

# Zhan Shen

## List of Publications by Year in descending order

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27  
papers

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citations

1163117

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27  
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27  
docs citations

27  
times ranked

205  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Stray Capacitance Model for Inductors. IEEE Transactions on Power Electronics, 2019, 34, 11153-11170.	7.9	61
2	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
3	Modelling and analysis of the transformer current resonance in dual active bridge converters. , 2017, , .		21
4	Rethinking Basic Assumptions for Modeling Parasitic Capacitance in Inductors. IEEE Transactions on Power Electronics, 2022, 37, 8281-8289.	7.9	20
5	Transformer Current Ringing in Dual Active Bridge Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 12130-12140.	7.9	19
6	Parasitic Capacitance Modeling of Inductors Without Using the Floating Voltage Potential of Core. IEEE Transactions on Industrial Electronics, 2022, 69, 3214-3222.	7.9	14
7	The Faraday Shields Loss of Transformers. IEEE Transactions on Power Electronics, 2020, 35, 12194-12206.	7.9	12
8	Safe Operating Area of DC-Link Film Capacitors. IEEE Transactions on Power Electronics, 2021, 36, 11014-11018.	7.9	12
9	Modelling, Analysis and Mitigation of the Transformer Current Ringing in Dual Active Bridge Converters. , 2018, , .		9
10	Parasitics of Orthocyclic Windings in Inductors and Transformers. IEEE Transactions on Power Electronics, 2021, 36, 1994-2008.	7.9	9
11	Thermal Coupling and Network Modeling for Planar Transformers. , 2018, , .		8
12	An AC resistance optimization method applicable for inductor and transformer windings with full layers and partial layers. , 2017, , .		7
13	An analytical turn-on power loss model for 650-V GaN eHEMTs. , 2018, , .		7
14	First Observations in Degradation Testing of Planar Magnetics. , 2019, , .		7
15	Degradation Analysis of Planar Magnetics. , 2020, , .		6
16	Winding design of series AC inductor for dual active bridge converters. , 2018, , .		5
17	Design of Dry-type High-power High-frequency Transformer Based on Triangular Closed Core. , 2021, , .		5
18	Modeling and Optimization of Displacement Windings for Transformers in Dual Active Bridge Converters. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Thermal Modelling of Planar Transformers Considering Internal Power Loss Distribution. , 2019, , .		3
20	Series Resonant DC-DC Converter With Dual-Mode Rectifier for PV Microinverters. , 2018, , .		2
21	EMI Filter Robustness in Three-Level Active Neutral-Point-Clamped Inverter. IEEE Transactions on Power Electronics, 2022, 37, 4641-4657.	7.9	2
22	Design and Analysis of a Novel Trans-inverse DC-DC Converter. , 2019, , .		0
23	Electromagnetic Dynamic of Medium-frequency Transformer in Electrostatic Precipitation. , 2019, , .		0
24	An Approximation Model of AC Resistance for Inductor and Transformer Windings with Partial Layers. IEEJ Journal of Industry Applications, 2020, 9, 549-556.	1.1	0
25	Design of a High-Power Efficient Converter with Medium-Frequency Transformer for Industrial Electrostatic Precipitators. , 2021, , .		0
26	Practical Design of A Dry-type 200kVA 10kHz Transformer With Nanocrystalline Core. , 2021, , .		0
27	A Nonlinear Stability Analysis Method of Grid-Connected Inverter. , 2021, , .		0