

# 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	Integration of Vehicle-to-Grid in the Western Danish Power System. IEEE Transactions on Sustainable Energy, 2010, , .	8.8	203
2	Impacts of electric vehicle loads on power distribution systems. , 2010, , .		55
3	Robust Self-Scheduling of Operational Processes for Industrial Demand Response Aggregators. IEEE Transactions on Industrial Electronics, 2020, 67, 1387-1395.	7.9	45
4	Modeling Daily Load Profiles of Distribution Network for Scenario Generation Using Flow-Based Generative Network. IEEE Access, 2020, 8, 77587-77597.	4.2	41
5	Predictive Control of Flexible Resources for Demand Response in Active Distribution Networks. IEEE Transactions on Power Systems, 2019, 34, 2957-2969.	6.5	36
6	Vehicle-to-grid systems for frequency regulation in an Islanded Danish distribution network. , 2010, , .		24
7	Integration of Electric Vehicles in low voltage Danish distribution grids. , 2012, , .		24
8	Vehicle-to-Grid for islanded power system operation in Bornholm. , 2010, , .		23
9	An adaptive overcurrent protection in smart distribution grid. , 2015, , .		21
10	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
11	Opportunities and challenges of demand response in active distribution networks. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e271.	4.1	18
12	Integrated Approach for Network Observability and State Estimation in Active Distribution Grid. Energies, 2019, 12, 2230.	3.1	18
13	Coordinated voltage control of distributed PV inverters for voltage regulation in low voltage distribution networks. , 2017, , .		16
14	Flexibility from Electric Boiler and Thermal Storage for Multi Energy System Interaction. Energies, 2020, 13, 98.	3.1	14
15	Primary frequency regulation supported by battery storage systems in power system dominated by renewable energy sources. Journal of Engineering, 2019, 2019, 4986-4990.	1.1	11
16	Deep neural network-based hierarchical learning method for dispatch control of multi-regional power grid. Neural Computing and Applications, 2022, 34, 5063-5079.	5.6	11
17	Electric Vehicles to support large wind power penetration in future Danish power systems. , 2012, , .		10
18	Active control of thermostatic loads for economic and technical support to distribution grids. , 2016, , .		10

#	ARTICLE	IF	CITATIONS
19	Overvoltage mitigation using coordinated control of demand response and grid-tied photovoltaics. , 2015, , .		9
20	A simplified short term load forecasting method based on sequential patterns. , 2014, , .		8
21	Hosting capacity of solar photovoltaics in distribution grids under different pricing schemes. , 2015, , .		7
22	Decentralized voltage control coordination of on-load tap changer transformers, distributed generation units and flexible loads. , 2015, , .		7
23	Scenario prediction for power loads using a pixel convolutional neural network and an optimization strategy. Energy Reports, 2022, 8, 6659-6671.	5.1	7
24	Electric vehicles in low voltage residential grid: A danish case study. , 2012, , .		6
25	Intelligent control of flexible loads for improving low voltage grids utilization. , 2013, , .		6
26	Allocation of power meters for online load distribution estimation in smart grids. , 2015, , .		6
27	The geographical aspect of flexibility in distribution grids. , 2015, , .		6
28	Estimation of Energy Activity and Flexibility Range in Smart Active Residential Building. Smart Cities, 2019, 2, 471-495.	9.4	6
29	Incentive Price-Based Demand Response in Active Distribution Grids. Applied Sciences (Switzerland), 2021, 11, 180.	2.5	6
30	Voltage support from electric vehicles in distribution grid. , 2013, , .		5
31	Optimal sizing and allocation of residential photovoltaic panels in a distribution network for ancillary services application. , 2014, , .		5
32	Utilization of Battery Storage for Flexible Power Management in Active Distribution Networks. , 2018, , .		5
33	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
34	Managing high penetration of renewable energy in MV grid by electric vehicle storage. , 2015, , .		4
35	Long Term Expected Revenue of Wind Farms Considering the Bidding Admission Uncertainty. Energies, 2016, 9, 945.	3.1	4
36	Participation of flexible loads in load frequency control to support high wind penetration. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
37	Autonomous Controller for Flexible Operation of Heat Pumps in Low-Voltage Distribution Network. Energies, 2019, 12, 1482.	3.1	4
38	Improving and handling electric vehicle penetration level by different smart charging algorithms in distribution grids. , 2015, , .		3
39	Improving photovoltaic and electric vehicle penetration in distribution grids with smart transformer. , 2013, , .		2
40	Integration of solar photovoltaics and electric vehicles in residential grids. , 2013, , .		2
41	Enhancing the observability of traditional distribution grids by strategic meter allocation. , 2015, , .		2
42	Multi-level control framework for enhanced flexibility of active distribution network. , 2017, , .		2
43	Frequency Control with Flexible Demand and Storages to Support Large Renewable Energy Generation. , 2018, , .		2
44	Optimising Energy Flexibility of Boats in PV-BESS Based Marina Energy Systems. Energies, 2021, 14, 3397.	3.1	2
45	Scenario analysis to account for photovoltaic generation uncertainty in distribution grid reconfiguration. , 2013, , .		1
46	Resilience of urban smart grids involving multiple control loops. , 2016, , .		1
47	Loss optimization in distribution networks with distributed generation. , 2017, , .		1
48	Impact of demand side management in active distribution networks. , 2017, , .		1
49	Primary Frequency Regulation with Battery Energy Storages in Wind Dominated Power System. , 2018, , .		1
50	Effect of smart meter measurements data on distribution state estimation. , 2018, , .		1
51	Maximizing the self-consumption of Solar-PV using Battery Energy Storage System in Samsã-Marina. , 2019, , .		1
52	An Open-Source Toolbox with Classical Classifiers for Electricity Theft Detection. , 2021, , .		1
53	Impact of reconfiguration period and photovoltaic penetration on distribution grid reconfiguration. , 2014, , .		0
54	Charging schedule for Electric Vehicles in Danish residential distribution grids. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
55	The issue of unit constraints and the non-confiscatory electricity market. , 2017, , .		0
56	Intelligent architecture for enhanced observability for active distribution system. , 2017, , .		0
57	Estimation and Sizing of Frequency Reserves from Flexible Demand Units. , 2018, , .		0
58	Local coordinated control of heat pumps and PV systems in residential distribution grids. , 2019, , .		0