCL-Filtered Inverters. IEEE Transactions on Industrial Electronics, 2023, 70, 4785-4798.	5.2	8
256	Switching characteristics of NPT- and PT-IGBTs under zero-voltage switching conditions. , 0, , .		7
257	Efficiency design considerations for a wide-range operated high-power soft-switching inverter. , 2005, , .		7
258	Modeling and control of charge-pumped reboost converter for pv applications. , 2010, , .		7
259	Phase lock loop design and novel test schemes for islanding detection. , 2011, , .		7
260	Modeling and control of a high boost ratio PV module DC-DC converter with double grid-line ripple rejection. , 2013, , .		7
261	A high-efficiency single-phase bidirectional AC-DC converter with miniminized common mode voltages for battery energy storage systems. , 2013, , .		7
262	A high efficiency and reliability single-phase photovoltaic micro-inverter with high magnetics utilization for nonisolated AC-module applications. , 2013, , .		7
263	A high-efficiency on-board charger utilitzing a hybrid LLC and phase-shift DC-DC converter. , 2014, , .		7
264	A shunt-connected phase-shift transformer for shipboard harmonics eliminating rectifiers. , 2016, , .		7
265	Dual buck-boost inverter. , 2017, , .		7
266	Bidirectional Single-Inductor Dual-Supply Converter With Automatic State-Transition for IoT Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4068-4078.	3.5	7
267	Analytical Factorized Model for Stability Analysis and Optimization of Shunt RC Damped LCL Filter for Grid-Connected Voltage Source Inverters. IEEE Transactions on Power Electronics, 2020, 35, 6830-6841.	5.4	7
268	Design Principles and Optimization Considerations of a High Frequency Transformer in GaN Based 1 MHz 2.8 kW LLC Resonant Converter with over 99% Efficiency. , 2021, , .		7
269	Characterization of power electronics system interconnect parasitics using time domain reflectometry. , 0, , .		6
270	Characterization of HV-IGBT for high-power inverter applications. , 0, , .		6

#	Article	IF	Citations
271	An Improved Zero-Voltage-Switching Inverter Using Two Coupled Magnetics In One Resonant Pole. , 2009, , .		6
272	Design of a photovoltaic simulator with a novel reference signal generator and two-stage LC output filter. , 2009, , .		6
273	An active current reconstruction and balancing strategy with DC-link current sensing for a multi-phase coupled-inductor converter. , 2010, , .		6
274	Z-domain modeling and control design of single-switch bridgeless SEPIC PFC converter with damping circuit. , 2013, , .		6
275	Design considerations of LLC resonant converter for contactless laptop charger. , 2015, , .		6
276	A capacitor current control for stand-alone inverters using an inductor current observer. , 2015, , .		6
277	Sequential Parallel Switching for Drain-Source Synchronous Rectifier Efficiency and Light-Load Stability Improvement. , 2019, , .		6
278	Down-Sampled Repetitive Controller for Grid-Connected Ä†uk CCM Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1125-1137.	3.7	6
279	An Accurate Voltage Gain Model Considering Diode Effect for LLC Resonant Converter in Wide Gain Range Applications. , 2020, , .		6
280	Optimal system efficiency operation of an induction motor drive. , 0, , .		5
281	EMI characterization with parasitic modeling for a permanent magnet motor drive. , 0, , .		5
282	A novel three-phase high-power soft switched DC/DC converter for low voltage fuel cell applications. , 0, , .		5
283	Analytical evaluation of modulation effect on three-phase inverter differential mode noise prediction. , 0, , .		5
284	High-efficiency grid-connected photovoltaic module integrated converter system. , 2009, , .		5
285	Single-switch three-level DC-DC converters for dimmable LED lighting. , 2011, , .		5
286	Utility grid impact with high penetration PV micro-inverters operating under burst mode using simplified simulation model. , 2011, , .		5
