

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	H ₂ /H [∞] 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
2	Down-Sampled Repetitive Controller for Grid-Connected Ąuk CCM Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1125-1137.	3.7	6
3	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
4	A MHz LCL 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
5	A MHz LCL Resonant Converter Based Single-Stage Soft-Switching Isolated Inverter with Variable Frequency Modulation. , 2022, , .		0
6	Stacking Approach for Multiple Hybrid Binary Cascaded Multilevel Converter Modules with Reduced Scalability Complexity. , 2022, , .		1
7	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
8	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
9	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
10	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
11	A Hybrid Binary-Cascaded Multilevel Inverter With Simple Floating-Capacitor-Voltage Control. IEEE Transactions on Power Electronics, 2021, 36, 2218-2230.	5.4	18
12	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
13	Bridgeless Hybrid-Mode Zeta-Based Inverter: Dynamic Modeling and Control. IEEE Transactions on Power Electronics, 2021, 36, 7233-7249.	5.4	5
14	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
15	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
16	Fixed-Frequency Hybrid Conduction Mode Control for Three-Level Boost PFC Converter. IEEE Transactions on Power Electronics, 2021, 36, 8334-8346.	5.4	12
17	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
18	A T-type dual active bridge with symmetrical configuration for solid state transformer. International Journal of Electronics, 2021, 108, 2019-2038.	0.9	3

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19	Four-phase interleaved TCM DC-DC buck converter with matrix inductor in battery charging application. IET Power Electronics, 2021, 14, 132-139.	1.5	5
20	3-Phase Back to Back Active Power Filter for a Multi-Generator Power System with Reduced dc-link Capacitor. , 2021, , .		0
21	A Hybrid Binary Multilevel Cascaded Inverter for Medium-Voltage Applications. , 2021, , .		5
22	A MHz LLC Converter Based Single-Stage Soft-Switching Isolated Inverter with Hybrid Modulation Method. , 2021, , .		4
23	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
24	Analysis and Design of <i>LLC</i> Converter Considering Output Voltage Regulation Under No-Load Condition. IEEE Transactions on Power Electronics, 2020, 35, 522-534.	5.4	20
25	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
26	Bridgeless Cuk-Derived Single Power Conversion Inverter With Reactive-Power Capability. IEEE Transactions on Power Electronics, 2020, 35, 2629-2645.	5.4	12
27	Control Strategy of Single-Phase Hybrid-Mode Ąuk Inverter for LVRT Capability. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3917-3932.	3.7	2
28	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
29	Design and Analysis of High-Voltage Blocking in Drain-Source Synchronous Rectifier Controllers for kV Operation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4406-4415.	3.7	9
30	Digital-Based Critical Conduction Mode Control for Three-Level Boost PFC Converter. IEEE Transactions on Power Electronics, 2020, 35, 7689-7701.	5.4	11
31	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
32	Analytical Factorized Model for Stability Analysis and Optimization of Shunt <i>RC</i> Damped <i>LCL</i> Filter for Grid-Connected Voltage Source Inverters. IEEE Transactions on Power Electronics, 2020, 35, 6830-6841.	5.4	7
33	Cyclically Adaptive Multilevel Gate Driving for Drain-Source Synchronous Rectifier Efficiency Improvement and Range Extension. , 2020, , .		2
34	Three-Level Boost Converter With CRM Operation. , 2020, , .		0
35	A New Method of Switching Loss Evaluation for GaN HEMTs in Half-Bridge Configuration. , 2020, , .		5
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Analysis on the Effect of Secondary Side Devices for the Operation of GaN Based LLC Resonant Converter. , 2020, , .		2
40	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
41	Drain-Source Synchronous Rectifier Oscillation Mitigation in Light-Load Conditions. IEEE Open Journal of Power Electronics, 2020, 1, 14-23.	4.0	4
42	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
43	Dual-Loop-Controlled Coupled-Inductor Buck Converter in Low-Power Applications. IEEE Open Journal of Power Electronics, 2020, 1, 24-33.	4.0	2
44	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
45	An Accurate Voltage Gain Model Considering Diode Effect for LLC Resonant Converter in Wide Gain Range Applications. , 2020, , .		6
46	Light Load Operation Analysis for MHz GaN Based LLC Resonant Converter. , 2020, , .		4
47	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
48	Derivation of DCM/CCM Boundary and Ideal Duty-Ratio Feedforward for Three-level Boost Rectifier. , 2019, , .		5
49	Memory Space Adjustable Repetitive Controller Design for Isolated Cuk Inverter. , 2019, , .		1
50	A PWM Controlled Active Boost Quadrupler Resonant Converter for High Step-Up Application. , 2019, , .		3
51	Single inductor dual buck-boost inverter based on half-cycle PWM scheme with active clamping devices. IET Power Electronics, 2019, 12, 1011-1020.	1.5	10
52	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
53	Dual-Loop Control for Synchronous-Conduction-Mode Tapped-Inductor Buck Converter. , 2019, , .		2
54	Sequential Parallel Switching for Drain-Source Synchronous Rectifier Efficiency and Light-Load Stability Improvement. , 2019, , .		6

