Moein Moeini-Aghtaie

List of Publications by Year
in descending order

112	4,123	109321	123424
papers	citations	35 h-index	61 g-index

112	112	112	3036
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancing Power System Resilience Through Hierarchical Outage Management in Multi-Microgrids. IEEE Transactions on Smart Grid, 2016, 7, 2869-2879.	9.0	317
2	A Decomposed Solution to Multiple-Energy Carriers Optimal Power Flow. IEEE Transactions on Power Systems, 2014, 29, 707-716.	6.5	225
3	A Stochastic Multi-Objective Framework for Optimal Scheduling of Energy Storage Systems in Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 117-127.	9.0	188
4	A Practical Scheme to Involve Degradation Cost of Lithium-Ion Batteries in Vehicle-to-Grid Applications. IEEE Transactions on Sustainable Energy, 2016, 7, 1730-1738.	8.8	177
5	Multiagent Genetic Algorithm: An Online Probabilistic View on Economic Dispatch of Energy Hubs Constrained by Wind Availability. IEEE Transactions on Sustainable Energy, 2014, 5, 699-708.	8.8	168
6	Energy Storage Planning for Enhanced Resilience of Power Distribution Networks Against Earthquakes. IEEE Transactions on Sustainable Energy, 2020, 11, 795-806.	8.8	144
7	Incorporating Large-Scale Distant Wind Farms in Probabilistic Transmission Expansion Planningâ€"Part I: Theory and Algorithm. IEEE Transactions on Power Systems, 2012, 27, 1585-1593.	6.5	141
8	Stochastic Energy Management of Microgrids During Unscheduled Islanding Period. IEEE Transactions on Industrial Informatics, 2017, 13, 1079-1087.	11.3	131
9	A Decentralized Energy Management Framework for Energy Hubs in Dynamic Pricing Markets. IEEE Transactions on Smart Grid, 2018, 9, 6780-6792.	9.0	130
10	Role of Outage Management Strategy in Reliability Performance of Multi-Microgrid Distribution Systems. IEEE Transactions on Power Systems, 2018, 33, 2359-2369.	6.5	127
11	On the Use of Pumped Storage for Wind Energy Maximization in Transmission-Constrained Power Systems. IEEE Transactions on Power Systems, 2015, 30, 1017-1025.	6.5	98
12	Reliability Studies of Modern Distribution Systems Integrated With Renewable Generation and Parking Lots. IEEE Transactions on Sustainable Energy, 2017, 8, 431-440.	8.8	96
13	Optimized Probabilistic PHEVs Demand Management in the Context of Energy Hubs. IEEE Transactions on Power Delivery, 2015, 30, 996-1006.	4.3	91
14	Detecting the Location of Short-Circuit Faults in Active Distribution Network Using PMU-Based State Estimation. IEEE Transactions on Smart Grid, 2020, 11, 1396-1406.	9.0	89
15	Energy storage in renewableâ€based residential energy hubs. IET Generation, Transmission and Distribution, 2016, 10, 3127-3134.	2.5	75
16	Reliability Studies of Distribution Systems Integrated With Electric Vehicles Under Battery-Exchange Mode. IEEE Transactions on Power Delivery, 2016, 31, 2473-2482.	4.3	75
17	Generalized Analytical Approach to Assess Reliability of Renewable-Based Energy Hubs. IEEE Transactions on Power Systems, 2017, 32, 368-377.	6.5	71
18	Commercial Demand Response Programs in Bidding of a Technical Virtual Power Plant. IEEE Transactions on Industrial Informatics, 2018, 14, 5100-5111.	11.3	71