287	Control of induction machine with extended range of maximum torque capbility for traction drives. , 2011, , .		5
288	A dead-time compensation method for parabolic current control with improved current tracking precision. , 2014, , .		5

#	Article	IF	Citations
289	Single-Step Current Control for Voltage Source Inverters With Fast Transient Response and High Convergence Speed. IEEE Transactions on Power Electronics, 2017, 32, 8823-8832.	5.4	5
290	Derivation of DCM/CCM Boundary and Ideal Duty-Ratio Feedforward for Three-level Boost Rectifier. , 2019, , .		5
291	Optimal Design Methodology for High Frequency GaN Based Step-up LLC Resonant Converter. , 2019, , .		5
292	A New Method of Switching Loss Evaluation for GaN HEMTs in Half-Bridge Configuration. , 2020, , .		5
293	Matrix Inductor With DC-Bias Effect Reduction Capability for GaN-Based DC-DC Boost Converter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2597-2601.	2.2	5
294	Bridgeless Hybrid-Mode Zeta-Based Inverter: Dynamic Modeling and Control. IEEE Transactions on Power Electronics, 2021, 36, 7233-7249.	5.4	5
295	Output Regulation With Integrated SR Switch Duty Cycle Control for Wireless Power Transfer Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3161-3169.	3.7	5
296	Digital Control Strategy for Single-phase Voltage-Doubler Boost Rectifiers. Journal of Power Electronics, 2012, 12, 623-631.	0.9	5
297	Fourâ€phase interleaved TCM DCâ€DC buck converter with matrix inductor in battery charging application. IET Power Electronics, 2021, 14, 132-139.	1.5	5
298	A Hybrid Binary Multilevel Cascaded Inverter for Medium-Voltage Applications. , 2021, , .		5
299	A MHz LCLCL Resonant Converter Based Single-Stage Soft-Switching Isolated Inverter With Variable Frequency Modulation. IEEE Transactions on Power Electronics, 2022, 37, 10797-10807.	5.4	5
300	A novel two-quadrant soft-switching converter with one auxiliary switch for high power applications. , 0, , .		4
301	Grid synchronization control without AC voltage sensors. , 0, , .		4
302	Inverter EMI modeling and simulation methodologies. , 0, , .		4
303	Simple ZVT PWM Single-Phase Rectifier with Reduced Conduction Loss and Unity Power Factor. , 0, , .		4
304	Reactive Power Control Realizations in Single-Phase Active-Front-End Converters. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	4
305	A Family of Novel Zero-Voltage and Zero-Current Switching Full Bridge Converters Using Output Voltage Reset for Fuel Cell Application. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq1 1 0.784314 rgBT /Overlock 10		4
306	A digital single-loop control of multi-phase dc-dc converter for fuel cell powered truck auxiliary power unit. , 2011, , .		4

#	Article	IF	Citations
307	Hybrid half- and full-bridge converter with high efficiency and full soft-switching range. , 2011, , .		4
308	Modeling, analysis, and implementation of a photovoltaic grid-tie inverter system. , 2012, , .		4
309	Design considerations to reduce gap variation and misalignment effects for inductive power transfer system. , 2014, , .		4
310	Asymmetrical loosely coupled transformer for wireless laptop charger with higher misalignment tolerance. , 2015, , .		4
311	Modeling and control of a wide-input hybrid resonant microconverter for photovoltaic applications. , 2016, , .		4
312	Design of a state-space controller employing a deadbeat state observer for ups inverters. , 2017, , .		4
313	Position Sensorless Control of Switched Reluctance Motor Drives Without Pre-stored Magnetic Characteristics. , 2018, , .		4
314	Analysis of Harmonic Cancellation Performance of a Shunt Phase-Shift Transformer Rectifier. , 2018, , .		4
315	Synchronous Rectifier Design Considerations for Solid-State Transformer Light-Load Stability. , 2018, , .		4
316	A new control method for series resonant inverter with inherently phase-locked coil current with induction cookware applications. , 2018, , .		4
