

Robert Smolenski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/636569/publications.pdf>

Version: 2024-02-01

65
papers

533
citations

623734

14
h-index

752698

20
g-index

65
all docs

65
docs citations

65
times ranked

346
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced metering infrastructure and energy storage for location and mitigation of power quality disturbances in the utility grid with high penetration of renewables. Renewable and Sustainable Energy Reviews, 2022, 157, 111988.	16.4	25
2	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
3	Influence of Random Modulated Power Converter on G3 Power Line Communication. Applied Sciences (Switzerland), 2022, 12, 5550.	2.5	4
4	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
5	Deterministic vs. Random Modulated Interference on G3 Power Line Communication. Energies, 2021, 14, 3257.	3.1	9
6	Assessment of Conducted Emission for Multiple Compact Fluorescent Lamps in Various Grid Topology. Electronics (Switzerland), 2021, 10, 2258.	3.1	3
7	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
8	The Influence of Commercial PC Switched Mode Power Supply Interference on the PRIME PLC Performance. , 2021, , .		3
9	EMI Levels Associated With MMC Capacitors Voltage Balancing Techniques. , 2021, , .		0
10	A Simulation for Parameters Extraction of Double-Layer Shielded Power Cable using FEA. , 2021, , .		0
11	The Influence of Spread-Spectrum Modulation on the G3-PLC Performance. , 2021, , .		1
12	Radiated and Conducted EMI by RF Fields at Hospital Environment. , 2021, , .		1
13	Characteristic of Conducted EMI in Compact Fluorescent Lamps Application Assessment based on CISPR-11. , 2021, , .		0
14	Low-Frequency Envelope of DC/DC Converters due Differences in the Control Hardware Features. , 2021, , .		1
15	The analysis of the innovative potential of the energy sector and low-carbon development: A case study for Poland. Energy Strategy Reviews, 2021, 38, 100769.	7.3	18
16	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
17	Aggregated Conducted Electromagnetic Interference Generated by DC/DC Converters with Deterministic and Random Modulation. Energies, 2020, 13, 3698.	3.1	7
18	FPGA-Based System for Electromagnetic Interference Evaluation in Random Modulated DC/DC Converters. Energies, 2020, 13, 2389.	3.1	19

#	ARTICLE	IF	CITATIONS
19	Electromagnetic compatibility assessment in multiconverter power systems – Conducted interference issues. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108119.	5.0	21
20	Prospective Analysis of the effect of Silicon based and Silicon-Carbide based Converter on G3 Power Line Communication. , 2020, , .		4
21	Reduction of Conducted Emissions in DC/DC Converters with FPGA-based Random Modulation. , 2020, , .		5
22	Time-domain Assessment of Data Transmission Errors in Systems with Multiple DC/DC Converters. , 2020, , .		3
23	PSpice-Simulink Co-Simulation of the Conducted Emissions of a DC-DC Converter with Random Modulation. , 2020, , .		2
24	Design and Implementation of a Fully Controllable Cyber-Physical System for Testing Energy Storage Systems. IEEE Access, 2019, 7, 47259-47272.	4.2	14
25	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
26	Application of Stochastic Decentralized Active Demand Response (DADR) System for Load Frequency Control. IEEE Transactions on Smart Grid, 2018, 9, 1055-1062.	9.0	45
27	Ship-to-Shore Versus Shore-to-Ship Synchronization Strategy. IEEE Transactions on Energy Conversion, 2018, 33, 1787-1796.	5.2	21
28	A comparative study on DSM services employing distributed energy resources: Energy storage and direct load control. , 2017, , .		0
29	Modified stochastic algorithm for decentralized active demand response (DADR) system supporting primary load frequency control. , 2017, , .		1
30	Stress free shore to ship (S2SP) electrical power networks synchronization. , 2016, , .		2
31	Decentralized Active Demand Response (DADR) system for improvement of frequency stability in distribution network. Electric Power Systems Research, 2016, 134, 80-87.	3.6	21
32	CM Voltage Compensators for Power Electronic Interfaces. IEEE Electromagnetic Compatibility Magazine, 2015, 4, 96-100.	0.1	0
33	Low Frequency Conducted Emissions of Grid Connected Static Converters. IEEE Electromagnetic Compatibility Magazine, 2015, 4, 86-94.	0.1	12
34	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
35	A new control method of energy conversion for the cascaded voltage source inverter. , 2014, , .		0
36	Compensation of CM voltage in systems consisting of interleaved AC-DC converters. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	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
38	AC/DC/DC Interfaces for V2G Applications' EMC Issues. IEEE Transactions on Industrial Electronics, 2013, 60, 930-935.	7.9	34
39	CM voltage compensator for DC/DC converters. , 2013, , .		3
40	Aggregated conducted interferences generated by group of asynchronous drives with deterministic and random modulation. , 2012, , .		4
41	State of the art of active power electronic transformers for smart grids. , 2012, , .		13
42	Voltage harmonic distortion measurement issue in smart-grid distribution system. , 2012, , .		16
43	Conducted EMI Issues in Smart Grids. Power Systems, 2012, , 37-77.	0.5	3
44	Compensation of Interference Sources Inside Power Electronic Interfaces. Power Systems, 2012, , 99-143.	0.5	0
45	Standardized Measurements of Conducted EMI. Power Systems, 2012, , 23-35.	0.5	0
46	EMI generated by Power Electronic Interfaces in Smart Grids. , 2012, , .		2
47	Power Electronic Interfaces in Smart Grids. Power Systems, 2012, , 1-22.	0.5	0
48	Conducted Electromagnetic Interference (EMI) in Smart Grids. Power Systems, 2012, , .	0.5	22
49	Compensation of CM voltage in interfaces for LV distributed generation. , 2011, , .		11
50	Zero CM voltage multilevel inverters for smart grid applications. , 2011, , .		2
51	Power electronics interfaces for low voltage distribution generation — EMC issues. , 2011, , .		6
52	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
53	CM voltage compensation in AC/DC/AC interfaces for smart grids. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2011, 59, 513-523.	0.8	2
54	Statistical approach to discharge bearing currents. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 647-666.	0.9	9

#	ARTICLE	IF	CITATIONS
55	Aggregated conducted EMI generated by group of frequency converter-fed drives. , 2009, , .		3
56	Ancillary services to grids provided with distributed generation. , 2009, , .		0
57	Selected conducted electromagnetic interference issues in distributed power systems. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2009, 57, 383-393.	0.8	15
58	EMC Cases in Distributed Electrical Power System. Power Systems, 2008, , 147-173.	0.5	1
59	Quality Problems in Smart Networks. Power Systems, 2008, , 107-146.	0.5	2
60	Conditions of CM voltage cancellation in multilevel voltage inverters with conventional and improved carrier-based SVPWM. , 2008, , .		2
61	Metod of Selection of dv/dt for EMI Current Ringing Attenuation. , 2007, , .		1
62	Statistical model of electrostatic discharge hazard in bearings of induction motor fed by inverter. Journal of Electrostatics, 2005, 63, 475-480.	1.9	12
63	Bearing current path and pulse rate in PWM-inverter-fed induction. , 0, , .		17
64	Series Passive Compensation of Common Mode Voltage in Multilevel Inverter Drives. , 0, , .		5
65	Mitigation techniques of conducted emi in multilevel inverter drives. , 0, , .		3