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19	Toward a Comprehensive Model of Large-Scale DFIG-Based Wind Farms in Adequacy Assessment of Power Systems. IEEE Transactions on Sustainable Energy, 2014, 5, 55-63.	8.8	61
20	The energy hub: An extensive survey on the state-of-the-art. Applied Thermal Engineering, 2019, 161, 114071.	6.0	59
21	Optimal Bidding Strategy of Transactive Agents in Local Energy Markets. IEEE Transactions on Smart Grid, 2019, 10, 5152-5162.	9.0	52
22	Distribution System Resilience Enhancement via Mobile Emergency Generators. IEEE Transactions on Power Delivery, 2021, 36, 2308-2319.	4.3	49
23	Resilienceâ€based framework for switch placement problem in power distribution systems. IET Generation, Transmission and Distribution, 2018, 12, 1223-1230.	2.5	48
24	Incorporating Large-Scale Distant Wind Farms in Probabilistic Transmission Expansion Planningâ€”Part II: Case Studies. IEEE Transactions on Power Systems, 2012, 27, 1594-1601.	6.5	47
25	Online Multicriteria Framework for Charging Management of PHEVs. IEEE Transactions on Vehicular Technology, 2014, 63, 3028-3037.	6.3	47
26	A scenario-based planning framework for energy storage systems with the main goal of mitigating wind curtailment issue. International Journal of Electrical Power and Energy Systems, 2019, 104, 414-422.	5.5	47
27	Decentralized transactive energy management of multi-microgrid distribution systems based on ADMM. International Journal of Electrical Power and Energy Systems, 2021, 132, 107126.	5.5	47
28	MILP Model of Electricity Distribution System Expansion Planning Considering Incentive Reliability Regulations. IEEE Transactions on Power Systems, 2019, 34, 4300-4316.	6.5	44
29	Harnessing Ramp Capability of Spinning Reserve Services for Enhanced Power Grid Flexibility. IEEE Transactions on Industry Applications, 2019, 55, 7103-7112.	4.9	42
30	A Market Mechanism to Quantify Emergency Energy Transactions Value in a Multi-Microgrid System. IEEE Transactions on Sustainable Energy, 2019, 10, 426-437.	8.8	42
31	A MILP Model for Incorporating Reliability Indices in Distribution System Expansion Planning. IEEE Transactions on Power Systems, 2019, 34, 2453-2456.	6.5	41
32	Long-term planning of integrated local energy systems using deep learning algorithms. International Journal of Electrical Power and Energy Systems, 2021, 129, 106855.	5.5	41
33	A bi-level model for optimal bidding of a multi-carrier technical virtual power plant in energy markets. International Journal of Electrical Power and Energy Systems, 2021, 125, 106397.	5.5	40
34	Enhancing Resilience Level of Power Distribution Systems Using Proactive Operational Actions. IEEE Access, 2019, 7, 137378-137389.	4.2	39
35	Joint Expansion Planning Studies of EV Parking Lots Placement and Distribution Network. IEEE Transactions on Industrial Informatics, 2020, 16, 6455-6465.	11.3	38
36	Operational Reliability Studies of Power Systems in the Presence of Energy Storage Systems. IEEE Transactions on Power Systems, 2018, 33, 3691-3700.	6.5	36

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37	Developing a multi-objective framework for expansion planning studies of distributed energy storage systems (DESSs). Energy, 2018, 157, 1079-1089.	8.8	36
38	Developing a Distributed Robust Energy Management Framework for Active Distribution Systems. IEEE Transactions on Sustainable Energy, 2021, 12, 1891-1902.	8.8	34
39	Optimal Placement of Protective and Controlling Devices in Electric Power Distribution Systems: A MIP Model. IEEE Access, 2019, 7, 122827-122837.	4.2	33
40	Transactive Energy Market Mechanism With Loss Implication. IEEE Transactions on Smart Grid, 2021, 12, 1215-1223.	9.0	33
41	Network-Constrained Transactive Coordination for Plug-In Electric Vehicles Participation in Real-Time Retail Electricity Markets. IEEE Transactions on Sustainable Energy, 2021, 12, 1439-1448.	8.8	33
42	Main Challenges of Implementing Penalty Mechanisms in Transactive Electricity Markets. IEEE Transactions on Power Systems, 2019, 34, 3954-3956.	6.5	25
43	Expansion Planning Studies of Independent-Locally Operated Battery Energy Storage Systems (BESSs): A CVaR-Based Study. IEEE Transactions on Sustainable Energy, 2020, 11, 2109-2118.	8.8	25
44	Optimal allocation of PMUs in active distribution network considering reliability of state estimation results. IET Generation, Transmission and Distribution, 2020, 14, 3641-3651.	2.5	25
45	Distribution systems resilience enhancement via preâ€•and postâ€•event actions. IET Smart Grid, 2019, 2, 549-556.	2.2	24
46	Modeling and Optimizing Recovery Strategies for Power Distribution System Resilience. IEEE Systems Journal, 2021, 15, 4725-4734.	4.6	24
47	Incorporating flexibility requirements into distribution system expansion planning studies based on regulatory policies. International Journal of Electrical Power and Energy Systems, 2020, 118, 105769.	5.5	23
48	Probabilistic multi-objective transmission investment and expansion planning. International Transactions on Electrical Energy Systems, 2015, 25, 1884-1904.	1.9	22
49	Stochastic framework for planning studies of energy systems: a case of EHs. IET Renewable Power Generation, 2020, 14, 435-444.	3.1	22
50	Utilization of in-pipe hydropower renewable energy technology and energy storage systems in mountainous distribution networks. Renewable Energy, 2021, 172, 789-801.	8.9	22
51	Local energy markets design for integrated distribution energy systems based on the concept of transactive peerâ€toâ€peer market. IET Generation, Transmission and Distribution, 2022, 16, 41-56.	2.5	22
52	Advanced bidding strategy for participation of energy storage systems in joint energy and flexible ramping product market. IET Generation, Transmission and Distribution, 2020, 14, 5202-5210.	2.5	22
53	Reliability evaluation of a composite power system containing wind and solar generation. , 2013, , .		21
54	Reliability assessment of distribution system with the integration of photovoltaic and energy storage systems. Sustainable Energy, Grids and Networks, 2021, 28, 100554.	3.9	20

