

Birgitte Bak-Jensen

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

2,060
citations

430874

18
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361022

35
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92
all docs

92
docs citations

92
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep neural network-based hierarchical learning method for dispatch control of multi-regional power grid. <i>Neural Computing and Applications</i> , 2022, 34, 5063-5079.	5.6	11
2	Novel dynamic framework to form transmission tariffs with suitable economic signals. <i>Electric Power Systems Research</i> , 2022, 206, 107795.	3.6	0
3	Scenario prediction for power loads using a pixel convolutional neural network and an optimization strategy. <i>Energy Reports</i> , 2022, 8, 6659-6671.	5.1	7
4	Testing Requirements and Control Strategies of Next-Generation Grid Emulator: A Review. , 2022, , .		4
5	Short-term power prediction for renewable energy using hybrid graph convolutional network and long short-term memory approach. <i>Electric Power Systems Research</i> , 2022, 211, 108614.	3.6	19
6	Optimising Energy Flexibility of Boats in PV-BESS Based Marina Energy Systems. <i>Energies</i> , 2021, 14, 3397.	3.1	2
7	Assessment of Energy Arbitrage Using Energy Storage Systems: A Wind Park's Perspective. <i>Energies</i> , 2021, 14, 4718.	3.1	4
8	Incentive Price-Based Demand Response in Active Distribution Grids. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 180.	2.5	6
9	An Open-Source Toolbox with Classical Classifiers for Electricity Theft Detection. , 2021, , .		1
10	Robust Self-Scheduling of Operational Processes for Industrial Demand Response Aggregators. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 1387-1395.	7.9	45
11	Flexibility from Electric Boiler and Thermal Storage for Multi Energy System Interaction. <i>Energies</i> , 2020, 13, 98.	3.1	14
12	Operation of power distribution networks with new and flexible loads: A case of existing residential low voltage network. <i>Energy</i> , 2020, 202, 117715.	8.8	17
13	Operational flexibility of electrified transport and thermal units in distribution grid. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 121, 106029.	5.5	11
14	Modeling Daily Load Profiles of Distribution Network for Scenario Generation Using Flow-Based Generative Network. <i>IEEE Access</i> , 2020, 8, 77587-77597.	4.2	41
15	Hierarchical learning optimisation method for the coordination dispatch of the inter-regional power grid considering the quality of service index. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 3673-3684.	2.5	5
16	Integrated Approach for Network Observability and State Estimation in Active Distribution Grid. <i>Energies</i> , 2019, 12, 2230.	3.1	18
17	Autonomous Controller for Flexible Operation of Heat Pumps in Low-Voltage Distribution Network. <i>Energies</i> , 2019, 12, 1482.	3.1	4
18	Predictive Control of Flexible Resources for Demand Response in Active Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 2957-2969.	6.5	36

#	ARTICLE	IF	CITATIONS
19	Maximizing the self-consumption of Solar-PV using Battery Energy Storage System in SamsÅ,Marina. , 2019, , .		1
20	Estimation of Energy Activity and Flexibility Range in Smart Active Residential Building. Smart Cities, 2019, 2, 471-495.	9.4	6
21	A performance evaluation of future low voltage grids in presence of prosumers modelled in high temporal resolution. Sustainable Cities and Society, 2019, 44, 702-714.	10.4	7
22	Multi-time-scale energy management of distributed energy resources in active distribution grids. , 2019, , 503-528.		2
23	A multi-agent based optimization of residential and industrial demand response aggregators. International Journal of Electrical Power and Energy Systems, 2019, 107, 472-485.	5.5	88
24	Optimum Aggregation and Control of Spatially Distributed Flexible Resources in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 5311-5322.	9.0	15
25	Opportunities and challenges of demand response in active distribution networks. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e271.	4.1	18
26	Optimum Aggregation and Control of Spatially Distributed Flexible Resources in Smart Grid. , 2018, , .		1
27	Utilization of Battery Storage for Flexible Power Management in Active Distribution Networks. , 2018, , .		5
28	Battery Energy Storage Management for Smart Residential Buildings. , 2018, , .		3
29	Effect of smart meter measurements data on distribution state estimation. , 2018, , .		1
30	Smart Grid Constraint Violation Management for Balancing and Regulating Purposes. IEEE Transactions on Industrial Informatics, 2017, 13, 2864-2875.	11.3	11
31	Design and Cosimulation of Hierarchical Architecture for Demand Response Control and Coordination. IEEE Transactions on Industrial Informatics, 2017, 13, 1806-1816.	11.3	46
32	Coordinated voltage control of distributed PV inverters for voltage regulation in low voltage distribution networks. , 2017, , .		16
33	Loss optimization in distribution networks with distributed generation. , 2017, , .		1
34	Multi-level control framework for enhanced flexibility of active distribution network. , 2017, , .		2
35	Impact of demand side management in active distribution networks. , 2017, , .		1
36	Intelligent architecture for enhanced observability for active distribution system. , 2017, , .		0

