

Mahdi Pourakbari Kasmaei

List of Publications by Year in descending order

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73
papers

1,554
citations

257101

24
h-index

329751

37
g-index

73
all docs

73
docs citations

73
times ranked

1140
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient particle swarm optimization algorithm to solve optimal power flow problem integrated with FACTS devices. <i>Applied Soft Computing Journal</i> , 2019, 80, 243-262.	4.1	128
2	Optimal location-allocation of storage devices and renewable-based DG in distribution systems. <i>Electric Power Systems Research</i> , 2019, 172, 11-21.	2.1	96
3	A novel hybrid self-adaptive heuristic algorithm to handle single- and multi-objective optimal power flow problems. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 125, 106492.	3.3	86
4	A stochastic mixed-integer convex programming model for long-term distribution system expansion planning considering greenhouse gas emission mitigation. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 108, 86-95.	3.3	64
5	Adaptive Robust Short-Term Planning of Electrical Distribution Systems Considering Siting and Sizing of Renewable Energy Based DG Units. <i>IEEE Transactions on Sustainable Energy</i> , 2019, 10, 158-169.	5.9	60
6	Transmission expansion planning integrated with wind farms: A review, comparative study, and a novel profound search approach. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 115, 105460.	3.3	58
7	Trilateral Planning Model for Integrated Community Energy Systems and PV-Based Prosumers—A Bilevel Stochastic Programming Approach. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 346-361.	4.6	55
8	A risk-based optimal self-scheduling of smart energy hub in the day-ahead and regulation markets. <i>Journal of Cleaner Production</i> , 2021, 279, 123631.	4.6	50
9	A novel energy scheduling framework for reliable and economic operation of islanded and grid-connected microgrids. <i>Electric Power Systems Research</i> , 2019, 171, 85-96.	2.1	48
10	Optimal Delivery Scheduling and Charging of EVs in the Navigation of a City Map. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 4815-4827.	6.2	47
11	Optimal siting and sizing of renewable energy sources, storage devices, and reactive support devices to obtain a sustainable electrical distribution systems. <i>Energy Systems</i> , 2018, 9, 529-550.	1.8	45
12	An implementation of harmony search algorithm to unit commitment problem. <i>Electrical Engineering</i> , 2010, 92, 215-225.	1.2	40
13	Carbon Footprint Management: A Pathway Toward Smart Emission Abatement. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 935-948.	7.2	39
14	Optimal power flow problem considering multiple-fuel options and disjoint operating zones: A solver-friendly MINLP model. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 113, 45-55.	3.3	38
15	An economic-environmental asset planning in electric distribution networks considering carbon emission trading and demand response. <i>Electric Power Systems Research</i> , 2020, 181, 106202.	2.1	38
16	A hybrid decentralized stochastic-robust model for optimal coordination of electric vehicle aggregator and energy hub entities. <i>Applied Energy</i> , 2021, 304, 117708.	5.1	37
17	An effortless hybrid method to solve economic load dispatch problem in power systems. <i>Energy Conversion and Management</i> , 2011, 52, 2854-2860.	4.4	35
18	Logically constrained optimal power flow: Solver-based mixed-integer nonlinear programming model. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 97, 240-249.	3.3	35

