

Weiguo L

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26 papers	211 citations	8 h-index	13 g-index
28 ext. papers	287 ext. citations	4.6 avg, IF	3.81 L-index

#	Paper	IF	Citations
26	Online DC-Link Capacitance Monitoring for Digital-Controlled Boost PFC Converters without Additional Sampling Devices. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
25	Multidimensional harmonic current feedforward compensation control of single-phase alternating current direct current power factor correction converter. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2946-2958	2	1
24	An Overview of Condition Monitoring Techniques for Capacitors in DC-Link Applications. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 3692-3716	7.2	39
23	An Online Parameters Monitoring Method for Output Capacitor of Buck Converter Based on Large-Signal Load Transient Trajectory Analysis. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 1-1	5.6	15
22	Auxiliary bridge arm based switching control for optimal unloading transient performance of multiphase buck converters. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 919-933	2	1
21	Large-Signal Stability Analysis for VSC-HVDC Systems Based on Mixed Potential Theory. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1939-1948	4.3	5
20	Online Estimation of ESR for DC-Link Capacitor of Boost PFC Converter Using Wavelet Transform Based Time-Frequency Analysis Method. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7755-7764	7.2	14
19	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 5664-5674	3.9	4
18	Improving Dynamic Performance of Boost PFC Converter Using Current-Harmonic Feedforward Compensation in Synchronous Reference Frame. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 4857-4866	8.9	11
17	Two-Period Frame Transient Switching Control for Buck Converter Using Coupled-Inductor Auxiliary Circuit. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8040-8050	8.9	5
16	An Auxiliary-Parallel-Inductor-Based Sequence Switching Control to Improve the Load Transient Response of Buck Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2776-2784	8.9	6
15	Mitigating Line Frequency Instability of Boost PFC Converter Under Proportional Outer-Voltage Loop With Additional Third Current-Harmonic Feedforward Compensation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 4528-4541	3.9	3
14	Multi-Period Frame Transient Switching Control for Low-Voltage High-Current Buck Converter With a Controlled Coupled Inductor. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 9743-9757	7.2	7
13	Constant-Frequency Capacitor Current Hysteresis Control of Buck Converter Using Reconstructed Ideal-Capacitor Voltage. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7916-7926	8.9	5
12	Circuit modeling and efficiency analysis for wireless power transfer system with shielding. <i>International Journal of Circuit Theory and Applications</i> , 2019 , 47, 294-303	2	2
11	Auxiliary Parallel Inductor Switching Control for Improving the Load Transient Response Performance of Buck Converters. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 96-100	3.5	4
10	A Combined Analytical-Numerical Methodology for Predicting Subharmonic Oscillation in H-Bridge Inverters Under Double Edge Modulation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 2341-2351	3.9	5

9	Transfer function-matched capacitor-current sensing and its circuit implementation for high-frequency power converters. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 882-892	2	2
8	Current-Ripple Compensation Control Technique for Switching Power Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4197-4206	8,9	10
7	Lyapunov Controlled Boost PFC Converter Using D-Q Coordinate Transformation 2018 ,		3
6	Decoupling design of multi-coil wireless power transfer system with metal insulator 2017 ,		4
5	Filter-based perturbation control of low-frequency oscillation in voltage-mode H-bridge DC/AC inverter. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 866-874	2	4
4	Modeling and analysis of magnetically coupled resonant wireless power transfer system with rectifier bridge LED load. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 1914-1924	2	6
3	Limit-cycle stable control of current-mode dc-dc converter with zero-perturbation dynamical compensation. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 318-328	2	11
2	Improvement of Stability and Power Factor in PCM Controlled Boost PFC Converter With Hybrid Dynamic Compensation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 320-328	3,9	25
1	Control of sub-harmonic oscillation in peak current mode buck converter with dynamic resonant perturbation. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 1399-1411	2	15