

Weiguo LÃ¼

List of Publications by Year in descending order

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316
citing authors

#	ARTICLE	IF	CITATIONS
1	An Overview of Condition Monitoring Techniques for Capacitors in DC-Link Applications. IEEE Transactions on Power Electronics, 2021, 36, 3692-3716.	7.9	111
2	An Online Parameters Monitoring Method for Output Capacitor of Buck Converter Based on Large-Signal Load Transient Trajectory Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4004-4015.	5.4	33
3	Online Estimation of $\langle i \rangle_{ESR}$ for DC-Link Capacitor of Boost PFC Converter Using Wavelet Transform Based Time-Frequency Analysis Method. IEEE Transactions on Power Electronics, 2020, 35, 7755-7764.	7.9	31
4	Improvement of Stability and Power Factor in PCM Controlled Boost PFC Converter With Hybrid Dynamic Compensation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 320-328.	5.4	30
5	Improving Dynamic Performance of Boost PFC Converter Using Current-Harmonic Feedforward Compensation in Synchronous Reference Frame. IEEE Transactions on Industrial Electronics, 2020, 67, 4857-4866.	7.9	20
6	Large-Signal Stability Analysis for VSC-HVDC Systems Based on Mixed Potential Theory. IEEE Transactions on Power Delivery, 2020, 35, 1939-1948.	4.3	18
7	Control of subharmonic oscillation in peak current mode buck converter with dynamic resonant perturbation. International Journal of Circuit Theory and Applications, 2015, 43, 1399-1411.	2.0	16
8	Limit-cycle stable control of current-mode dc-dc converter with zero-perturbation dynamical compensation. International Journal of Circuit Theory and Applications, 2015, 43, 318-328.	2.0	15
9	Current-Ripple Compensation Control Technique for Switching Power Converters. IEEE Transactions on Industrial Electronics, 2018, 65, 4197-4206.	7.9	14
10	An Auxiliary-Parallel-Inductor-Based Sequence Switching Control to Improve the Load Transient Response of Buck Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 2776-2784.	7.9	12
11	Multi-Period Frame Transient Switching Control for Low-Voltage High-Current Buck Converter With a Controlled Coupled Inductor. IEEE Transactions on Power Electronics, 2019, 34, 9743-9757.	7.9	12
12	Compensation Network Optimal Design Based on Evolutionary Algorithm for Inductive Power Transfer System. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5664-5674.	5.4	9
13	Decoupling design of multi-coil wireless power transfer system with metal insulator. , 2017, , .		8
14	Online DC-Link Capacitance Monitoring for Digital-Controlled Boost PFC Converters Without Additional Sampling Devices. IEEE Transactions on Industrial Electronics, 2023, 70, 907-920.	7.9	8
15	Filter-based perturbation control of low-frequency oscillation in voltage-mode H-bridge DC-AC inverter. International Journal of Circuit Theory and Applications, 2015, 43, 866-874.	2.0	7
16	Modeling and analysis of magnetically coupled resonant wireless power transfer system with rectifier bridge LED load. International Journal of Circuit Theory and Applications, 2015, 43, 1914-1924.	2.0	7
17	A Combined Analytical-Numerical Methodology for Predicting Subharmonic Oscillation in H-Bridge Inverters Under Double Edge Modulation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2341-2351.	5.4	7
18	Constant-Frequency Capacitor Current Hysteresis Control of Buck Converter Using Reconstructed Ideal-Capacitor Voltage. IEEE Transactions on Industrial Electronics, 2019, 66, 7916-7926.	7.9	7

#	ARTICLE	IF	CITATIONS
19	Mitigating Line Frequency Instability of Boost PFC Converter Under Proportional Outer-Voltage Loop With Additional Third Current-Harmonic Feedforward Compensation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4528-4541.	5.4	6
20	Two-Period Frame Transient Switching Control for Buck Converter Using Coupled-Inductor Auxiliary Circuit. IEEE Transactions on Industrial Electronics, 2019, 66, 8040-8050.	7.9	6
21	Circuit modeling and efficiency analysis for wireless power transfer system with shielding. International Journal of Circuit Theory and Applications, 2019, 47, 294-303.	2.0	6
22	Auxiliary Parallel Inductor Switching Control for Improving the Load Transient Response Performance of Buck Converters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 96-100.	3.0	5
23	Lyapunov Controlled Boost PFC Converter Using D-Q Coordinate Transformation. , 2018, , .		4
24	Multi-Dimension Harmonic Current Feedforward Compensation Control of AC-DC PFC Converter. , 2020, , .		3
25	Transfer functionâ€‘matched capacitorâ€‘current sensing and its circuit implementation for highâ€‘frequency power converters. International Journal of Circuit Theory and Applications, 2018, 46, 882-892.	2.0	2
26	Auxiliary bridge armâ€‘based switching control for optimal unloading transient performance of multiphase buck converters. International Journal of Circuit Theory and Applications, 2020, 48, 919-933.	2.0	1
27	Multidimensional harmonic current feedforward compensation control of singleâ€‘phase alternating currentâ€‘direct current power factor correction converter. International Journal of Circuit Theory and Applications, 2021, 49, 2946-2958.	2.0	1
28	An Online Monitoring Method for Output Capacitors of DC/DC Boost Converters. , 2020, , .		1