Krzysztof Rudion

List of Publications by Year
in descending order

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	Design of benchmark of medium voltage distribution network for investigation of DG integration. , 2006, , .		169
2	Optimal operation of a virtual power plant. , 2009, , .		93
3	Improved Assessment of the Flexibility Range of Distribution Grids Using Linear Optimization. , 2018, , .		41
4	Grid connection of offshore wind farm based DFIG with low frequency AC transmission system. , 2012, , .		40
5	Small-signal stability modelling, sensitivity analysis and optimization of droop controlled inverters in LV microgrids. International Journal of Electrical Power and Energy Systems, 2021, 125, 106404.	5.5	37
6	Toward a Benchmark test system for the offshore grid in the North Sea. , 2010, , .		32
7	Observability of the distribution system. , 2009, , .		24
8	An A€CAES pilot installation in the distribution system: A technical study for RES integration. Energy Science and Engineering, 2014, 2, 116-127.	4.0	21
9	Benchmark for an Electric Distribution System with Dispersed Energy Resources. , 2006, , .		18
10	Parameter estimation of dynamic load model using field measurement data performed by OLTC operation. , 2012, , .		18
11	Computing the feasible operating region of active distribution networks: Comparison and validation of random sampling and optimal power flow based methods. IET Generation, Transmission and Distribution, 2021, 15, 1600-1612.	2.5	18
12	Time-Based Aggregation of Flexibility at the TSO-DSO Interconnection Point. , 2019, , .		17
13	MaWind - tool for the aggregation of wind farm models. , 2008, , .		13
14	Einführung in Expertensysteme. , 2017, , .		13
15	Weather data-based load profile modeling for grid expansion planning. , 2015, , .		12
16	PV curtailment reduction with smart homes and heat pumps. , 2016, , .		12
17	Detailed power quality measurement of electric vehicle charging infrastructure. CIRED - Open Access Proceedings Journal, 2017, 2017, 581-584.	0.1	12
18	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

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19	Power Quality Mitigation via Smart Demand-Side Management Based on a Genetic Algorithm. Energies, 2022, 15, 1492.	3.1	12
20	Connecting the Dots: Regional Coordination for Offshore Wind and Grid Development. IEEE Power and Energy Magazine, 2013, 11, 83-95.	1.6	11
21	Dynamic curtailment method for renewable energy sources in distribution grid planning. , 2016, , .		10
22	Comparison of stochastic load profile modeling approaches for low voltage residential consumers. , 2017, , .		9
23	Characterization of Supraharmonic Emission from Three Different Electric Vehicle Charging Infrastructures in Time and Frequency Domain. Energies, 2022, 15, 394.	3.1	9
24	Fulfilling the standard EN 50160 in distribution networks with a high penetration of renewable energy system. , 2012, , .		8
25	Offshore Power System Operation Planning Considering Energy Market Schedules. IEEE Transactions on Sustainable Energy, 2013, 4, 725-733.	8.8	8
26	Modern voltage regulation methods for network planning and operation in low voltage grids. , 2015, , .		8
27	Rapid identification of worstâ€case conditions: improved planning of active distribution grids. IET Generation, Transmission and Distribution, 2017, 11, 2412-2417.	2.5	8
28	Optimisation, benchmark testing and comparison of droop control variants in microgrids. IET Smart Grid, 2021, 4, 536-548.	2.2	8
29	Congestion Management Using Aggregated Flexibility at the TSO-DSO Interface. , 2021, , .		8
30	Vision 2020 &#x2014; Security of the network operation today and in the future. German experiences. , 2008, , .		7
31	Impact of Grid Topology and Tap Position Changes on the Flexibility Provision from Distribution Grids. , 2019, , .		7
32	Investigation of disposable reserve power in a large-scale wind farm. , 2005, , .		6
33	Modelling and Control Optimization of Diesel Synchronous Generators in LV Microgrids. , 2018, , .		6
34	Improvement of stability assessment of VSCHVDC transmission systems. , 2010, , .		5
35	Enhancing virtual power plant observability with PMUs. , 2010, , .		5
36	Stability studies of offshore wind farms. , 2010, , .		5

