

Krzysztof Rudion

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

836
citations

1163117

8
h-index

1125743

13
g-index

84
all docs

84
docs citations

84
times ranked

712
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Supraharmonic Emission from Three Different Electric Vehicle Charging Infrastructures in Time and Frequency Domain. <i>Energies</i> , 2022, 15, 394.	3.1	9
2	Power Quality Mitigation via Smart Demand-Side Management Based on a Genetic Algorithm. <i>Energies</i> , 2022, 15, 1492.	3.1	12
3	A grid reinforcement approach for an optimized planning of high-voltage distribution grids under consideration of line loading indicators. <i>IET Renewable Power Generation</i> , 2022, 16, 1841-1852.	3.1	1
4	Evaluation of the Feasible Provision of Flexibility in Distribution Networks with Advanced Grid Monitoring. , 2022, , .		2
5	Small-signal stability modelling, sensitivity analysis and optimization of droop controlled inverters in LV microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 125, 106404.	5.5	37
6	Computing the feasible operating region of active distribution networks: Comparison and validation of random sampling and optimal power flow based methods. <i>IET Generation, Transmission and Distribution</i> , 2021, 15, 1600-1612.	2.5	18
7	Optimisation, benchmark testing and comparison of droop control variants in microgrids. <i>IET Smart Grid</i> , 2021, 4, 536-548.	2.2	8
8	Congestion Management Using Aggregated Flexibility at the TSO-DSO Interface. , 2021, , .		8
9	Manual Configuration and Best Setup of Support Vector Machines for Power Quality Classification. , 2021, , .		0
10	Optimized Planning of Distribution Grids Considering Grid Expansion, Battery Systems and Dynamic Curtailment. <i>Energies</i> , 2021, 14, 5242.	3.1	5
11	Grid Reinforcement Method for High-Voltage Distribution Grids under Consideration of Performance Indices. , 2021, , .		0
12	Combined Grid-supporting and Market-based Operation Strategy for Battery Storage Systems. , 2020, , .		1
13	Influence of PLL on synthetic inertia of DFIG wind turbine in droop controlled microgrids. <i>Journal of Engineering</i> , 2019, 2019, 5314-5319.	1.1	1
14	PQ classification by way of parallel computing - A sensitivity analysis for a real-time LSTM approach using waveform and RMS data. , 2019, , .		3
15	Economic Load Dispatch Using an Improved Particle Swarm Optimization based on functional constriction factor and functional inertia weight. , 2019, , .		4
16	Power Quality Prediction by way of Parallel Computing - A New Approach Based on a Long Short-Term Memory Network. , 2019, , .		1
17	Impact of Grid Topology and Tap Position Changes on the Flexibility Provision from Distribution Grids. , 2019, , .		7
18	Verification of Linear Flexibility Range Assessment in Distribution Grids. , 2019, , .		4

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19	Time-Based Aggregation of Flexibility at the TSO-DSO Interconnection Point. , 2019, , .		17
20	Detection and Monitoring of Supraharmonic Anomalies of an Electric Vehicle Charging Station. , 2019, , .		4
21	Evaluation of a Three-Phase Distribution System State Estimation for Operational Use in a Real Medium Voltage Grid. , 2019, , .		0
22	Short Term Load Forecasting for Individual Consumers based on Markov Chains. , 2019, , .		3
23	Efficient integration of $(n - 1)$ -security into probabilistic network expansion planning. International Journal of Electrical Power and Energy Systems, 2018, 94, 151-159.	5.5	12
24	Dimensioning and Positioning of Storage Systems Under the Consideration of the $(n-1)$ Security Criterion in 110 kV Distribution Grids. , 2018, , .		0
25	Modelling and Control Optimization of Diesel Synchronous Generators in LV Microgrids. , 2018, , .		6
26	Improved Assessment of the Flexibility Range of Distribution Grids Using Linear Optimization. , 2018, , .		41
27	Influence of inaccurate low voltage microgrid synchronization on synchronous generators. , 2018, , .		2
28	Hardware-in-the-loop test bench for investigation of DER integration strategies within a multi-agent-based environment. , 2018, , .		1
29	Optimization of power feed-in curtailment from RES and its consideration within grid planning. , 2017, , .		5
30	Rapid identification of worst-case conditions: improved planning of active distribution grids. IET Generation, Transmission and Distribution, 2017, 11, 2412-2417.	2.5	8
31	Comparison of stochastic load profile modeling approaches for low voltage residential consumers. , 2017, , .		9
32	Detailed power quality measurement of electric vehicle charging infrastructure. CIRED - Open Access Proceedings Journal, 2017, 2017, 581-584.	0.1	12
33	Optimal dimensioning and operation of a grid-supporting energy storage system. , 2017, , .		3
34	Security-constrained dynamic curtailment method for renewable energy sources in grid planning. , 2017, , .		4
35	Parametrization of stochastic load profile modeling approaches for smart grid simulations. , 2017, , .		5
36	Comparison between static and dynamic curtailment of RES in probabilistic high-voltage distribution grid planning. CIRED - Open Access Proceedings Journal, 2017, 2017, 2169-2173.	0.1	5

