

Yanfeng Shen

List of Publications by Year in descending order

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65
papers

1,666
citations

471509

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docs citations

65
times ranked

1333
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability Evaluation of Isolated Buck-Boost DC-DC Series Resonant Converter. IEEE Open Journal of Power Electronics, 2022, 3, 131-141.	5.7	12
2	Reliability analysis of battery energy storage system for various stationary applications. Journal of Energy Storage, 2022, 50, 104217.	8.1	14
3	Realization of Adaptive Soft-switching in High-frequency Single-phase Inverter Based on Parallel Half Bridges. , 2022, , .		1
4	Hybrid-Mode Adaptive Zero-Voltage Switching for Single-Phase DC-AC Conversion With Paralleled SiC MOSFETs. IEEE Transactions on Power Electronics, 2022, 37, 14067-14081.	7.9	5
5	A Converter-Level on-State Voltage Measurement Method for Power Semiconductor Devices. IEEE Transactions on Power Electronics, 2021, 36, 1220-1224.	7.9	20
6	Design for Accelerated Testing of DC-Link Capacitors in Photovoltaic Inverters Based on Mission Profiles. IEEE Transactions on Industry Applications, 2021, 57, 741-753.	4.9	14
7	Quadrilateral Current Mode Paralleling of Power MOSFETs for Zero-Voltage Switching. IEEE Transactions on Power Electronics, 2021, 36, 5997-6014.	7.9	11
8	Partial Soft-switching Operation of Parallel Buck-type Semi-bridge Switching Cells with Coupled Inductors. , 2021, , .		0
9	Split Parallel Semibridge Switching Cells for Full-Power-Range Efficiency Improvement. IEEE Transactions on Power Electronics, 2021, 36, 10889-10905.	7.9	9
10	Low-Frequency Medium Power Capacitor-Free Self-Resonant Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2021, 68, 10521-10533.	7.9	9
11	Enabling Resonant Commutated Pole in Parallel Power FET Bridge Legs. IEEE Transactions on Power Electronics, 2021, 36, 13389-13403.	7.9	4
12	QCM-Enabled SiC Three-Phase Traction Inverter. , 2021, , .		1
13	Thermal Modeling and Design Optimization of PCB Vias and Pads. IEEE Transactions on Power Electronics, 2020, 35, 882-900.	7.9	45
14	A Single- and Three-Phase Grid Compatible Converter for Electric Vehicle On-Board Chargers. IEEE Transactions on Power Electronics, 2020, 35, 7545-7562.	7.9	41
15	Nanocrystalline Powder Cores for High-Power High-Frequency Applications. IEEE Transactions on Power Electronics, 2020, , 1-1.	7.9	26
16	Modified Impedance-Source Inverter with Continuous Input Currents and Fault-Tolerant Operations. Energies, 2020, 13, 3408.	3.1	1
17	Desynchronizing Paralleled GaN HEMTs to Reduce Light-Load Switching Loss. IEEE Transactions on Power Electronics, 2020, 35, 9151-9170.	7.9	14
18	Mixed Analog-Digital (MAD) Converters for High Power Density DC-DC Conversions. IEEE Transactions on Power Electronics, 2020, 35, 7742-7748.	7.9	4

#	ARTICLE	IF	CITATIONS
19	Power Loss Characterization and Modeling for GaN-Based Hard-Switching Half-Bridges Considering Dynamic on-State Resistance. IEEE Transactions on Transportation Electrification, 2020, 6, 540-553.	7.8	40
20	Design of a SiC-Based Switched CCM/TCM Inverter for High-speed Machine Drive with Low PWM-Induced Current Ripple. , 2020, , .		1
21	Wear-Out Failure Analysis of an Impedance-Source PV Microinverter Based on System-Level Electrothermal Modeling. IEEE Transactions on Industrial Electronics, 2019, 66, 3914-3927.	7.9	67
22	An Embedded Switched-Capacitor Z-Source Inverter with Continuous Input Currents. , 2019, , .		3
23	An Overview of Photovoltaic Microinverters: Topology, Efficiency, and Reliability. , 2019, , .		28
24	Mission Profile-based Accelerated Testing of DC-link Capacitors in Photovoltaic Inverters. , 2019, , .		6
25	First Observations in Degradation Testing of Planar Magnetics. , 2019, , .		7
26	Cost-Volume-Reliability Pareto Optimization of a Photovoltaic Microinverter. , 2019, , .		8
27	An Improved Stray Capacitance Model for Inductors. IEEE Transactions on Power Electronics, 2019, 34, 11153-11170.	7.9	61
28	Thermal Modelling of Planar Transformers Considering Internal Power Loss Distribution. , 2019, , .		3
29	Reliability Study of Input Side Capacitors in Impedance-Source PV Microconverters. , 2019, , .		4
30	Two-Dimensional Thermal Modeling and Parametric Optimization of Printed Circuit Board Vias. , 2019, , .		4
31	Multi-Phase Input-Parallel Output-Parallel Dual Active Bridge with Inherent Current sharing and Optimized Integrated Transformer. , 2019, , .		1
32	A Structure-Reconfigurable Series Resonant DC-DC Converter With Wide-Input and Configurable-Output Voltages. IEEE Transactions on Industry Applications, 2019, 55, 1752-1764.	4.9	49
33	A 1-MHz Series Resonant DC-DC Converter With a Dual-Mode Rectifier for PV Microinverters. IEEE Transactions on Power Electronics, 2019, 34, 6544-6564.	7.9	56
34	Reliability of DC-link Capacitors in Two-Stage Micro-Inverters Under Different PV Module Sizes. , 2019, , .		2
35	An analytical turn-on power loss model for 650-V GaN eHEMTs. , 2018, , .		7
36	A transformerless single-phase symmetrical Z-source HERIC inverter with reduced leakage currents for PV systems. , 2018, , .		12

