

Birgitte Bak-Jensen

List of Publications by Year in descending order

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91
papers

2,060
citations

430874

18
h-index

361022

35
g-index

92
all docs

92
docs citations

92
times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Integration of Vehicle-to-Grid in the Western Danish Power System. IEEE Transactions on Sustainable Energy, 2010, , .	8.8	203
3	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
4	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
5	Underfrequency Load Shedding for an Islanded Distribution System With Distributed Generators. IEEE Transactions on Power Delivery, 2010, 25, 911-918.	4.3	107
6	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
7	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
8	Review on islanding operation of distribution system with distributed generation. , 2011, , .		62
9	Model of a synthetic wind speed time series generator. Wind Energy, 2008, 11, 193-209.	4.2	60
10	Impacts of electric vehicle loads on power distribution systems. , 2010, , .		55
11	Design and Cosimulation of Hierarchical Architecture for Demand Response Control and Coordination. IEEE Transactions on Industrial Informatics, 2017, 13, 1806-1816.	11.3	46
12	Robust Self-Scheduling of Operational Processes for Industrial Demand Response Aggregators. IEEE Transactions on Industrial Electronics, 2020, 67, 1387-1395.	7.9	45
13	Modeling Daily Load Profiles of Distribution Network for Scenario Generation Using Flow-Based Generative Network. IEEE Access, 2020, 8, 77587-77597.	4.2	41
14	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
15	Predictive Control of Flexible Resources for Demand Response in Active Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 2957-2969.	6.5	36
16	Fuzzy adaptive particle swarm optimisation for power loss minimisation in distribution systems using optimal load response. IET Generation, Transmission and Distribution, 2014, 8, 1-10.	2.5	34
17	Optimal operation strategy of battery energy storage system to real-time electricity price in Denmark. , 2010, , .		32
18	Demand Response Control in Low Voltage Grids for Technical and Commercial Aggregation Services. IEEE Transactions on Smart Grid, 2016, 7, 2771-2780.	9.0	29

#	ARTICLE	IF	CITATIONS
19	Vehicle-to-grid systems for frequency regulation in an Islanded Danish distribution network. , 2010, , .		24
20	Integration of Electric Vehicles in low voltage Danish distribution grids. , 2012, , .		24
21	Vehicle-to-Grid for islanded power system operation in Bornholm. , 2010, , .		23
22	Flexible Demand Control to Enhance the Dynamic Operation of Low Voltage Networks. IEEE Transactions on Smart Grid, 2015, 6, 705-715.	9.0	22
23	An adaptive overcurrent protection in smart distribution grid. , 2015, , .		21
24	Markov model of wind power time series using Bayesian inference of transition matrix. , 2009, , .		19
25	Short-term power prediction for renewable energy using hybrid graph convolutional network and long short-term memory approach. Electric Power Systems Research, 2022, 211, 108614.	3.6	19
26	Multi-Time Scale Control of Demand Flexibility in Smart Distribution Networks. Energies, 2017, 10, 37.	3.1	18
27	Opportunities and challenges of demand response in active distribution networks. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e271.	4.1	18
28	Integrated Approach for Network Observability and State Estimation in Active Distribution Grid. Energies, 2019, 12, 2230.	3.1	18
29	Operation of power distribution networks with new and flexible loads: A case of existing residential low voltage network. Energy, 2020, 202, 117715.	8.8	17
30	Coordinated voltage control of distributed PV inverters for voltage regulation in low voltage distribution networks. , 2017, , .		16
31	Demand flexibility from residential heat pump. , 2014, , .		15
32	Optimum Aggregation and Control of Spatially Distributed Flexible Resources in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 5311-5322.	9.0	15
33	Flexibility from Electric Boiler and Thermal Storage for Multi Energy System Interaction. Energies, 2020, 13, 98.	3.1	14
34	Optimal Load Response to Time-of-Use Power Price for Demand Side Management in Denmark. , 2010, , .		13
35	Smart Grid Constraint Violation Management for Balancing and Regulating Purposes. IEEE Transactions on Industrial Informatics, 2017, 13, 2864-2875.	11.3	11
36	Operational flexibility of electrified transport and thermal units in distribution grid. International Journal of Electrical Power and Energy Systems, 2020, 121, 106029.	5.5	11

