

Alireza Soroudi

List of Publications by Year in descending order

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93
papers

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147801

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96
all docs

96
docs citations

96
times ranked

2991
citing authors

#	ARTICLE	IF	CITATIONS
1	Decision making under uncertainty in energy systems: State of the art. Renewable and Sustainable Energy Reviews, 2013, 28, 376-384.	16.4	379
2	A Probabilistic Modeling of Photo Voltaic Modules and Wind Power Generation Impact on Distribution Networks. IEEE Systems Journal, 2012, 6, 254-259.	4.6	193
3	Power System Optimization Modeling in GAMS. , 2017, , .		184
4	Possibilistic-Scenario Model for DG Impact Assessment on Distribution Networks in an Uncertain Environment. IEEE Transactions on Power Systems, 2012, 27, 1283-1293.	6.5	151
5	Binary PSO-based dynamic multi-objective model for distributed generation planning under uncertainty. IET Renewable Power Generation, 2012, 6, 67.	3.1	138
6	Risk averse optimal operation of a virtual power plant using two stage stochastic programming. Energy, 2014, 73, 958-967.	8.8	137
7	Optimal DR and ESS Scheduling for Distribution Losses Payments Minimization Under Electricity Price Uncertainty. IEEE Transactions on Smart Grid, 2016, 7, 261-272.	9.0	131
8	Iteration PSO with time varying acceleration coefficients for solving non-convex economic dispatch problems. International Journal of Electrical Power and Energy Systems, 2012, 42, 508-516.	5.5	129
9	IGDT Based Robust Decision Making Tool for DNOs in Load Procurement Under Severe Uncertainty. IEEE Transactions on Smart Grid, 2013, 4, 886-895.	9.0	127
10	Corrective Voltage Control Scheme Considering Demand Response and Stochastic Wind Power. IEEE Transactions on Power Systems, 2014, 29, 2965-2973.	6.5	126
11	Imperialist competitive algorithm for solving non-convex dynamic economic power dispatch. Energy, 2012, 44, 228-240.	8.8	124
12	Possibilistic Evaluation of Distributed Generations Impacts on Distribution Networks. IEEE Transactions on Power Systems, 2011, 26, 2293-2301.	6.5	121
13	Information gap decision theory approach to deal with wind power uncertainty in unit commitment. Electric Power Systems Research, 2017, 145, 137-148.	3.6	114
14	A practical eco-environmental distribution network planning model including fuel cells and non-renewable distributed energy resources. Renewable Energy, 2011, 36, 179-188.	8.9	112
15	A distribution network expansion planning model considering distributed generation options and techno-economical issues. Energy, 2010, 35, 3364-3374.	8.8	99
16	Information Gap Decision Theory Based OPF With HVDC Connected Wind Farms. IEEE Transactions on Power Systems, 2015, 30, 3396-3406.	6.5	99
17	A possibilisticâ€“probabilistic tool for evaluating the impact of stochastic renewable and controllable power generation on energy losses in distribution networksâ€“A case study. Renewable and Sustainable Energy Reviews, 2011, 15, 794-800.	16.4	95
18	Robust optimization based self scheduling of hydro-thermal Genco in smart grids. Energy, 2013, 61, 262-271.	8.8	86

