Yanfeng Chen

List of Publications by Year
in descending order

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48 papers	729 citations	840119 11 h-index	552369 26 g-index
48 all docs	48 docs citations	48 times ranked	679 citing authors

#	Article	IF	Citations
1	Novel Cuk-Based Bridgeless Rectifier of Wireless Power Transfer System With Wide Power Modulation Range and Low Current Ripple. IEEE Transactions on Industrial Electronics, 2022, 69, 2533-2544.	5.2	8
2	Multiload Wireless Power Transfer System With Constant Output Power and Efficiency. IEEE Transactions on Industry Applications, 2022, 58, 1101-1114.	3.3	15
3	An Improved Electric Spring Topology Based on LCL Filter. IEEE Transactions on Power Electronics, 2022, 37, 5984-5994.	5.4	7
4	An Electric Spring Without Noncritical Load Based on Fractional-Order Components. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 519-526.	3.0	3
5	Transient modeling and analysis of fractional-order resonant very high frequency boost converter. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2022, ahead-of-print, 1428.	0.5	1
6	Small-Step Discretization Method for Modeling and Stability Analysis of Cascaded DCâ€“DC Converters With Considering Different Switching Frequencies. IEEE Transactions on Power Electronics, 2022, 37, 8855-8872.	5.4	8
7	Accurate Modeling of the VHF Resonant Boost Converter Considering Multiple Parasitic Parameters. IEEE Transactions on Power Electronics, 2022, 37, 14902-14915.	5.4	2
8	A General Frequency-Domain Model of Trailing-Edge and Leading-Edge Carrier PWM dcâ€“dc Converter Based on Hybrid Continuous and Discrete-Time Descriptions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4175-4187.	3.7	4
9	Multiscale Modeling and Analysis of Boost Converter Based on Device Mechanism Model and Continuous Switching Function. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4225-4235.	3.7	3
10	Recognition and Analysis of Unexpected Modes of Modular Multilevel Converter. IEEE Access, 2021, , 1-1.	2.6	0
11	Synthetic Velocity Vectors Control Law Based on Projection-Value-Based Strategy for H6 Inverter. IEEE Access, 2021, 9, 22023-22034.	2.6	1
12	Transient Analysis of ZCS PWM Converter Based on Equivalent Small Parameter Method. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4188-4199.	3.7	2
13	The Time-Invariant Polynomial Model of Fixed-Frequency PWM DCâ€“DC Converter Applying Normalized Coordinate Transformation. IEEE Transactions on Power Electronics, 2021, 36, 13200-13214.	5.4	4
14	Multiple Functions Control Strategy of Electric Spring based on Current-Source Inverter. , 2021, , .		1
15	Extended-Range Wireless Power Transfer System Based on High-Order PT Symmetric Principle. , 2021, , .		1
16	Multiscale Modeling and Analysis of DC/DC Converter Based on Macro and Micro-Scale Description. IEEE Transactions on Energy Conversion, 2020, 35, 356-365.	3.7	7
17	Modeling and Analysis of the Fractional-Order Flyback Converter in Continuous Conduction Mode by Caputo Fractional Calculus. Electronics (Switzerland), 2020, 9, 1544.	1.8	13
18	Analysis of Digital PCM-Controlled Boost Converter With Trailing-Edge Modulation Based on z-Domain and Describing-Function Model. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3250-3259.	3.7	8

