Piotr Lezynski

List of Publications by Year
in descending order

25 papers	**252** citations	1040056 **9** h-index	996975 **15** g-index
25 all docs	**25** docs citations	**25** times ranked	**144** citing authors

#	Article	IF	Citations
1	Comparative Analysis of Deterministic and Random Modulations Based on Mathematical Models of Transmission Errors in Series Communication. IEEE Transactions on Power Electronics, 2022, 37, 11985-11995.	7.9	3
2	The Effect of EMI Generated from Spread-Spectrum-Modulated SiC-Based Buck Converter on the G3-PLC Channel. Electronics (Switzerland), 2021, 10, 1416.	3.1	17
3	Deterministic vs. Random Modulated Interference on G3 Power Line Communication. Energies, 2021, 14, 3257.	3.1	9
4	Assessment of Conducted Emission for Multiple Compact Fluorescent Lamps in Various Grid Topology. Electronics (Switzerland), 2021, 10, 2258.	3.1	3
5	Electromagnetic Interference of Spread-Spectrum Modulated Power Converters in G3-PLC Power Line Communication Systems. IEEE Letters on EMC Practice and Applications, 2021, 3, 118-122.	1.1	6
6	The Influence of Commercial PC Switched Mode Power Supply Interference on the PRIME PLC Performance. , 2021, , .		3
7	EMI Levels Associated With MMC Capacitors Voltage Balancing Techniques. , 2021, , .		0
8	The Influence of Spread-Spectrum Modulation on the G3-PLC Performance. , 2021, , .		1
9	A novel method for EMI evaluation in random modulated power electronic converters. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107098.	5.0	19
10	Aggregated Conducted Electromagnetic Interference Generated by DC/DC Converters with Deterministic and Random Modulation. Energies, 2020, 13, 3698.	3.1	7
11	FPGA-Based System for Electromagnetic Interference Evaluation in Random Modulated DC/DC Converters. Energies, 2020, 13, 2389.	3.1	19
12	Electromagnetic compatibility assessment in multiconverter power systems â€" Conducted interference issues. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108119.	5.0	21
13	Prospective Analysis of the effect of Silicon based and Silicon-Carbide based Converter on G3 Power Line Communication. , 2020, , .		4
14	Reduction of Conducted Emissions in DC/DC Converters with FPGA-based Random Modulation. , 2020, , .		5
15	Time-domain Assessment of Data Transmission Errors in Systems with Multiple DC/DC Converters. , 2020, , .		3
16	Design and Implementation of a Fully Controllable Cyber-Physical System for Testing Energy Storage Systems. IEEE Access, 2019, 7, 47259-47272.	4.2	14
17	Hardware and Software Implementation of Decentralized Active Demand Response (DADR) System Supporting Primary Regulation. IEEE Transactions on Smart Grid, 2019, 10, 4806-4815.	9.0	3
18	Random Modulation in Inverters With Respect to Electromagnetic Compatibility and Power Quality. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 782-790.	5.4	43

#	Article	IF	Citations
19	Diophantine equation based model of data transmission errors caused by interference generated by DC-DC converters with deterministic modulation. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2016, 64, 575-580.	0.8	13
20	Time-Domain-Based Assessment of Data Transmission Error Probability in Smart Grids With Electromagnetic Interference. IEEE Transactions on Industrial Electronics, 2014, 61, 1882-1890.	7.9	36
21	A new control method of energy conversion for the cascaded voltage source inverter. , 2014, , .		0
22	Pearson's random walk approach to evaluating interference generated by a group of converters. Applied Mathematics and Computation, 2013, 219, 6437-6444.	2.2	16
23	EMI generated by Power Electronic Interfaces in Smart Grids. , 2012, , .		2
24	Zero CM voltage multilevel inverters for smart grid applications. , 2011, , .		2
25	Determination of flux density produced by multilevel inverters in CM voltage filter. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1019-1034.	0.9	3