

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	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
2	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
3	AC/DC/DC Interfaces for V2G Applicationsâ€™ EMC Issues. IEEE Transactions on Industrial Electronics, 2013, 60, 930-935.	7.9	34
4	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
5	Conducted Electromagnetic Interference (EMI) in Smart Grids. Power Systems, 2012, , .	0.5	22
6	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
7	Ship-to-Shore Versus Shore-to-Ship Synchronization Strategy. IEEE Transactions on Energy Conversion, 2018, 33, 1787-1796.	5.2	21
8	Electromagnetic compatibility assessment in multiconverter power systems â€™ Conducted interference issues. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108119.	5.0	21
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	FPGA-Based System for Electromagnetic Interference Evaluation in Random Modulated DC/DC Converters. Energies, 2020, 13, 2389.	3.1	19
11	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
12	Bearing current path and pulse rate in PWM-inverter-fed induction. , 0, , .		17
13	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
14	Voltage harmonic distortion measurement issue in smart-grid distribution system. , 2012, , .		16
15	Pearsonâ€™s random walk approach to evaluating interference generated by a group of converters. Applied Mathematics and Computation, 2013, 219, 6437-6444.	2.2	16
16	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
17	Design and Implementation of a Fully Controllable Cyber-Physical System for Testing Energy Storage Systems. IEEE Access, 2019, 7, 47259-47272.	4.2	14
18	State of the art of active power electronic transformers for smart grids. , 2012, , .		13

#	ARTICLE	IF	CITATIONS
19	Statistical model of electrostatic discharge hazard in bearings of induction motor fed by inverter. Journal of Electrostatics, 2005, 63, 475-480.	1.9	12
20	Low Frequency Conducted Emissions of Grid Connected Static Converters. IEEE Electromagnetic Compatibility Magazine, 2015, 4, 86-94.	0.1	12
21	Compensation of CM voltage in interfaces for LV distributed generation. , 2011, , .		11
22	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
23	Deterministic vs. Random Modulated Interference on G3 Power Line Communication. Energies, 2021, 14, 3257.	3.1	9
24	Aggregated Conducted Electromagnetic Interference Generated by DC/DC Converters with Deterministic and Random Modulation. Energies, 2020, 13, 3698.	3.1	7
25	Power electronics interfaces for low voltage distribution generation — EMC issues. , 2011, , .		6
26	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
27	Series Passive Compensation of Common Mode Voltage in Multilevel Inverter Drives. , 0, , .		5
28	Reduction of Conducted Emissions in DC/DC Converters with FPGA-based Random Modulation. , 2020, , .		5
29	Aggregated conducted interferences generated by group of asynchronous drives with deterministic and random modulation. , 2012, , .		4
30	Prospective Analysis of the effect of Silicon based and Silicon-Carbide based Converter on G3 Power Line Communication. , 2020, , .		4
31	Influence of Random Modulated Power Converter on G3 Power Line Communication. Applied Sciences (Switzerland), 2022, 12, 5550.	2.5	4
32	Mitigation techniques of conducted emi in multilevel inverter drives. , 0, , .		3
33	Aggregated conducted EMI generated by group of frequency converter-fed drives. , 2009, , .		3
34	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
35	Conducted EMI Issues in Smart Grids. Power Systems, 2012, , 37-77.	0.5	3
36	CM voltage compensator for DC/DC converters. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	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
38	Assessment of Conducted Emission for Multiple Compact Fluorescent Lamps in Various Grid Topology. Electronics (Switzerland), 2021, 10, 2258.	3.1	3
39	The Influence of Commercial PC Switched Mode Power Supply Interference on the PRIME PLC Performance. , 2021, , .		3
40	Time-domain Assessment of Data Transmission Errors in Systems with Multiple DC/DC Converters. , 2020, , .		3
41	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
42	Quality Problems in Smart Networks. Power Systems, 2008, , 107-146.	0.5	2
43	Conditions of CM voltage cancellation in multilevel voltage inverters with conventional and improved carrier-based SVPWM. , 2008, , .		2
44	Zero CM voltage multilevel inverters for smart grid applications. , 2011, , .		2
45	EMI generated by Power Electronic Interfaces in Smart Grids. , 2012, , .		2
46	Stress free shore to ship (S2SP) electrical power networks synchronization. , 2016, , .		2
47	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
48	PSpice-Simulink Co-Simulation of the Conducted Emissions of a DC-DC Converter with Random Modulation. , 2020, , .		2
49	Metod of Selection of dv/dt for EMI Current Ringing Attenuation. , 2007, , .		1
50	EMC Cases in Distributed Electrical Power System. Power Systems, 2008, , 147-173.	0.5	1
51	Modified stochastic algorithm for decentralized active demand response (DADR) system supporting primary load frequency control. , 2017, , .		1
52	The Influence of Spread-Spectrum Modulation on the G3-PLC Performance. , 2021, , .		1
53	Radiated and Conducted EMI by RF Fields at Hospital Environment. , 2021, , .		1
54	Low-Frequency Envelope of DC/DC Converters due Differences in the Control Hardware Features. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
55	Ancillary services to grids provided with distributed generation. , 2009, , .		0
56	Compensation of Interference Sources Inside Power Electronic Interfaces. Power Systems, 2012, , 99-143.	0.5	0
57	Standardized Measurements of Conducted EMI. Power Systems, 2012, , 23-35.	0.5	0
58	Power Electronic Interfaces in Smart Grids. Power Systems, 2012, , 1-22.	0.5	0
59	A new control method of energy conversion for the cascaded voltage source inverter. , 2014, , .		0
60	Compensation of CM voltage in systems consisting of interleaved AC-DC converters. , 2014, , .		0
61	CM Voltage Compensators for Power Electronic Interfaces. IEEE Electromagnetic Compatibility Magazine, 2015, 4, 96-100.	0.1	0
62	A comparative study on DSM services employing distributed energy resources: Energy storage and direct load control. , 2017, , .		0
63	EMI Levels Associated With MMC Capacitors Voltage Balancing Techniques. , 2021, , .		0
64	A Simulation for Parameters Extraction of Double-Layer Shielded Power Cable using FEA. , 2021, , .		0
65	Characteristic of Conducted EMI in Compact Fluorescent Lamps Application Assessment based on CISPR-11. , 2021, , .		0