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37	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
38	Electric Vehicles to support large wind power penetration in future Danish power systems. , 2012, , .		10
39	An iterative approach for symmetrical and asymmetrical Short-circuit calculations with converter-based connected renewable energy sources. Application to wind power. , 2012, , .		10
40	Active control of thermostatic loads for economic and technical support to distribution grids. , 2016, , .		10
41	The Relationship Between Electricity Price and Wind Power Generation in Danish Electricity Markets. , 2010, , .		9
42	Overvoltage mitigation using coordinated control of demand response and grid-tied photovoltaics. , 2015, , .		9
43	Probabilistic assessment of wind power production on voltage profile in distribution networks. , 2007, , .		8
44	A simplified short term load forecasting method based on sequential patterns. , 2014, , .		8
45	Stochastic impact assessment of the heating and transportation systems electrification on LV grids. , 2014, , .		8
46	Optimal operation of electric vehicles in competitive electricity markets and its impact on distribution power systems. , 2011, , .		7
47	Generation of domestic hot water, space heating and driving pattern profiles for integration analysis of active loads in low voltage grids. , 2013, , .		7
48	Alkaline electrolyzer and V2G system DigSILENT models for demand response analysis in future distribution networks. , 2013, , .		7
49	A performance evaluation of future low voltage grids in presence of prosumers modelled in high temporal resolution. <i>Sustainable Cities and Society</i> , 2019, 44, 702-714.	10.4	7
50	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
51	Electric vehicles in low voltage residential grid: A danish case study. , 2012, , .		6
52	Allocation of power meters for online load distribution estimation in smart grids. , 2015, , .		6
53	The geographical aspect of flexibility in distribution grids. , 2015, , .		6
54	Estimation of Energy Activity and Flexibility Range in Smart Active Residential Building. <i>Smart Cities</i> , 2019, 2, 471-495.	9.4	6

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55	Incentive Price-Based Demand Response in Active Distribution Grids. Applied Sciences (Switzerland), 2021, 11, 180.	2.5	6
56	Windfarm Generation Assessment for Reliability Analysis of Power Systems. Wind Engineering, 2007, 31, 383-400.	1.9	5
57	Voltage support from electric vehicles in distribution grid. , 2013, , .		5
58	Probabilistic quantification of potentially flexible residential demand. , 2014, , .		5
59	Optimal sizing and allocation of residential photovoltaic panels in a distribution network for ancillary services application. , 2014, , .		5
60	An efficient multi-objective approach for designing of communication interfaces in smart grids. , 2016, , .		5
61	Utilization of Battery Storage for Flexible Power Management in Active Distribution Networks. , 2018, , .		5
62	Hierarchical learning optimisation method for the coordination dispatch of the interâ€Regional power grid considering the quality of service index. IET Generation, Transmission and Distribution, 2020, 14, 3673-3684.	2.5	5
63	Managing high penetration of renewable energy in MV grid by electric vehicle storage. , 2015, , .		4
64	Participation of flexible loads in load frequency control to support high wind penetration. , 2016, , .		4
65	Autonomous Controller for Flexible Operation of Heat Pumps in Low-Voltage Distribution Network. Energies, 2019, 12, 1482.	3.1	4
66	Assessment of Energy Arbitrage Using Energy Storage Systems: A Wind Parkâ€™s Perspective. Energies, 2021, 14, 4718.	3.1	4
67	Testing Requirements and Control Strategies of Next-Generation Grid Emulator: A Review. , 2022, , .		4
68	Hybrid time/frequency domain modelling of nonlinear components. , 2007, , .		3
69	Stochastic evaluation of maximum wind installation in a radial distribution network. , 2011, , .		3
70	Improving and handling electric vehicle penetration level by different smart charging algorithms in distribution grids. , 2015, , .		3
71	Battery Energy Storage Management for Smart Residential Buildings. , 2018, , .		3
72	Improving photovoltaic and electric vehicle penetration in distribution grids with smart transformer. , 2013, , .		2

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73	Mitigation of voltage sags in CIGRE low voltage distribution network. , 2013, , .		2
74	Study of DFIG wind turbine fault ride-through according to the Danish grid code. , 2013, , .		2
75	Integration of solar photovoltaics and electric vehicles in residential grids. , 2013, , .		2
76	Enhancing the observability of traditional distribution grids by strategic meter allocation. , 2015, , .		2
77	Multi-level control framework for enhanced flexibility of active distribution network. , 2017, , .		2
78	Multi-time-scale energy management of distributed energy resources in active distribution grids. , 2019, , 503-528.		2
79	Optimising Energy Flexibility of Boats in PV-BESS Based Marina Energy Systems. Energies, 2021, 14, 3397.	3.1	2
80	Measurement Based Scenario Analysis of Short-Range Distribution System Planning. , 2009, , .		1
81	Probabilistic analysis in normal operation of distribution system with distributed generation. , 2011, , .		1
82	Loss optimization in distribution networks with distributed generation. , 2017, , .		1
83	Impact of demand side management in active distribution networks. , 2017, , .		1
84	Optimum Aggregation and Control of Spatially Distributed Flexible Resources in Smart Grid. , 2018, , .		1
85	Effect of smart meter measurements data on distribution state estimation. , 2018, , .		1
86	Maximizing the self-consumption of Solar-PV using Battery Energy Storage System in SamsÅ-Marina. , 2019, , .		1
87	An Open-Source Toolbox with Classical Classifiers for Electricity Theft Detection. , 2021, , .		1
88	GPS-synchronized harmonic measurements performed on a 400kV transmission network. , 2007, , .		0
89	Charging schedule for Electric Vehicles in Danish residential distribution grids. , 2015, , .		0
90	Intelligent architecture for enhanced observability for active distribution system. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
91	Novel dynamic framework to form transmission tariffs with suitable economic signals. Electric Power Systems Research, 2022, 206, 107795.	3.6	0