#	Article	IF	Citations
19	An improved discrete mapping model of the peak current-mode controlled Boost converter. , 2020, , .		1
20	Nonlinear Parity-Time-Symmetric Model for Constant Efficiency Wireless Power Transfer: Application to a Drone-in-Flight Wireless Charging Platform. IEEE Transactions on Industrial Electronics, 2019, 66, 4097-4107.	5.2	187
21	A Hybrid Nine-Arm High-Voltage Inverter with DC-Fault Blocking Capability. Energies, 2019, 12, 3850.	1.6	1
22	Study on a Simplified Structure of a Two-Stage Grid-Connected Photovoltaic System for Parameter Design Optimization. Energies, 2019, 12, 2193.	1.6	3
23	Nonlinear Modeling and Harmonic Analysis of Magnetic Resonant WPT System Based on Equivalent Small Parameter Method. IEEE Transactions on Industrial Electronics, 2019, 66, 6604-6612.	5.2	26
24	ESP-based Nonlinear Description and Solution of Boost Converter Considering Devices Mechanism Model. , 2019, , .		0
25	Improvement of Stability in a PCM-Controlled Boost Converter with the Target Period Orbit-Tracking Method. Electronics (Switzerland), 2019, 8, 1432.	1.8	2
26	Transient Analysis of Quasi-Resonant Converter Based on Equivalent Small Parameter Method Considering Different Time Scale. , 2019, , .		2
27	Multiple Parameters Estimation Based on Transmitter Side Information in Wireless Power Transfer System. IEEE Access, 2019, 7, 164835-164843.	2.6	11
28	High Step-Up DCâ€“DC Converter With Active Switched <italic>LC</italic>-Network for Photovoltaic Systems. IEEE Transactions on Energy Conversion, 2019, 34, 321-329.	3.7	87
29	Enhanced-Boost Quasi-Z-Source Inverter With an Active Switched Z-Network. IEEE Transactions on Industrial Electronics, 2018, 65, 8372-8381.	5.2	59
30	Effects of Foreign Metal Object on Soft-Switching Conditions of Class-E Inverter in WPT. Energies, 2018, 11, 1926.	1.6	5
31	Dual-Side Independent Switched Capacitor Control for Wireless Power Transfer with Coplanar Coils. Energies, 2018, 11, 1472.	1.6	3
32	Omnidirectional Wireless Power Transfer System Based on Rotary Transmitting Coil for Household Appliances. Energies, 2018, 11, 878.	1.6	14
33	An Equivalent Voltage Source Placement Rule for Impedance Source Network and Performance Assessment. IEEE Transactions on Industrial Electronics, 2018, 65, 8382-8392.	5.2	5
34	Implementation of power factor corrector with fractional capacitor. , 2017, , .		1
35	An extended analytical approach for obtaining the steady-state periodic solutions of SPWM single-phase inverters. , 2017, , .		10
36	A Modeling and Analysis Method for Fractional-Order DCâ€“DC Converters. IEEE Transactions on Power Electronics, 2017, 32, 7034-7044.	5.4	92

#	Article	IF	Citations
37	An analytical approach for obtaining the transient solution of the fractional-order buck converter in CCM. , 2017, , .		6
38	A symbolic analysis method for fractional-order boost converter in discontinuous conduction mode. , 2017, , .		14
39	Modeling and Stability Analysis of a Single-Phase Two-Stage Grid-Connected Photovoltaic System. Energies, 2017, 10, 2176.	1.6	18
40	Modeling and stability analysis of digital current-mode controlled Boost converter in z-domain. , 2014, , .		1
41	BIFURCATION INVESTIGATION AND STABILITY ANALYSIS FOR PEAK CURRENT MODE INPUT-SERIES OUTPUT-PARALLEL DCâ€“DC CONVERTERS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350113.	0.7	9
42	A novel phase-locked loop for three-phase ups under distorted utility conditions. , 2011, , .		0
43	An Image Encryption Algorithm Based on Alternating Subsection-Disordered Diploid Chaotic Sequences. , 2010, , .		0
44	Coexisting Fast-Scale and Slow-Scale Instability in Current-Mode Controlled DC/DC Converters: Analysis, Simulation and Experimental Results. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3335-3348.	3.5	82
45	The realization of multifunctional guitar effectors&synthesizer based on ADSP-BF533. , 2008, , .		1
46	Harmonic analysis of VHF resonant converter based on equivalent nonlinear controlled model. International Journal of Circuit Theory and Applications, 0, , .	1.3	1
47	General method for constructing multiâ€input highâ€boost DCâ€DC converters with low spike current. International Journal of Circuit Theory and Applications, 0, , .	1.3	0
48	Min-projection strategy with improved dynamic and steady state characteristics for three-phase grid-connected inverters. Journal of Power Electronics, 0, , .	0.9	0