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55	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
56	Optimization of PCB Layout for 1-MHz High Step-Up/Down LLC Resonant Converters. , 2019, , .		2
57	Analysis of the Zero-Voltage Switching Condition in LLC Series Resonant Converter with Secondary Parasitic Capacitors. , 2019, , .		15
58	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
59	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
60	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
61	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
62	Efficient <i>LLC</i> 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
63	Analysis of a Shunt Wye- Δ Transformer for Multi-Generator Harmonic Elimination Under Non-Ideal Phase-Shift Conditions. IEEE Transactions on Industry Applications, 2019, 55, 2412-2420.	3.3	9
64	High-Frequency Transformer Design for LLC Resonant Converter with High Insulation Capability. , 2019, , .		2
65	Input Voltage Range Extension Methods in the Series-Resonant DC-DC Converters. , 2019, , .		11
66	Design Considerations for MHz PCB Winding Magnetic Components. , 2019, , .		2
67	Optimal Design Methodology for High Frequency GaN Based Step-up LLC Resonant Converter. , 2019, , .		5
68	Design of Bidirectional DC-DC Converter for Energy Storage System in High Power Application. , 2019, , .		3
69	Drain-Source Synchronous Rectification Efficiency and Light-Load Stability Improvement through Multi-Level Turn-Off for LLC-based DC-DC Converters. , 2019, , .		3
70	A Hybrid Front-end for Multi-Generator Power System Harmonic Elimination. , 2019, , .		2
71	A Novel Auxiliary Resonant Snubber Inverter Using Wide Bandgap Devices. , 2019, , .		0
72	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