#	ARTICLE	IF	CITATIONS
19	Uncertainty-Based Models for Optimal Management of Energy Hubs Considering Demand Response. <i>Energies</i> , 2019, 12, 1413.	1.6	35
20	Bonus-Based Demand Response Using Stackelberg Game Approach for Residential End-Users Equipped With HVAC System. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 234-249.	5.9	33
21	State-of-the-Art of Optimal Active and Reactive Power Flow: A Comprehensive Review from Various Standpoints. <i>Processes</i> , 2021, 9, 1319.	1.3	33
22	A taxonomy of machine learning applications for virtual power plants and home/building energy management systems. <i>Automation in Construction</i> , 2022, 136, 104174.	4.8	31
23	A Mixed Integer Conic Model for Distribution Expansion Planning: Mathuristic Approach. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 3932-3943.	6.2	26
24	A medium-term hybrid IGDT-Robust optimization model for optimal self scheduling of multi-carrier energy systems. <i>Energy</i> , 2022, 238, 121661.	4.5	26
25	A max-min-max robust optimization model for multi-carrier energy systems integrated with power to gas storage system. <i>Journal of Energy Storage</i> , 2022, 48, 103933.	3.9	26
26	A stochastic mixed-integer conic programming model for distribution system expansion planning considering wind generation. <i>Energy Systems</i> , 2018, 9, 551-571.	1.8	22
27	Environmentally constrained reliability-based generation maintenance scheduling considering demand-side management. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 1153-1163.	1.4	21
28	An unequivocal normalization-based paradigm to solve dynamic economic and emission active-reactive OPF (optimal power flow). <i>Energy</i> , 2014, 73, 554-566.	4.5	20
29	Multi-area environmentally constrained active-reactive optimal power flow: a short-term tie line planning study. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 299-309.	1.4	19
30	Matching of Local Load with On-Site PV Production in a Grid-Connected Residential Building. <i>Energies</i> , 2018, 11, 2409.	1.6	19
31	An Unambiguous Distance-Based MIQP Model to Solve Economic Dispatch Problems with Disjoint Operating Zones. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 825-826.	4.6	18
32	Voltage-dependent load-based short-term distribution network planning considering carbon tax surplus. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 3760-3770.	1.4	15
33	Minimizing Wind Power Curtailment and Carbon Emissions by Power to Heat Sector Coupling: A Stackelberg Game Approach. <i>IEEE Access</i> , 2020, 8, 211892-211911.	2.6	15
34	Efficient Automation of an HEV Heterogeneous Fleet Using a Two-Stage Methodology. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 9494-9506.	3.9	14
35	Optimal Selection of Navigation Modes of HEVs Considering CO ₂ Emissions Reduction. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 2196-2206.	3.9	14
36	Comparison of Economical and Technical Photovoltaic Hosting Capacity Limits in Distribution Networks. <i>Energies</i> , 2021, 14, 2405.	1.6	13

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37	A Demand-Side Management-Based Model for G&T&P Problem Considering FSC Allocation. IEEE Systems Journal, 2019, 13, 3242-3253.	2.9	11
38	Intelligent Energy Management in a Prosumer Community Considering the Load Factor Enhancement. Energies, 2021, 14, 3624.	1.6	11
39	Optimal Bilevel Operation-Planning Framework of Distributed Generation Hosting Capacity Considering Rival DISCO and EV Aggregator. IEEE Systems Journal, 2022, 16, 5023-5034.	2.9	11
40	Dynamic Market-Based Generation-Transmission Expansion Planning Considering Fixed Series Compensation Allocation. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2017, 41, 305-317.	1.5	9
41	An Incentive Based Demand Response by HVAC Systems in Residential Houses. , 2019, , .		9
42	The role of EV based peer-to-peer transactive energy hubs in distribution network optimization. Applied Energy, 2022, 319, 119267.	5.1	9
43	Transmission expansion planning via a constructive heuristic algorithm in restructured electricity industry. , 2013, , .		8
44	Environmentally committed short-term planning of electrical distribution systems considering renewable based DG siting and sizing. , 2017, , .		8
45	Optimizing Power and Heat Sector Coupling for the Implementation of Carbon-Free Communities. Energies, 2021, 14, 1911.	1.6	8
46	An unproblematic method to solve economic and emission dispatch. , 2011, , .		6
47	Evaluation of Filtered Spark Gap on the Lightning Protection of Distribution Transformers: Experimental and Simulation Study. Energies, 2020, 13, 3799.	1.6	6
48	A Prediction Model For Lightning-Induced Overvoltages Over Lossy Ground Using Gaussian Process Regression. IEEE Transactions on Power Delivery, 2022, 37, 2757-2765.	2.9	6
49	A modified Branch and Bound algorithm to solve the transmission expansion planning problem. , 2013, , .		5
50	A demand power factor-based approach for finding the maximum loading point. Electric Power Systems Research, 2017, 151, 283-295.	2.1	5
51	A Novel Unit Commitment Technique Considering Prohibited Operating Zones. Journal of Applied Sciences, 2009, 9, 2962-2968.	0.1	5
52	An Approach to Divide Wind Power Capacity Between Day-Ahead Energy and Intraday Reserve Power Markets. IEEE Systems Journal, 2022, 16, 1123-1134.	2.9	4
53	Convex Formulation for Optimal Active and Reactive Power Dispatch. IEEE Latin America Transactions, 2022, 20, 787-798.	1.2	4
54	Strategic Biddings of a Consumer demand in both DA and Balancing Markets in Response to Renewable Energy Integration. Electric Power Systems Research, 2022, 210, 108132.	2.1	4