#	ARTICLE	IF	CITATIONS
37	Einführung in Expertensysteme. , 2017, , .		13
38	Neuro-Fuzzy-Systeme. , 2017, , 203-213.		0
39	Künstliche Neuronale Netzwerke. , 2017, , 131-201.		0
40	Einführung und Grundbegriffe der Expertensysteme. , 2017, , 1-20.		1
41	Deklaratives Programmieren und Inferenzmechanismen. , 2017, , 67-75.		0
42	Repetitorium der Prädikatenlogik. , 2017, , 21-45.		0
43	Fuzzy-Logik. , 2017, , 85-130.		0
44	Wissensrepräsentation und Wissensakquisition. , 2017, , 47-65.		1
45	Behandlung von Ungenauigkeit. , 2017, , 77-83.		0
46	Daten- und Wissensbanken in Expertensystemen für die Energieversorgung. , 2017, , 215-233.		0
47	Automated operation approach for embedded HVDC links during (N-1)-conditions in the AC system. , 2016, , .		5
48	Automated operation of parallel VSC HVDC links within an interconnected AC network. , 2016, , .		5
49	Utilizing flexible loads and battery storage systems in a pool of households with virtual metering. , 2016, , .		0
50	Dynamic curtailment method for renewable energy sources in distribution grid planning. , 2016, , .		10
51	PV curtailment reduction with smart homes and heat pumps. , 2016, , .		12
52	Weather data-based load profile modeling for grid expansion planning. , 2015, , .		12
53	Effects of state estimation accuracy on the voltage control of low voltage grids. , 2015, , .		3
54	Modern voltage regulation methods for network planning and operation in low voltage grids. , 2015, , .		8

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55	An Aâ€CAES pilot installation in the distribution system: A technical study for RES integration. Energy Science and Engineering, 2014, 2, 116-127.	4.0	21
56	Connecting the Dots: Regional Coordination for Offshore Wind and Grid Development. IEEE Power and Energy Magazine, 2013, 11, 83-95.	1.6	11
57	Offshore Power System Operation Planning Considering Energy Market Schedules. IEEE Transactions on Sustainable Energy, 2013, 4, 725-733.	8.8	8
58	Concept, architecture and components of a smart distribution control center. , 2013, , .		0
59	Reliability investigations for a DC offshore power system. , 2013, , .		5
60	The European Offshore Grid — Inspiration to the US?. , 2012, , .		0
61	Improving ranking of electric power system dynamic behavior in DSA system by applying VSC based HVDC technology. , 2012, , .		1
62	Fulfilling the standard EN 50160 in distribution networks with a high penetration of renewable energy system. , 2012, , .		8
63	Offshore power system operation planning considering energy market schedules. , 2012, , .		1
64	Parameter estimation of dynamic load model using field measurement data performed by OLTC operation. , 2012, , .		18
65	Grid connection of offshore wind farm based DFIG with low frequency AC transmission system. , 2012, , .		40
66	System observability indices for optimal placement of PMU measurements. , 2012, , .		5
67	Wind farm operation planning using optimal yaw angle pattern (OYAP). , 2011, , .		3
68	Renewable Generation and Reliability in the Electric Power NetworkZuverlÄssigkeit elektrischer Netze mit Energieerzeugung aus erneuerbaren Energien. IT - Information Technology, 2010, 52, .	0.9	1
69	Europe: Offshore wind power - European visions and projects. , 2010, , .		0
70	Improvement of stability assessment of VSVDC transmission systems. , 2010, , .		5
71	Enhancing virtual power plant observability with PMUs. , 2010, , .		5
72	Toward a Benchmark test system for the offshore grid in the North Sea. , 2010, , .		32

#	ARTICLE	IF	CITATIONS
73	Stability studies of offshore wind farms. , 2010, , .		5
74	Optimal operation of a virtual power plant. , 2009, , .		93
75	Observability of the distribution system. , 2009, , .		24
76	Vision 2020 — Security of the network operation today and in the future. German experiences. , 2008, , .		7
77	MaWind - tool for the aggregation of wind farm models. , 2008, , .		13
78	The Double Diploma Project: A New Higher Education Concept in a United Europe. International Journal of Electrical Engineering and Education, 2007, 44, 184-191.	0.8	3
79	Stochastic Computation of Power System Security Level. , 2007, , .		4
80	Benchmark for an Electric Distribution System with Dispersed Energy Resources. , 2006, , .		18
81	Design of benchmark of medium voltage distribution network for investigation of DG integration. , 2006, , .		169
82	Investigation of disposable reserve power in a large-scale wind farm. , 2005, , .		6