317	Low Noise ZVS Switch Sharing Multichannel Switching Amplifier for Magnetic Bearing Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1999-2003.	2.2	4
318	Drain-Source Synchronous Rectifier Oscillation Mitigation in Light-Load Conditions. IEEE Open Journal of Power Electronics, 2020, 1, 14-23.	4.0	4
319	Power conditioning systems for renewable energies. , 2007, , .		4
320	Small-Signal Modeling of Three-Level Boost Rectifier and System Design for Medium-Voltage Solid-State Transformer. , 2019, , .		4
321	A MHz LLC Converter Based Single-Stage Soft-Switching Isolated Inverter with Hybrid Modulation Method. , 2021, , .		4
322	Light Load Operation Analysis for MHz GaN Based LLC Resonant Converter. , 2020, , .		4
323	Active Compensation of the Input Filter Capacitor Current in Single-Phase PFC Boost Converters. , 2006, , .		3
324	Characterization of a Multilevel HV-IGBT Module for Distribution Applications. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	3

#	Article	IF	Citations
325	Unified pulse width modulated three-phase four-leg inverter based on dual-buck power cell. , 2012, , .		3
326	High efficiency isolated DC-DC converter combining resonant and phase-shifted topologies for electrical vehicle chargers. , 2013, , .		3
327	A parabolic voltage control strategy for burst mode converters with constant burst frequency and eliminated audible noise. , 2015, , .		3
328	Torque ripple and acoustic noise of current modulations of a pseudo-sinusoidal switched reluctance motor. , 2016, , .		3
329	A parabolic current control based digital current control strategy for high switching frequency voltage source inverters. , 2016, , .		3
330	Nonisolated Two-Channel LED Driver with Simple Snubber. , 2018, , .		3
331	Analysis and Design of a Novel High Step-Down DC-DC Converter for Battery Applications. , 2018, , .		3
332	Design of Repetitive Controller and Input Filter for Active Front-End Rectifier in Solid-State Transformer Under Finite Harmonics and Source Impedance. , 2018, , .		3
333	Asymmetrical Half-Bridge Converter With Zero DC-offset Current in Transformer Using New Rectifier Structure. , 2018, , .		3
334	A PWM Controlled Active Boost Quadrupler Resonant Converter for High Step-Up Application. , 2019, , .		3
335	Design of Bidirectional DC-DC Converter for Energy Storage System in High Power Application. , 2019, , .		3
336	Drain-Source Synchronous Rectification Efficiency and Light-Load Stability Improvement through Multi-Level Turn-Off for LLC-based DC-DC Converters. , 2019, , .		3
337	Sequential Waveform Synthesis for Multimodular SRC-Unfolding Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5771-5780.	3.7	3
338	A T-type dual active bridge with symmetrical configuration for solid state transformer. International Journal of Electronics, 2021, 108, 2019-2038.	0.9	3
339	Resonant snubber based soft-switching inverters for electric propulsion drives. , 0, , .		2
340	Low-speed performance comparison of induction motor sensorless control methods. , 0, , .		2
341	New start-up schemes for isolated full-bridge boost converters. , 0, , .		2
342	A high performance amplitude/phase modulated digital-to-synchro switching power converters. IEEE Transactions on Power Electronics, 2003, 18, 509-516.	5.4	2

#	Article	IF	Citations
343	Low Frequency Current Ripple Reduction Technique with Active Control in a Fuel Cell Power System with Inverter Load. , 0, , .		2
344	A Seamless Mode Transfer Maximum Power Point Tracking Controller for Thermoelectric Generator Applications. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	2
345	A Family of Novel Zero-Voltage and Zero-Current Switching Full Bridge Converters Using Output Voltage Reset for Fuel Cell Application. Conference Record - IAS Annual Meeting (IEEE Industry) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.0	2
