

Jayakrishnan Radhakrishna Pillai

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

732
citations

933447

10
h-index

888059

17
g-index

59
all docs

59
docs citations

59
times ranked

870
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	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
3	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
4	Optimising Energy Flexibility of Boats in PV-BESS Based Marina Energy Systems. <i>Energies</i> , 2021, 14, 3397.	3.1	2
5	Incentive Price-Based Demand Response in Active Distribution Grids. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 180.	2.5	6
6	An Open-Source Toolbox with Classical Classifiers for Electricity Theft Detection. , 2021, , .		1
7	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
8	Flexibility from Electric Boiler and Thermal Storage for Multi Energy System Interaction. <i>Energies</i> , 2020, 13, 98.	3.1	14
9	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
10	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
11	Primary frequency regulation supported by battery storage systems in power system dominated by renewable energy sources. <i>Journal of Engineering</i> , 2019, 2019, 4986-4990.	1.1	11
12	Integrated Approach for Network Observability and State Estimation in Active Distribution Grid. <i>Energies</i> , 2019, 12, 2230.	3.1	18
13	Local coordinated control of heat pumps and PV systems in residential distribution grids. , 2019, , .		0
14	Autonomous Controller for Flexible Operation of Heat Pumps in Low-Voltage Distribution Network. <i>Energies</i> , 2019, 12, 1482.	3.1	4
15	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
16	Maximizing the self-consumption of Solar-PV using Battery Energy Storage System in Samsã-Marina. , 2019, , .		1
17	Estimation of Energy Activity and Flexibility Range in Smart Active Residential Building. <i>Smart Cities</i> , 2019, 2, 471-495.	9.4	6
18	Opportunities and challenges of demand response in active distribution networks. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018, 7, e271.	4.1	18

#	ARTICLE	IF	CITATIONS
19	Primary Frequency Regulation with Battery Energy Storages in Wind Dominated Power System. , 2018, , .		1
20	Estimation and Sizing of Frequency Reserves from Flexible Demand Units. , 2018, , .		0
21	Utilization of Battery Storage for Flexible Power Management in Active Distribution Networks. , 2018, , .		5
22	Frequency Control with Flexible Demand and Storages to Support Large Renewable Energy Generation. , 2018, , .		2
23	Effect of smart meter measurements data on distribution state estimation. , 2018, , .		1
24	The issue of unit constraints and the non-confiscatory electricity market. , 2017, , .		0
25	Coordinated voltage control of distributed PV inverters for voltage regulation in low voltage distribution networks. , 2017, , .		16
26	Loss optimization in distribution networks with distributed generation. , 2017, , .		1
27	Multi-level control framework for enhanced flexibility of active distribution network. , 2017, , .		2
28	Impact of demand side management in active distribution networks. , 2017, , .		1
29	Intelligent architecture for enhanced observability for active distribution system. , 2017, , .		0
30	Long Term Expected Revenue of Wind Farms Considering the Bidding Admission Uncertainty. Energies, 2016, 9, 945.	3.1	4
31	Participation of flexible loads in load frequency control to support high wind penetration. , 2016, , .		4
32	Active control of thermostatic loads for economic and technical support to distribution grids. , 2016, , .		10
33	Resilience of urban smart grids involving multiple control loops. , 2016, , .		1
34	Allocation of power meters for online load distribution estimation in smart grids. , 2015, , .		6
35	Hosting capacity of solar photovoltaics in distribution grids under different pricing schemes. , 2015, , .		7
36	Improving and handling electric vehicle penetration level by different smart charging algorithms in distribution grids. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	Overvoltage mitigation using coordinated control of demand response and grid-tied photovoltaics. , 2015, , .		9
38	Enhancing the observability of traditional distribution grids by strategic meter allocation. , 2015, , .		2
39	Decentralized voltage control coordination of on-load tap changer transformers, distributed generation units and flexible loads. , 2015, , .		7
40	Charging schedule for Electric Vehicles in Danish residential distribution grids. , 2015, , .		0
41	The geographical aspect of flexibility in distribution grids. , 2015, , .		6
42	An adaptive overcurrent protection in smart distribution grid. , 2015, , .		21
43	Managing high penetration of renewable energy in MV grid by electric vehicle storage. , 2015, , .		4
44	A simplified short term load forecasting method based on sequential patterns. , 2014, , .		8
45	Impact of reconfiguration period and photovoltaic penetration on distribution grid reconfiguration. , 2014, , .		0
46	Optimal sizing and allocation of residential photovoltaic panels in a distribution network for ancillary services application. , 2014, , .		5
47	Improving photovoltaic and electric vehicle penetration in distribution grids with smart transformer. , 2013, , .		2
48	Intelligent control of flexible loads for improving low voltage grids utilization. , 2013, , .		6
49	Scenario analysis to account for photovoltaic generation uncertainty in distribution grid reconfiguration. , 2013, , .		1
50	Voltage support from electric vehicles in distribution grid. , 2013, , .		5
51	Integration of solar photovoltaics and electric vehicles in residential grids. , 2013, , .		2
52	Integration of Electric Vehicles in low voltage Danish distribution grids. , 2012, , .		24
53	Electric vehicles in low voltage residential grid: A danish case study. , 2012, , .		6
54	Electric Vehicles to support large wind power penetration in future Danish power systems. , 2012, , .		10

#	ARTICLE	IF	CITATIONS
55	Integration of Vehicle-to-Grid in the Western Danish Power System. IEEE Transactions on Sustainable Energy, 2010, , .	8.8	203
56	Vehicle-to-grid systems for frequency regulation in an Islanded Danish distribution network. , 2010, , .		24
57	Vehicle-to-Grid for islanded power system operation in Bornholm. , 2010, , .		23
58	Impacts of electric vehicle loads on power distribution systems. , 2010, , .		55