#	ARTICLE	IF	CITATIONS
37	Reliability evaluation of an impedance-source PV microconverter. , 2018, , .		3
38	A Bidirectional Resonant DC-DC Converter Suitable for Wide Voltage Gain Range. IEEE Transactions on Power Electronics, 2018, 33, 2957-2975.	7.9	63
39	High-Efficiency High Step-Up DC-DC Converter With Dual Coupled Inductors for Grid-Connected Photovoltaic Systems. IEEE Transactions on Power Electronics, 2018, 33, 5967-5982.	7.9	323
40	A Dual Active Bridge Converter With an Extended High-Efficiency Range by DC Blocking Capacitor Voltage Control. IEEE Transactions on Power Electronics, 2018, 33, 5949-5966.	7.9	71
41	A Condition Monitoring Method for Three Phase Inverter Based on System-Level Signal. , 2018, , .		4
42	Series Resonant DC-DC Converter With Dual-Mode Rectifier for PV Microinverters. , 2018, , .		2
43	An Embedded Enhanced-Boost Z-Source Inverter. , 2018, , .		3
44	Thermal Coupling and Network Modeling for Planar Transformers. , 2018, , .		8
45	An Embedded Enhanced-Boost Z-Source Inverter Topology with Fault-Tolerant Capabilities. , 2018, , .		7
46	Wear-Out Failure Analysis of Solar Optiverter Operating with 60- and 72-Cell Si Crystalline PV Modules. , 2018, , .		3
47	Thermal Modeling and Sizing of PCB Copper Pads. , 2018, , .		1
48	Modeling and Optimization of Displacement Windings for Transformers in Dual Active Bridge Converters. , 2018, , .		4
49	Thermal resistance modelling and design optimization of PCB vias. Microelectronics Reliability, 2018, 88-90, 1118-1123.	1.7	7
50	Winding design of series AC inductor for dual active bridge converters. , 2018, , .		5
51	Dual-Bridge LLC Resonant Converter With Fixed-Frequency PWM Control for Wide Input Applications. IEEE Transactions on Power Electronics, 2017, 32, 69-80.	7.9	163
52	A voltage doubler circuit to extend the soft-switching range of dual active bridge converters. , 2017, , .		2
53	A fixed-frequency bidirectional resonant DC-DC converter suitable for wide voltage range. , 2017, , .		4
54	A reconfigurable series resonant DC-DC converter for wide-input and wide-output voltages. , 2017, , .		15

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55	Reliability oriented design of a grid-connected photovoltaic microinverter. , 2017, , .		8
56	A Current-Fed Isolated Bidirectional DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 6882-6895.	7.9	42
57	A new soft-switched high step-up DC-DC converter with dual coupled inductors. , 2017, , .		4
58	Analytical model for LLC resonant converter with variable duty-cycle control. , 2016, , .		9
59	Mission profile based sizing of IGBT chip area for PV inverter applications. , 2016, , .		13
60	The value of 64-slice spiral CT perfusion imaging in the treatment of liver cancer with argon-helium cryoablation. Oncology Letters, 2016, 12, 4584-4588.	1.8	7
61	A Modified Dual Active Bridge Converter With Hybrid Phase-Shift Control for Wide Input Voltage Range. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	53
62	Center-tapped transformer based bidirectional dc-dc converter with wide input voltage range. , 2015, , .		2
63	Interleaved Boost-Integrated <i>LLC</i> Resonant Converter With Fixed-Frequency PWM Control for Renewable Energy Generation Applications. IEEE Transactions on Power Electronics, 2015, 30, 4312-4326.	7.9	149
64	A PWM and PFM Hybrid Modulated Three-Port Converter for a Standalone PV/Battery Power System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 984-1000.	5.4	97
65	A novel LLC integrated three-port DC-DC converter for stand-alone PV/battery system. , 2014, , .		4