

Al-Thaddeus Avestruz

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	100 MHz Symmetric Current-Mode Class D Wireless Power Transfer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 4508-4525.	3.7	4
2	A 4 kV/120 A SiC Solid-State DC Circuit Breaker Powered By a Load-Independent IPT System. IEEE Transactions on Industry Applications, 2022, 58, 1115-1125.	3.3	17
3	Transfer-Power Measurement Using a Non-Contact Method for Fair and Accurate Metering of Wireless Power Transfer in Electric Vehicles. IEEE Transactions on Power Electronics, 2022, 37, 1244-1271.	5.4	24
4	Electromagnetic Model-Based Foreign Object Detection for Wireless Power Transfer. IEEE Transactions on Power Electronics, 2022, 37, 100-113.	5.4	21
5	Capacitive Couple-Based Transient Current Commutation in Solid-State Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 4973-4978.	5.4	10
6	High-Frequency High Step-Up Inductive Power Transfer-Based Capacitor Charger in Active Injection DC Circuit Breakers. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 572-582.	3.0	4
7	Comparing power processing system approaches in second-use battery energy buffering for electric vehicle charging. Journal of Energy Storage, 2022, 49, 104017.	3.9	6
8	A 4kV/100A DC Solid-State Circuit Breaker with Soft Turn-off Operation. , 2022, , .		2
9	A Framework for Code Division Multiple Access Wireless Power Transfer. IEEE Access, 2021, 9, 135079-135101.	2.6	4
10	Reconfigurable Photovoltaic Emulator for Differential Diffusion Charge Redistribution Solar Modules. IEEE Open Journal of Industry Applications, 2021, 2, 36-46.	4.8	6
11	Reliable Method for the Measurement of Diffusion Capacitance in Solar Photovoltaic Cells. , 2021, , .		0
12	Bidirectional Capacitive Wireless Power Transfer for Energy Balancing in Modular Robots. , 2020, , .		3
13	Code Division Multiple Access Wireless Power Transfer for Energy Sharing in Heterogenous Robot Swarms. IEEE Access, 2020, 8, 132121-132133.	2.6	9
14	Isolated Ultrafast Gate Driver with Variable Duty Cycle for Pulse and VHF Power Electronics. IEEE Transactions on Power Electronics, 2020, 35, 12678-12685.	5.4	7
15	Electromagnetic Model-Based Foreign Object Detection for Wireless Power Transfer. , 2019, , .		10
16	A 5 MHz High-Speed Saturating Inductor DC-DC Converter Using Cycle-by-Cycle Digital Control. , 2019, , .		3
17	Active Segmentation at 100 MHz for 12 W VHF Wireless Power Transfer. , 2019, , .		5
18	Two-Port Up/Down DC-DC Converter for Two-Dimensional Maximum Power Point Tracking of Differential Diffusion Charge Redistribution Solar Panel. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	A New Calibration Strategy for Transfer-Power Measurement of Wireless Charging of Electric Vehicles. , 2019, , .		3
20	Cycle-by-Cycle Digital Control of a Multi-Megahertz Variable-Frequency Boost Converter for Automatic Power Control of LiDAR. , 2019, , .		6
21	Switching-Synchronized Sampled-State Space Modeling and Digital Controller for a Constant Off-Time, Current-Mode Boost Converter. , 2019, , .		6
22	Inductive Wireless Power Transfer at 100MHz with Wide Load Range and Constant Output Current. , 2019, , .		2
23	A New Framework for Cycle-by-Cycle Digital Control of Megahertz-Range Variable Frequency Buck Converters. , 2018, , .		9
24	Performance Comparisons of Synchronous and Uncontrolled Rectifiers for 27.12 MHz Wireless Power Transfer Using CMCD Converters. , 2018, , .		12
25	Accurate Transfer-Power Measurement for Wireless Charging of Electric Vehicles Under Misalignment. , 2018, , .		5
26	27.12 MHz Bi-Directional Wireless Power Transfer Using Current-Mode Class D Converters with Phase-Shift Power Modulation. , 2018, , .		15
27	Scaling Wireless Power Transfer Through Code Division Multiple Access. , 2018, , .		4
28	Transfer-power measurement: A non-contact method for fair and accurate metering of wireless power transfer in electric vehicles. , 2017, , .		14
29	Comparison of switched receivers for direct-sequence spread-spectrum wireless power transfer. , 2017, , .		8
30	A Transmitter-Receiver System for Long-Range Capacitive Sensing Applications. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2412-2423.	2.4	11
31	Capacitor-Less Photovoltaic Cell-Level Power Balancing using Diffusion Charge Redistribution. IEEE Transactions on Power Electronics, 2015, 30, 537-546.	5.4	75
32	Modeling and Estimating Current Harmonics of Variable Electronic Loads. IEEE Transactions on Power Electronics, 2009, 24, 2803-2811.	5.4	74
33	A 5 μ W/Channel Spectral Analysis IC for Chronic Bidirectional Brain-Machine Interfaces. IEEE Journal of Solid-State Circuits, 2008, 43, 3006-3024.	3.5	122
34	A 2 μ W/100 nV/rtHz Chopper-Stabilized Instrumentation Amplifier for Chronic Measurement of Neural Field Potentials. IEEE Journal of Solid-State Circuits, 2007, 42, 2934-2945.	3.5	360