#	ARTICLE	IF	CITATIONS
73	Hybrid-Mode Cuk Inverter with Low-Voltage Ride-Through Capability Under Grid-Faults. , 2019, , .		2
74	Small-Signal Modeling of Three-Level Boost Rectifier and System Design for Medium-Voltage Solid-State Transformer. , 2019, , .		4
75	DSP-Based Switched Reluctance Motor Incremental Inductance Measurement through Current Loop. , 2019, , .		0
76	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
77	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
78	Modeling and Controller Design of a Bidirectional Resonant Converter Battery Charger. IEEE Access, 2018, 6, 23338-23350.	2.6	29
79	Controller and EMI filter design for modular front-end solid-state transformer. , 2018, , .		17
80	Light-load efficiency improvement for LLC converter with synchronous rectification in solid-state transformer application. , 2018, , .		20
81	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
82	Cascaded Dual-Buck Inverter With Reduced Number of Inductors. IEEE Transactions on Power Electronics, 2018, 33, 2847-2856.	5.4	27
83	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
84	Nonisolated Two-Channel LED Driver with Simple Snubber. , 2018, , .		3
85	Position Sensorless Control of Switched Reluctance Motor Drives Without Pre-stored Magnetic Characteristics. , 2018, , .		4
86	Analysis of Harmonic Cancellation Performance of a Shunt Phase-Shift Transformer Rectifier. , 2018, , .		4
87	Analysis and Design of a Novel High Step-Down DC-DC Converter for Battery Applications. , 2018, , .		3
88	A GaN-Based High-Efficiency Solar Optimizer with Reduced Number of Power Devices. , 2018, , .		2
89	Analysis of a Shunt Phase-Shift Transformer for Multi-Generator Harmonic Elimination. , 2018, , .		2
90	Improving the Transient Response of Voltage-Mode Controller with the Ripple-Based Circuit for an On-Chip Buck Converter. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
91	Synchronous Rectifier Design Considerations for Solid-State Transformer Light-Load Stability. , 2018, , .		4
92	Switching Devices Comparison and RC Snubber for Ringing Suppression in one Single Leg T-type Converter. , 2018, , .		2
93	A Study on High Frequency Transformer Design in Medium-voltage Solid-state Transformers. , 2018, , .		15
94	Design of Repetitive Controller and Input Filter for Active Front-End Rectifier in Solid-State Transformer Under Finite Harmonics and Source Impedance. , 2018, , .		3
95	Asymmetrical Half-Bridge Converter With Zero DC-offset Current in Transformer Using New Rectifier Structure. , 2018, , .		3
96	Small-Signal Modeling and Speed Controller Design for Switched Reluctance Motor Drives. , 2018, , .		2
97	A Comprehensive Comparison of MHz GaN-Based ZVS Step-Down Converters for Low Power Integrated On-Chip Applications. , 2018, , .		2
98	Design Approach to Achieve Fast Transient Response for Current-Mode Adaptive On-Time Control Circuit of an On-Chip Buck Converter. , 2018, , .		1
99	A new control method for series resonant inverter with inherently phase-locked coil current with induction cookware applications. , 2018, , .		4
100	Digital compensator design for high-frequency hybrid resonant buck converter. , 2018, , .		1
101	Design Optimization of Hybrid-Switch Soft-Switching Inverters Using Multiscale Electrothermal Simulation. IEEE Transactions on Power Electronics, 2017, 32, 503-514.	5.4	13
102	Magnetic Integration of Three-Phase LCL Filter With Delta-Yoke Composite Core. IEEE Transactions on Power Electronics, 2017, 32, 3835-3843.	5.4	44
103	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
104	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
105	APWM adapted half-bridge LLC converter with voltage doubler rectifier for improving light load efficiency. Electronics Letters, 2017, 53, 339-341.	0.5	25
106	Dual buck-boost inverter. , 2017, , .		7
107	A high-frequency high-step-down converter with coupled inductor for low power applications. , 2017, , .		10
108	Multi-domain design of inverter-side inductor for LCL filter with 50kW 60 kHz high power density converter. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
109	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
110	Fuel Cell Power Systems and Applications. Proceedings of the IEEE, 2017, 105, 2166-2190.	16.4	79
111	A MHz zero voltage switching (ZVS) tapped-inductor buck converter for wide-input high step-down low-power applications. , 2017, , .		2
112	Forward-flyback converter for LED driving with reduced number of components. , 2017, , .		1
113	System for load levelling control and operation of an energy storage system. IET Power Electronics, 2017, 10, 739-745.	1.5	2
114	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
115	Design of a state-space controller employing a deadbeat state observer for ups inverters. , 2017, , .		4
116	A modular front-end medium-voltage solid-state transformer. , 2017, , .		12
117	An investigation on zero-voltage-switching condition in synchronous-conduction-mode buck converter. , 2017, , .		12
118	Load Disturbance Compensation for Stand-alone Inverters Using an Inductor Current Observer. Journal of Power Electronics, 2017, 17, 389-397.	0.9	2
119	Analysis and design of coupled inductor and output harmonic filter for interleaved three phase VSCs. , 2016, , .		2
120	Torque ripple and acoustic noise of current modulations of a pseudo-sinusoidal switched reluctance motor. , 2016, , .		3
121	Interleaved auxiliary resonant snubber for high-power, high-density applications. , 2016, , .		8
122	A triangle phase-shift control strategy for interleaved critical-mode power converters. , 2016, , .		1
123	FEM modelling of three-phase common mode choke for performance evaluation. , 2016, , .		14
124	A shunt-connected phase-shift transformer for shipboard harmonics eliminating rectifiers. , 2016, , .		7
125	Modeling and control of a wide-input hybrid resonant microconverter for photovoltaic applications. , 2016, , .		4
126	Solution of input double-line frequency ripple rejection for high-efficiency high-power density string inverter in photovoltaic application. , 2016, , .		21

#	ARTICLE	IF	CITATIONS
127	A parabolic current control based digital current control strategy for high switching frequency voltage source inverters. , 2016, , .		3
128	A 15-kV class intelligent universal transformer for utility applications. , 2016, , .		62
129	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
130	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
131	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
132	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
133	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
134	A family of single-phase transformerless inverters with asymmetric phase-legs. , 2015, , .		12
135	A MOSFET transformerless inverter with reactive power capability for micro-inverter applications. , 2015, , .		2
136	Analysis and design of DCM SEPIC PFC with adjustable output voltage. , 2015, , .		13
137	Multi-mode controlled push-pull boost power factor corrector. , 2015, , .		0
138	Output capacitance effect on the voltage gain in the high step-up series resonant converter. , 2015, , .		13
139	Design considerations of LLC resonant converter for contactless laptop charger. , 2015, , .		6
140	Design optimization for ultrahigh efficiency buck regulator using wide bandgap devices. , 2015, , .		11
141	A parabolic voltage control strategy for burst mode converters with constant burst frequency and eliminated audible noise. , 2015, , .		3
142	A high-efficiency 3.3-kW bidirectional on-board charger. , 2015, , .		14
143	A high efficiency inverter design for Google little box challenge. , 2015, , .		37
144	A high-efficiency hybrid series resonant DC-DC converter with boost converter as secondary for photovoltaic applications. , 2015, , .		12

