

# Yanfeng Shen

## List of Publications by Year in descending order

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65  
papers

1,666  
citations

471509

17  
h-index

454955

30  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1333  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Interleaved Boost-Integrated &lt;italic>LLC</italic> Resonant Converter With Fixed-Frequency PWM Control for Renewable Energy Generation Applications. IEEE Transactions on Power Electronics, 2015, 30, 4312-4326.	7.9	149
4	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
5	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
6	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
7	A Bidirectional Resonant DC-DC Converter Suitable for Wide Voltage Gain Range. IEEE Transactions on Power Electronics, 2018, 33, 2957-2975.	7.9	63
8	An Improved Stray Capacitance Model for Inductors. IEEE Transactions on Power Electronics, 2019, 34, 11153-11170.	7.9	61
9	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
10	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
11	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
12	Thermal Modeling and Design Optimization of PCB Vias and Pads. IEEE Transactions on Power Electronics, 2020, 35, 882-900.	7.9	45
13	A Current-Fed Isolated Bidirectional DC-DC Converter. IEEE Transactions on Power Electronics, 2017, 32, 6882-6895.	7.9	42
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	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
16	An Overview of Photovoltaic Microinverters: Topology, Efficiency, and Reliability. , 2019, , .		28
17	Nanocrystalline Powder Cores for High-Power High-Frequency Applications. IEEE Transactions on Power Electronics, 2020, , 1-1.	7.9	26
18	A Converter-Level on-State Voltage Measurement Method for Power Semiconductor Devices. IEEE Transactions on Power Electronics, 2021, 36, 1220-1224.	7.9	20

#	ARTICLE	IF	CITATIONS
19	A reconfigurable series resonant DC-DC converter for wide-input and wide-output voltages. , 2017, , .		15
20	Desynchronizing Paralleled GaN HEMTs to Reduce Light-Load Switching Loss. IEEE Transactions on Power Electronics, 2020, 35, 9151-9170.	7.9	14
21	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
22	Reliability analysis of battery energy storage system for various stationary applications. Journal of Energy Storage, 2022, 50, 104217.	8.1	14
23	Mission profile based sizing of IGBT chip area for PV inverter applications. , 2016, , .		13
24	A transformerless single-phase symmetrical Z-source HERIC inverter with reduced leakage currents for PV systems. , 2018, , .		12
25	Reliability Evaluation of Isolated Buck-Boost DC-DC Series Resonant Converter. IEEE Open Journal of Power Electronics, 2022, 3, 131-141.	5.7	12
26	Quadrilateral Current Mode Paralleling of Power MOSFETs for Zero-Voltage Switching. IEEE Transactions on Power Electronics, 2021, 36, 5997-6014.	7.9	11
27	Analytical model for LLC resonant converter with variable duty-cycle control. , 2016, , .		9
28	Split Parallel Semibridge Switching Cells for Full-Power-Range Efficiency Improvement. IEEE Transactions on Power Electronics, 2021, 36, 10889-10905.	7.9	9
29	Low-Frequency Medium Power Capacitor-Free Self-Resonant Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2021, 68, 10521-10533.	7.9	9
30	Reliability oriented design of a grid-connected photovoltaic microinverter. , 2017, , .		8
31	Thermal Coupling and Network Modeling for Planar Transformers. , 2018, , .		8
32	Cost-Volume-Reliability Pareto Optimization of a Photovoltaic Microinverter. , 2019, , .		8
33	An analytical turn-on power loss model for 650-V GaN eHEMTs. , 2018, , .		7
34	An Embedded Enhanced-Boost Z-Source Inverter Topology with Fault-Tolerant Capabilities. , 2018, , .		7
35	Thermal resistance modelling and design optimization of PCB vias. Microelectronics Reliability, 2018, 88-90, 1118-1123.	1.7	7
36	First Observations in Degradation Testing of Planar Magnetics. , 2019, , .		7

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37	The value of 64-slice spiral CT perfusion imaging in the treatment of liver cancer with argon-helium cryoablation. <i>Oncology Letters</i> , 2016, 12, 4584-4588.	1.8	7
38	Mission Profile-based Accelerated Testing of DC-link Capacitors in Photovoltaic Inverters. , 2019, , .		6
39	Winding design of series AC inductor for dual active bridge converters. , 2018, , .		5
40	Hybrid-Mode Adaptive Zero-Voltage Switching for Single-Phase DC-AC Conversion With Paralleled SiC MOSFETs. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 14067-14081.	7.9	5
41	A novel LLC integrated three-port DC-DC converter for stand-alone PV/battery system. , 2014, , .		4
42	A fixed-frequency bidirectional resonant DC-DC converter suitable for wide voltage range. , 2017, , .		4
43	A new soft-switched high step-up DC-DC converter with dual coupled inductors. , 2017, , .		4
44	A Condition Monitoring Method for Three Phase Inverter Based on System-Level Signal. , 2018, , .		4
45	Modeling and Optimization of Displacement Windings for Transformers in Dual Active Bridge Converters. , 2018, , .		4
46	Reliability Study of Input Side Capacitors in Impedance-Source PV Microconverters. , 2019, , .		4
47	Two-Dimensional Thermal Modeling and Parametric Optimization of Printed Circuit Board Vias. , 2019, , .		4
48	Mixed Analog-Digital (MAD) Converters for High Power Density DC-DC Conversions. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 7742-7748.	7.9	4
49	Enabling Resonant Commutated Pole in Parallel Power FET Bridge Legs. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 13389-13403.	7.9	4
50	Reliability evaluation of an impedance-source PV microconverter. , 2018, , .		3
51	An Embedded Enhanced-Boost Z-Source Inverter. , 2018, , .		3
52	Wear-Out Failure Analysis of Solar Optiverter Operating with 60- and 72-Cell Si Crystalline PV Modules. , 2018, , .		3
53	An Embedded Switched-Capacitor Z-Source Inverter with Continuous Input Currents. , 2019, , .		3
54	Thermal Modelling of Planar Transformers Considering Internal Power Loss Distribution. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
55	Center-tapped transformer based bidirectional dc-dc converter with wide input voltage range. , 2015, , .		2
56	A voltage doubler circuit to extend the soft-switching range of dual active bridge converters. , 2017, , .		2
57	Series Resonant DC-DC Converter With Dual-Mode Rectifier for PV Microinverters. , 2018, , .		2
58	Reliability of DC-link Capacitors in Two-Stage Micro-Inverters Under Different PV Module Sizes. , 2019, , .		2
59	Thermal Modeling and Sizing of PCB Copper Pads. , 2018, , .		1
60	Multi-Phase Input-Parallel Output-Parallel Dual Active Bridge with Inherent Current sharing and Optimized Integrated Transformer. , 2019, , .		1
61	Modified Impedance-Source Inverter with Continuous Input Currents and Fault-Tolerant Operations. Energies, 2020, 13, 3408.	3.1	1
62	QCM-Enabled SiC Three-Phase Traction Inverter. , 2021, , .		1
63	Design of a SiC-Based Switched CCM/TCM Inverter for High-speed Machine Drive with Low PWM-Induced Current Ripple. , 2020, , .		1
64	Realization of Adaptive Soft-switching in High-frequency Single-phase Inverter Based on Parallel Half Bridges. , 2022, , .		1
65	Partial Soft-switching Operation of Parallel Buck-type Semi-bridge Switching Cells with Coupled Inductors. , 2021, , .		0