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37	System observability indices for optimal placement of PMU measurements. , 2012, , .		5
38	Reliability investigations for a DC offshore power system. , 2013, , .		5
39	Automated operation approach for embedded HVDC links during (N-1)-conditions in the AC system. , 2016, , .		5
40	Automated operation of parallel VSC HVDC links within an interconnected AC network. , 2016, , .		5
41	Optimization of power feed-in curtailment from RES and its consideration within grid planning. , 2017, , .		5
42	Parametrization of stochastic load profile modeling approaches for smart grid simulations. , 2017, , .		5
43	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
44	Optimized Planning of Distribution Grids Considering Grid Expansion, Battery Systems and Dynamic Curtailment. Energies, 2021, 14, 5242.	3.1	5
45	Stochastic Computation of Power System Security Level. , 2007, , .		4
46	Security-constrained dynamic curtailment method for renewable energy sources in grid planning. , 2017, , .		4
47	Economic Load Dispatch Using an Improved Particle Swarm Optimization based on functional constriction factor and functional inertia weight. , 2019, , .		4
48	Verification of Linear Flexibility Range Assessment in Distribution Grids. , 2019, , .		4
49	Detection and Monitoring of Supraharmonic Anomalies of an Electric Vehicle Charging Station. , 2019, , .		4
50	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
51	Wind farm operation planning using optimal yaw angle pattern (OYAP). , 2011, , .		3
52	Effects of state estimation accuracy on the voltage control of low voltage grids. , 2015, , .		3
53	Optimal dimensioning and operation of a grid-supporting energy storage system. , 2017, , .		3
54	PQ classification by way of parallel computing - A sensitivity analysis for a real-time LSTM approach using waveform and RMS data. , 2019, , .		3

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55	Short Term Load Forecasting for Individual Consumers based on Markov Chains. , 2019, , .		3
56	Influence of inaccurate low voltage microgrid synchronization on synchronous generators. , 2018, , .		2
57	Evaluation of the Feasible Provision of Flexibility in Distribution Networks with Advanced Grid Monitoring. , 2022, , .		2
58	Renewable Generation and Reliability in the Electric Power NetworkZuverlässigkeit elektrischer Netze mit Energieerzeugung aus erneuerbaren Energien. IT - Information Technology, 2010, 52, .	0.9	1
59	Improving ranking of electric power system dynamic behavior in DSA system by applying VSC based HVDC technology. , 2012, , .		1
60	Offshore power system operation planning considering energy market schedules. , 2012, , .		1
61	Hardware-in-the-loop test bench for investigation of DER integration strategies within a multi-agent-based environment. , 2018, , .		1
62	Influence of PLL on synthetic inertia of DFIG wind turbine in droop controlled microgrids. Journal of Engineering, 2019, 2019, 5314-5319.	1.1	1
63	Power Quality Prediction by way of Parallel Computing - A New Approach Based on a Long Short-Term Memory Network. , 2019, , .		1
64	Einführung und Grundbegriffe der Expertensysteme. , 2017, , 1-20.		1
65	Wissensrepräsentation und Wissensakquisition. , 2017, , 47-65.		1
66	Combined Grid-supporting and Market-based Operation Strategy for Battery Storage Systems. , 2020, , .		1
67	A grid reinforcement approach for an optimized planning of high‐voltage distribution grids under consideration of line loading indicators. IET Renewable Power Generation, 2022, 16, 1841-1852.	3.1	1
68	Europe: Offshore wind power - European visions and projects. , 2010, , .		0
69	The European Offshore Grid — Inspiration to the US?. , 2012, , .		0
70	Concept, architecture and components of a smart distribution control center. , 2013, , .		0
71	Utilizing flexible loads and battery storage systems in a pool of households with virtual metering. , 2016, , .		0
72	Dimensioning and Positioning of Storage Systems Under the Consideration of the (n-l) Security Criterion in 110 kV Distribution Grids. , 2018, , .		0

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73	Evaluation of a Three-Phase Distribution System State Estimation for Operational Use in a Real Medium Voltage Grid. , 2019, , .		0
74	Manual Configuration and Best Setup of Support Vector Machines for Power Quality Classification. , 2021, , .		0
75	Neuro-Fuzzy-Systeme. , 2017, , 203-213.		0
76	KÃ¼nstliche Neuronale Netzwerke. , 2017, , 131-201.		0
77	Deklaratives Programmieren und Inferenzmechanismen. , 2017, , 67-75.		0
78	Repetitorium der PrÃ¤dikatenlogik. , 2017, , 21-45.		0
79	Fuzzy-Logik. , 2017, , 85-130.		0
80	Behandlung von Ungenauigkeit. , 2017, , 77-83.		0
81	Daten- und Wissensbanken in Expertensystemen fÃ¼r die Energieversorgung. , 2017, , 215-233.		0
82	Grid Reinforcement Method for High-Voltage Distribution Grids under Consideration of Performance Indices. , 2021, , .		0