#	ARTICLE	IF	CITATIONS
145	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
146	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
147	Implementation of parabolic current control for dual-carrier PWM. , 2015, , .		11
148	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
149	High-voltage GaN HEMT evaluation in micro-inverter applications. , 2015, , .		12
150	A sensorless parabolic current control method for single phase standalone inverters. , 2015, , .		2
151	Test and analysis of 3kW PV battery energy storage system. , 2015, , .		1
152	SSTS-based soft transfer control method of motor load under different residual voltage condition. , 2015, , .		2
153	Asymmetrical loosely coupled transformer for wireless laptop charger with higher misalignment tolerance. , 2015, , .		4
154	Priority based current control design in high speed sensorless PMSM drives. , 2015, , .		1
155	A capacitor current control for stand-alone inverters using an inductor current observer. , 2015, , .		6
156	Design of Bidirectional DC-DC Resonant Converter for Vehicle-to-Grid (V2G) Applications. IEEE Transactions on Transportation Electrification, 2015, 1, 232-244.	5.3	242
157	Modeling and Control of Series-Series Compensated Inductive Power Transfer System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 111-123.	3.7	165
158	A High-Efficiency MOSFET Transformerless Inverter for Nonisolated Microinverter Applications. IEEE Transactions on Power Electronics, 2015, 30, 3610-3622.	5.4	103
159	Hybrid Transformer ZVS/ZCS DC-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
160	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
161	A dead-time compensation method for parabolic current control with improved current tracking precision. , 2014, , .		5
162	Design considerations to reduce gap variation and misalignment effects for inductive power transfer system. , 2014, , .		4

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163	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
164	Sensorless adaptive control of resonant snubber inverter for photovoltaic applications. , 2014, , .		2
165	Design and control of bidirectional resonant converter for Vehicle-to-Grid (V2G) applications. , 2014, , .		20
166	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
167	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
168	A high-efficiency on-board charger utilizing a hybrid LLC and phase-shift DC-DC converter. , 2014, , .		7
169	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
170	A novel magnetic reset zero-voltage soft-switching inverter with improved magnetic coupling method. , 2014, , .		2
171	Control of electrolyte-free microinverter with improved MPPT performance and grid current quality. , 2014, , .		29
172	Damping impact on dynamic analysis of LLC resonant converter. , 2014, , .		17
173	A capacitor voltage balancing method with zero-voltage switching for split phase inverter. , 2014, , .		11
174	Design and control of battery charger for portable human powered generator. , 2014, , .		2
175	A hybrid resonant converter utilizing a bidirectional GaN AC switch for high-efficiency PV applications. , 2014, , .		14
176	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
177	Small-signal modeling of series-series compensated induction power transfer system. , 2014, , .		22
178	Analysis and parameters optimization of a contactless IPT system for EV charger. , 2014, , .		25
179	IFEC 2013 Breaks Records for Participation: A Summary of the Competition Results. IEEE Power Electronics Magazine, 2014, 1, 28-31.	0.6	0
180	A universal input high-power-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

#	ARTICLE	IF	CITATIONS
181	Hybrid transformer ZVS/ZCS DC-DC converter for photovoltaic microinverters. , 2013, , .		11
182	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
183	An improved bridgeless SEPIC PFC rectifier with optimized magnetic utilization, minimized circulating losses, and reduced sensing noise. , 2013, , .		11
184	Z-domain modeling and control design of single-switch bridgeless SEPIC PFC converter with damping circuit. , 2013, , .		6
185	Control of pseudo-sinusoidal switched reluctance motor with zero torque ripple and reduced input current ripple. , 2013, , .		16
186	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
187	Modeling and control of a high boost ratio PV module DC-DC converter with double grid-line ripple rejection. , 2013, , .		7
188	An optimization design for 5-kW centralized PV inverter to achieve 99% efficiency. , 2013, , .		8
189	High efficiency isolated DC-DC converter combining resonant and phase-shifted topologies for electrical vehicle chargers. , 2013, , .		3
190	Bridgeless electrolytic capacitor-less valley-fill AC/DC converter for offline Twin-Bus light-emitting diode lighting application. IET Power Electronics, 2013, 6, 1132-1141.	1.5	38
191	High-Efficiency Multiphase DC-DC Converter for Fuel-Cell-Powered Truck Auxiliary Power Unit. IEEE Transactions on Vehicular Technology, 2013, 62, 2421-2429.	3.9	30
192	High efficiency contactless power transfer system for electric vehicle battery charging. , 2013, , .		23
193	A dual-buck based equalizer operating in burst-mode for split phase inverter. , 2013, , .		14
194	Design and optimization of 99% CEC efficiency soft-switching photovoltaic inverter. , 2013, , .		22
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