#	ARTICLE	IF	CITATIONS
55	Enhancing the Protective Performance of Surge Arresters against Indirect Lightning Strikes via an Inductor-Based Filter. <i>Energies</i> , 2020, 13, 4754.	1.6	3
56	Optimized Protection of Pole-Mounted Distribution Transformers against Direct Lightning Strikes. <i>Energies</i> , 2020, 13, 4372.	1.6	3
57	Load Factor Assessment of the Electric Grid by the Optimal Scheduling of Electrical Equipment- A MIQCP Model. <i>IEEE Open Access Journal of Power and Energy</i> , 2021, 8, 433-447.	2.5	3
58	Multi-Alternative Operation-Planning Problem of Wind Farms Participating in Gas and Electricity Markets. <i>IEEE Access</i> , 2021, 9, 166825-166837.	2.6	3
59	A novel straightforward compromising method for dynamic economic and emission dispatch considering valve-point effect. , 2013, , .		2
60	Carbon footprint allocation among consumers and transmission losses. , 2017, , .		2
61	Analysis of the Precision of a Second-Order Conic Model to Solve the Optimal Power Dispatch Problem in Electric Power Systems. <i>Journal of Control, Automation and Electrical Systems</i> , 2021, 32, 1356-1364.	1.2	2
62	Increasing Distributed Generation Hosting Capacity in Distribution Networks: A CO ₂ Emission Analysis. , 2020, , .		2
63	Risk Analysis of Wind Farm Paired with Assets in Electricity and Gas Markets. , 2021, , .		2
64	Bidding a Battery on Electricity Markets and Minimizing Battery Aging Costs: A Reinforcement Learning Approach. <i>Energies</i> , 2022, 15, 4960.	1.6	2
65	Evaluation of the Performance of HEV Technologies using a MILP Model to Minimize Pollutants Emissions. , 2018, , .		1
66	Robust Short-Term Electrical Distribution Network Planning Considering Simultaneous Allocation of Renewable Energy Sources and Energy Storage Systems. , 2019, , 145-175.		1
67	A NEW HYBRID HEURISTIC TECHNIQUE FOR UNIT COMMITMENT CONSIDERING SPINNING RESERVE PROBABILITY. , 2009, , .		0
68	A novel method to attain a compromised low emission and cost for generation scheduling. , 2010, , .		0
69	Congestion effects on regional & system emission and consumers allocated cost. , 2013, , .		0
70	An unambiguous distance-based MIQP model to solve economic dispatch problems with disjoint operating zones. , 2016, , .		0
71	A Branch and Bound algorithm to solve nonconvex MINLP problems via novel division strategy: An electric power system case study. , 2017, , .		0
72	Optimal Adjustment of Double Exponential Model Parameters to Reproduce the Laboratory Volt-Time Curve of Lightning Impulse. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	A Game Theory Approach for Maximum Utilization of Wind Power by DR in Residential Consumers. , 2020, , .		0