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55	Increasing the resilience of distribution systems against hurricane by optimal switch placement. , 2017, , .		19
56	Transactive Energy Management of V2G-Capable Electric Vehicles in Residential Buildings: An MILP Approach. IEEE Transactions on Sustainable Energy, 2022, 13, 1734-1743.	8.8	19
57	A Bi-Level Framework for Expansion Planning in Active Power Distribution Networks. IEEE Transactions on Power Systems, 2022, 37, 2639-2654.	6.5	18
58	Load service restoration in active distribution network based on stochastic approach. IET Generation, Transmission and Distribution, 2018, 12, 3028-3036.	2.5	17
59	Developing new participation model of thermal generating units in flexible ramping market. IET Generation, Transmission and Distribution, 2019, 13, 2290-2298.	2.5	17
60	PHEVs centralized/decentralized charging control mechanisms: Requirements and impacts. , 2013, , .		16
61	Incorporating the effects of service quality regulation in decisionâ€making framework of distribution companies. IET Generation, Transmission and Distribution, 2018, 12, 4172-4181.	2.5	15
62	Reliability-Based Optimal Bidding Strategy of a Technical Virtual Power Plant. IEEE Systems Journal, 2022, 16, 1080-1091.	4.6	15
63	Pandemic-Aware Day-Ahead Demand Forecasting Using Ensemble Learning. IEEE Access, 2022, 10, 7098-7106.	4.2	15
64	Decision-Making Tree Analysis for Industrial Load Classification in Demand Response Programs. IEEE Transactions on Industry Applications, 2021, 57, 26-35.	4.9	14
65	Developing a new framework for transactive peerâ€toâ€peer thermal energy market. IET Generation, Transmission and Distribution, 2021, 15, 1984-1995.	2.5	14
66	Reliability-Based Expansion Planning Studies of Active Distribution Networks With Multiagents. IEEE Transactions on Smart Grid, 2022, 13, 4610-4623.	9.0	14
67	A hierarchical scheme for outage management in multi-microgrids. International Transactions on Electrical Energy Systems, 2016, 26, 2023-2037.	1.9	13
68	Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. IEEE Transactions on Smart Grid, 2020, 11, 1781-1791.	9.0	13
69	Developing a multi-objective multi-layer model for optimal design of residential complex energy systems. International Journal of Electrical Power and Energy Systems, 2022, 138, 107889.	5.5	12
70	A User-Friendly Transactive Coordination Model for Residential Prosumers Considering Voltage Unbalance in Distribution Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 5748-5759.	11.3	12
71	Energy scheduling of a technical virtual power plant in presence of electric vehicles. , 2017, , .		11
72	Developing a Market-Oriented Approach for Supplying Flexibility Ramping Products in a Multimicrogrid Distribution System. IEEE Transactions on Industrial Informatics, 2021, 17, 6765-6775.	11.3	11