346	Low cost universal battery charger for wide range input voltage and wide range output voltage in portable applications. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	2
347	Adaptive frequency control for ZVS synchronous boost converters operated in average current mode. , 2010, , .		2
348	A hybrid switching scheme for LLC series-resonant half-bridge dc-dc converter in a wide load range. , 2010, , .		2
349	A smooth transition method between position sensorless control algorithms of PM machines. , 2011, , .		2
350	Fuzzy logic maximum power point tracking control for PV inverter. , 2012, , .		2
351	Bridgeless electrolytic capacitor-less valley fill AC/DC converter for twin-bus type LED lighting applications. , 2013, , .		2
352	Sensorless adaptive control of resonant snubber inverter for photovoltaic applications. , 2014, , .		2
353	A novel magnetic reset zero-voltage soft-switching inverter with improved magnetic coupling method. , 2014, , .		2
354	Design and control of battery charger for portable human powered generator. , 2014, , .		2
355	A MOSFET transformerless inverter with reactive power capability for micro-inverter applications. , 2015, , .		2
356	A sensorless parabolic current control method for single phase standalone inverters. , 2015, , .		2
357	SSTS-based soft transfer control method of motor load under different residual voltage condition. , 2015, , .		2
358	Analysis and design of coupled inductor and output harmonic filter for interleaved three phase VSCs. , 2016, , .		2
359	Multi-domain design of inverter-side inductor for LCL filter with 50kW 60 kHz high power density converter. , 2017, , .		2
360	A MHz zero voltage switching (ZVS) tapped-inductor buck converter for wide-input high step-down low-power applications. , 2017, , .		2

#	Article	IF	Citations
361	System for load levelling control and operation of an energy storage system. IET Power Electronics, 2017, 10, 739-745.	1.5	2
362	A GaN-Based High-Efficiency Solar Optimizer with Reduced Number of Power Devices. , 2018, , .		2
363	Analysis of a Shunt Phase-Shift Transformer for Multi-Generator Harmonic Elimination. , 2018, , .		2
364	Switching Devices Comparison and RC Snubber for Ringing Suppression in one Single Leg T-type Converter. , 2018, , .		2
365	Small-Signal Modeling and Speed Controller Design for Switched Reluctance Motor Drives. , 2018, , .		2
366	A Comprehensive Comparison of MHz GaN-Based ZVS Step-Down Converters for Low Power Integrated On-Chip Applications. , 2018, , .		2
367	Dual-Loop Control for Synchronous-Conduction-Mode Tapped-Inductor Buck Converter. , 2019, , .		2
368	Optimization of PCB Layout for 1-MHz High Step-Up/Down LLC Resonant Converters. , 2019, , .		2
369	High-Frequency Transformer Design for LLC Resonant Converter with High Insulation Capability. , 2019, , .		2
370	Design Considerations for MHz PCB Winding Magnetic Components. , 2019, , .		2
371	A Hybrid Front-end for Multi-Generator Power System Harmonic Elimination. , 2019, , .		2
372	Control Strategy of Single-Phase Hybrid-Mode Ätuk Inverter for LVRT Capability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3917-3932.	3.7	2
373	Cyclically Adaptive Multilevel Gate Driving for Drain-Source Synchronous Rectifier Efficiency Improvement and Range Extension. , 2020, , .		2
374	Analysis on the Effect of Secondary Side Devices for the Operation of GaN Based LLC Resonant Converter. , 2020, , .		2
375	Sequential Parallel Switching for Drain-Source Synchronous Rectification Efficiency Boost in Parallel Switch Rectifiers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2637-2641.	2.2	2
376	Dual-Loop-Controlled Coupled-Inductor Buck Converter in Low-Power Applications. IEEE Open Journal of Power Electronics, 2020, 1, 24-33.	4.0	2
377	Wide Range Series Resonant DC-DC Converter with a Reduced Component Count and Capacitor Voltage Stress for Distributed Generation. Energies, 2021, 14, 2051.	1.6	2