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37	Multi-Time Scale Control of Demand Flexibility in Smart Distribution Networks. <i>Energies</i> , 2017, 10, 37.	3.1	18
38	An efficient multi-objective approach for designing of communication interfaces in smart grids. , 2016, , .		5
39	Participation of flexible loads in load frequency control to support high wind penetration. , 2016, , .		4
40	Active control of thermostatic loads for economic and technical support to distribution grids. , 2016, , .		10
41	Demand Response Control in Low Voltage Grids for Technical and Commercial Aggregation Services. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 2771-2780.	9.0	29
42	Allocation of power meters for online load distribution estimation in smart grids. , 2015, , .		6
43	Improving and handling electric vehicle penetration level by different smart charging algorithms in distribution grids. , 2015, , .		3
44	Overvoltage mitigation using coordinated control of demand response and grid-tied photovoltaics. , 2015, , .		9
45	Enhancing the observability of traditional distribution grids by strategic meter allocation. , 2015, , .		2
46	Charging schedule for Electric Vehicles in Danish residential distribution grids. , 2015, , .		0
47	Flexible Demand Control to Enhance the Dynamic Operation of Low Voltage Networks. <i>IEEE Transactions on Smart Grid</i> , 2015, 6, 705-715.	9.0	22
48	The geographical aspect of flexibility in distribution grids. , 2015, , .		6
49	An adaptive overcurrent protection in smart distribution grid. , 2015, , .		21
50	Managing high penetration of renewable energy in MV grid by electric vehicle storage. , 2015, , .		4
51	Demand flexibility from residential heat pump. , 2014, , .		15
52	A simplified short term load forecasting method based on sequential patterns. , 2014, , .		8
53	Probabilistic quantification of potentially flexible residential demand. , 2014, , .		5
54	Fuzzy adaptive particle swarm optimisation for power loss minimisation in distribution systems using optimal load response. <i>IET Generation, Transmission and Distribution</i> , 2014, 8, 1-10.	2.5	34

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55	Optimal sizing and allocation of residential photovoltaic panels in a distribution network for ancillary services application. , 2014, , .		5
56	Stochastic impact assessment of the heating and transportation systems electrification on LV grids. , 2014, , .		8
57	Improving photovoltaic and electric vehicle penetration in distribution grids with smart transformer. , 2013, , .		2
58	Mitigation of voltage sags in CIGRE low voltage distribution network. , 2013, , .		2
59	Generation of domestic hot water, space heating and driving pattern profiles for integration analysis of active loads in low voltage grids. , 2013, , .		7
60	Optimal Operation of Plug-In Electric Vehicles in Power Systems With High Wind Power Penetrations. IEEE Transactions on Sustainable Energy, 2013, 4, 577-585.	8.8	144
61	Study of DFIG wind turbine fault ride-through according to the Danish grid code. , 2013, , .		2
62	Alkaline electrolyzer and V2G system DigSILENT models for demand response analysis in future distribution networks. , 2013, , .		7
63	Voltage support from electric vehicles in distribution grid. , 2013, , .		5
64	Integration of solar photovoltaics and electric vehicles in residential grids. , 2013, , .		2
65	Integration of Electric Vehicles in low voltage Danish distribution grids. , 2012, , .		24
66	Electric vehicles in low voltage residential grid: A danish case study. , 2012, , .		6
67	Electric Vehicles to support large wind power penetration in future Danish power systems. , 2012, , .		10
68	An iterative approach for symmetrical and asymmetrical Short-circuit calculations with converter-based connected renewable energy sources. Application to wind power. , 2012, , .		10
69	Review on islanding operation of distribution system with distributed generation. , 2011, , .		62
70	Optimal operation of electric vehicles in competitive electricity markets and its impact on distribution power systems. , 2011, , .		7
71	Coordinated Voltage Control Scheme for SEIG-Based Wind Park Utilizing Substation STATCOM and ULTC Transformer. IEEE Transactions on Sustainable Energy, 2011, 2, 246-255.	8.8	39
72	Stochastic evaluation of maximum wind installation in a radial distribution network. , 2011, , .		3

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73	Probabilistic analysis in normal operation of distribution system with distributed generation. , 2011, , .		1
74	Stochastic Optimization of Wind Turbine Power Factor Using Stochastic Model of Wind Power. IEEE Transactions on Sustainable Energy, 2010, 1, 19-29.	8.8	65
75	Integration of Vehicle-to-Grid in the Western Danish Power System. IEEE Transactions on Sustainable Energy, 2010, , .	8.8	203
76	The Relationship Between Electricity Price and Wind Power Generation in Danish Electricity Markets. , 2010, , .		9
77	Novel STATCOM Controller for Mitigating SSR and Damping Power System Oscillations in a Series Compensated Wind Park. IEEE Transactions on Power Electronics, 2010, 25, 429-441.	7.9	202
78	Vehicle-to-grid systems for frequency regulation in an Isolated Danish distribution network. , 2010, , .		24
79	Underfrequency Load Shedding for an Isolated Distribution System With Distributed Generators. IEEE Transactions on Power Delivery, 2010, 25, 911-918.	4.3	107
80	Optimal operation strategy of battery energy storage system to real-time electricity price in Denmark. , 2010, , .		32
81	Optimal Load Response to Time-of-Use Power Price for Demand Side Management in Denmark. , 2010, , .		13
82	Vehicle-to-Grid for isolated power system operation in Bornholm. , 2010, , .		23
83	Impacts of electric vehicle loads on power distribution systems. , 2010, , .		55
84	Markov model of wind power time series using Bayesian inference of transition matrix. , 2009, , .		19
85	Measurement Based Scenario Analysis of Short-Range Distribution System Planning. , 2009, , .		1
86	A Hybrid Islanding Detection Technique Using Average Rate of Voltage Change and Real Power Shift. IEEE Transactions on Power Delivery, 2009, 24, 764-771.	4.3	215
87	Model of a synthetic wind speed time series generator. Wind Energy, 2008, 11, 193-209.	4.2	60
88	Windfarm Generation Assessment for Reliability Analysis of Power Systems. Wind Engineering, 2007, 31, 383-400.	1.9	5
89	Hybrid time/frequency domain modelling of nonlinear components. , 2007, , .		3
90	Probabilistic assessment of wind power production on voltage profile in distribution networks. , 2007, , .		8

#	ARTICLE	IF	CITATIONS
91	GPS-synchronized harmonic measurements performed on a 400kV transmission network. , 2007, , .		0