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73	Designing a new procedure for reward and penalty scheme in performance-based regulation of electricity distribution companies. International Transactions on Electrical Energy Systems, 2018, 28, e2628.	1.9	10
74	A linearized transmission expansion planning model under N â^' 1 criterion for enhancing gridâ€scale system flexibility via compressed air energy storage integration. IET Generation, Transmission and Distribution, 2022, 16, 208-218.	2.5	10
75	An online method for MILP coâ€planning model of largeâ€scale transmission expansion planning and energy storage systems considering Nâ€1 criterion. IET Generation, Transmission and Distribution, 2021, 15, 664-677.	2.5	9
76	Linear Voltage Based State Estimator for Active Distribution System Including Phasor Measurement Unit (PMU). , 2018, , .		8
77	Multistage Expansion Co-Planning of Integrated Natural Gas and Electricity Distribution Systems. Energies, 2019, 12, 1020.	3.1	8
78	Enhancing electricity market flexibility by deploying ancillary services for flexible ramping product procurement. Electric Power Systems Research, 2021, 191, 106878.	3.6	8
79	Improving direct load control implementation by an inititative load control method. , 2013, , .		7
80	Private Investor-based Transmission Expansion Planning in Deregulated Environments. Electric Power Components and Systems, 2015, 43, 620-632.	1.8	7
81	Developing a hierarchical scheme for outage management in multi-microgrids. , 2015, , .		7
82	Estimating abilities of distributed energy resources in providing flexible ramp products for active distribution networks. Sustainable Cities and Society, 2021, 65, 102593.	10.4	7
83	Energy Management Framework for a TVPP in Active Distribution Network with Diverse DERs. , 2019, , .		6
84	Techno-economic considerations on distributed generations (DGs) planning studies in power distribution systems. , 2014, , .		5
85	Developing a stochastic approach for optimal scheduling of isolated microgrids. , 2015, , .		5
86	A Novel Multi-Area Distribution State Estimation Approach for Active Networks. Energies, 2021, 14, 1772.	3.1	5
87	Toward Operational Resilience of Smart Energy Networks in Complex Infrastructures. Advances in Intelligent Systems and Computing, 2020, , 203-228.	0.6	5
88	Considering forecasting errors in flexibilityâ€oriented distribution network expansion planning using the spherical simplex unscented transformation. IET Generation, Transmission and Distribution, 2020, 14, 5970-5983.	2.5	5
89	Operational strategy optimization of a hybrid green power system based on fuzzy logic controller with considering for optimal sizing and analysis of different priorities for energy storage. Sustainable Energy, Grids and Networks, 2022, 32, 100809.	3.9	5
90	Effects of flexible ramping product on improving power system real-time operation. , 2017, , .		4

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91	Day-ahead Resource Scheduling in Distribution Networks with Presence of Electric Vehicles and Distributed Generation Units. Electric Power Components and Systems, 2019, 47, 1450-1463.	1.8	4
92	Energy and Flexibility Scheduling of DERs under TVPPâ€™s Supervision using Market-Based Framework. , 2020, , .		4
93	Investigating the Effects of ESS Technologies on High Wind-Penetration Power Grids Considering Reliability Indices. , 2021, , .		3
94	Expansion planning of transmission networks. , 2021, , 35-56.		3
95	Deterministic and Probabilistic Models for Energy Management in Distribution Systems. Energy Systems, 2020, , 343-382.	0.5	3
96	Flexibility provision of residential energy hubs with demand response applications. IET Generation, Transmission and Distribution, 2022, 16, 1668-1679.	2.5	3
97	Charging/discharging management of electric vehicles: technical viewpoint. , 2016, , .		2
98	Optimal scheduling of renewable-based energy hubs considering time-of-use pricing scheme. , 2017, , .		2
99	Developing a MILP Method for Distribution System Reconfiguration After Natural Disasters. , 2018, , .		2
100	Assessing Operational Flexibility of Microgrids Considering Electrical and Thermal Energy Resources. , 2019, , .		2
101	A multi-objective framework for energy resource scheduling in active distribution networks. International Journal of Ambient Energy, 2019, 40, 504-516.	2.5	2
102	Reliability based Joint Distribution Network and Distributed Generation Expansion Planning. , 2020, , .		2
103	The impact of dispersed PV generation on ramp rate requirements. , 2012, , .		1
104	Pricing of transmission services: An efficient analysis based on fixed and variable imposed costs. , 2012, , .		1
105	Budgetâ€constrained drone allocation for distribution system damage assessment. IET Smart Grid, 0, , .	2.2	1
106	Determining the Optimum Network Division Scheme for Multi-area Distribution System State Estimation. , 2021, , .		1
107	Optimization model of a VPP to provide energy and reserve. , 2022, , 59-109.		1
108	Charging/discharging management of electric vehicles: Technical viewpoint. , 2015, , .		0

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109	Developing a multi-objective framework for planning studies of modern distribution networks. , 2016, , .		0
110	Enhancing Power Distribution System Flexibility Using Electric Vehicle Charging Management. , 2019, , .		0
111	Optimal operation strategy of virtual power plant considering EVs and ESSs. , 2022, , 257-297.		0
112	A Robust MPC Method for Post-Disaster Distribution System Reconfiguration based on Repair Crew Routing. , 2022, , .		0