378	Phase Current Reconstruction Techniques for Two-Phase Inverters using a Single Current Sensor. Journal of Power Electronics, 2011, 11, 837-845.	0.9	2

#	Article	IF	Citations
379	Load Disturbance Compensation for Stand-alone Inverters Using an Inductor Current Observer. Journal of Power Electronics, 2017, 17, 389-397.	0.9	2
380	Hybrid-Mode Cuk Inverter with Low-Voltage Ride-Through Capability Under Grid-Faults. , 2019, , .		2
381	A novel load adaptive zero voltage switching utilizing diode reverse recovery current for soft-switching choppers. , 0, , .		1
382	Characterization and modeling of silicon-carbide power devices. , 0, , .		1
383	A high performance amplitude/phase modulated digital-to-synchro switching power converters using ADMC401 DSP. , 0, , .		1
384	Thermal interface void reduction techniques for direct-soldered power modules. , 0, , .		1
385	Power electronics applications in renewable energy systems. , 0, , .		1
386	A Seamless Mode Transfer Maximum Power Point Tracking Controller for Thermoelectric Generator Applications. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2007, , .	0.0	1
387	Optimal design of adaptive maximum-power-point tracking algorithm for thermoelectric based battery energy storage system. , 2008, , .		1
388	High speed thermal coupling measurements for multichip electro-thermal model validation. , 2013, , .		1
389	A normalized digital compensator for variable frequency PWM. , 2013, , .		1
390	Test and analysis of 3kW PV battery energy storage system. , 2015, , .		1
391	Priority based current control design in high speed sensorless PMSM drives. , 2015, , .		1
392	A triangle phase-shift control strategy for interleaved critical-mode power converters. , 2016, , .		1
393	Forward-flyback converter for LED driving with reduced number of components. , 2017, , .		1
394	Improving the Transient Response of Voltage-Mode Controller with the Ripple-Based Circuit for an On-Chip Buck Converter. , 2018, , .		1
395	Design Approach to Achieve Fast Transient Response for Current-Mode Adaptive On-Time Control Circuit of an On-Chip Buck Converter. , 2018, , .		1
396	Digital compensator design for high-frequency hybrid resonant buck converter. , 2018, , .		1

#	Article	IF	Citations
397	Memory Space Adjustable Repetitive Controller Design for Isolated Cuk Inverter. , 2019, , .		1
398	Stacking Approach for Multiple Hybrid Binary Cascaded Multilevel Converter Modules with Reduced Scalability Complexity. , 2022, , .		1
399	Effectiveness of harmonic mitigation equipment for commercial office buildings. , 0, , .		0
400	EMI characterization and simulation with parasitic models for a low-voltage high current AC motor drive. , 0, , .		0
401	Direct-Soldered Mounting Inverter Modules for Traction Motor Drivesâ€*. , 2002, , .		0
402	A novel phase-shifting circuit using digital first-in first-out (FIFO) for multiphase power converter interleaved control. , 0, , .		0
403	Advanced SiC Power Modules for 13.8â€ƒkV Power Distribution. Naval Engineers Journal, 2007, 119, 65-72.	0.1	0
404	A hybrid switch based soft-switching inverter for ultrahigh efficiency traction motor drives. , 2012, , .		0
405	IFEC 2013 Breaks Records for Participation: A Summary of the Competition Results. IEEE Power Electronics Magazine, 2014, 1, 28-31.	0.6	0
406	Multi-mode controlled push-pull boost power factor corrector. , 2015, , .		0
407	A Novel Auxiliary Resonant Snubber Inverter Using Wide Bandgap Devices. , 2019, , .		0
408	Three-Level Boost Converter With CRM Operation. , 2020, , .		0
409	DSP-Based Switched Reluctance Motor Incremental Inductance Measurement through Current Loop. , 2019, , .		0
410	3-Phase Back to Back Active Power Filter for a Multi-Generator Power System with Reduced dc-link Capacitor. , 2021, , .		0
411	A MHz LCLCL Resonant Converter Based Single-Stage Soft-Switching Isolated Inverter with Variable Frequency Modulation. , 2022, , .		0