#	ARTICLE	IF	CITATIONS
19	Application of information gap decision theory in practical energy problems: A comprehensive review. <i>Applied Energy</i> , 2019, 249, 157-165.	10.1	86
20	Probabilistic dynamic multi-objective model for renewable and non-renewable distributed generation planning. <i>IET Generation, Transmission and Distribution</i> , 2011, 5, 1173.	2.5	84
21	Hybrid immune-genetic algorithm method for benefit maximisation of distribution network operators and distributed generation owners in a deregulated environment. <i>IET Generation, Transmission and Distribution</i> , 2011, 5, 961.	2.5	82
22	Nonconvex Dynamic Economic Power Dispatch Problems Solution Using Hybrid Immune-Genetic Algorithm. <i>IEEE Systems Journal</i> , 2013, 7, 777-785.	4.6	76
23	Stochastic Multiperiod OPF Model of Power Systems With HVDC-Connected Intermittent Wind Power Generation. <i>IEEE Transactions on Power Delivery</i> , 2014, 29, 336-344.	4.3	73
24	Probabilistic Under Frequency Load Shedding Considering RoCoF Relays of Distributed Generators. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 3587-3598.	6.5	72
25	Information Gap Decision Theory-Based Congestion and Voltage Management in the Presence of Uncertain Wind Power. <i>IEEE Transactions on Sustainable Energy</i> , 2016, 7, 841-849.	8.8	70
26	Simultaneous emergency demand response programming and unit commitment programming in comparison with interruptible load contracts. <i>IET Generation, Transmission and Distribution</i> , 2012, 6, 605.	2.5	58
27	Distribution networks' energy losses versus hosting capacity of wind power in the presence of demand flexibility. <i>Renewable Energy</i> , 2017, 102, 316-325.	8.9	55
28	Green hydrogen: A new flexibility source for security constrained scheduling of power systems with renewable energies. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19270-19284.	7.1	52
29	Optimal multi-area generation schedule considering renewable resources mix: a real-time approach. <i>IET Generation, Transmission and Distribution</i> , 2013, 7, 1011-1026.	2.5	44
30	Technical barriers for harnessing the green hydrogen: A power system perspective. <i>Renewable Energy</i> , 2021, 163, 1580-1587.	8.9	44
31	Probabilistic determination of pilot points for zonal voltage control. <i>IET Generation, Transmission and Distribution</i> , 2012, 6, 1.	2.5	37
32	Energy Hub Management with Intermittent Wind Power. <i>Green Energy and Technology</i> , 2014, , 413-438.	0.6	35
33	Stochastic Real-Time Scheduling of Wind-Thermal Generation Units in an Electric Utility. <i>IEEE Systems Journal</i> , 2017, 11, 1622-1631.	4.6	31
34	Information gap decision theory for voltage stability constrained OPF considering the uncertainty of multiple wind farms. <i>IET Renewable Power Generation</i> , 2017, 11, 585-592.	3.1	31
35	An auction framework to integrate dynamic transmission expansion planning and pay-as-bid wind connection auctions. <i>Applied Energy</i> , 2018, 228, 2462-2477.	10.1	31
36	Risk-Averse Preventive Voltage Control of AC/DC Power Systems Including Wind Power Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2015, 6, 1494-1505.	8.8	30

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37	Information gap decision theory to deal with long-term wind energy planning considering voltage stability. Energy, 2018, 147, 451-463.	8.8	30
38	Risk Averse Energy Hub Management Considering Plug-in Electric Vehicles Using Information Gap Decision Theory. Power Systems, 2015, , 107-127.	0.5	29
39	Decentralised flexibility management for EVs. IET Renewable Power Generation, 2019, 13, 952-960.	3.1	29
40	Efficient immune-AGA method for DNOs in sizing and placement of distributed generation units. European Transactions on Electrical Power, 2011, 21, 1361-1375.	1.0	28
41	Resiliency oriented integration of DSRs in transmission networks. IET Generation, Transmission and Distribution, 2017, 11, 2013-2022.	2.5	27
42	Robust multi-objective PQ scheduling for electric vehicles in flexible unbalanced distribution grids. IET Generation, Transmission and Distribution, 2017, 11, 4031-4040.	2.5	27
43	Robust computational framework for mid-term techno-economical assessment of energy storage. IET Generation, Transmission and Distribution, 2016, 10, 822-831.	2.5	25
44	Imperialist competition algorithm for distributed generation connections. IET Generation, Transmission and Distribution, 2012, 6, 21.	2.5	23
45	Optimal household energy management using V2H flexibilities. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 777-792.	0.9	23
46	Fault detection in distribution networks in presence of distributed generations using a data mining-driven wavelet transform. IET Smart Grid, 2019, 2, 163-171.	2.2	20
47	Distribution Network Operation Under Uncertainty Using Information Gap Decision Theory. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	16
48	Smart self-scheduling of Gencos with thermal and energy storage units under price uncertainty. International Transactions on Electrical Energy Systems, 2014, 24, 1401-1418.	1.9	14
49	Optimal flexibility coordination for energy procurement in distribution networks. IET Renewable Power Generation, 2021, 15, 1191-1203.	3.1	14
50	Distribution System Topology Identification for DER Management Systems Using Deep Neural Networks. , 2020, , .		14
51	Coordination of interdependent natural gas and electricity systems based on information gap decision theory. IET Generation, Transmission and Distribution, 2019, 13, 3362-3369.	2.5	13
52	Multi objective distributed generation planning in liberalized electricity markets. , 2008, , .		12
53	Taxonomy of Uncertainty Modeling Techniques in Renewable Energy System Studies. Green Energy and Technology, 2014, , 1-17.	0.6	12
54	Resilient Identification of Distribution Network Topology. IEEE Transactions on Power Delivery, 2021, 36, 2332-2342.	4.3	12

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55	Enhanced Transmission and Distribution Network Coordination to Host More Electric Vehicles and PV. IEEE Systems Journal, 2022, 16, 2705-2716.	4.6	12
56	Multi objective distributed generation planning using NSGA-II. , 2008, , .		11
57	Application of a Modified NSGA Method for Multi-Objective Static Distributed Generation Planning. Arabian Journal for Science and Engineering, 2011, 36, 809-825.	1.1	11
58	Strategic Scheduling of Discrete Control Devices in Active Distribution Systems. IEEE Transactions on Power Delivery, 2020, 35, 2285-2299.	4.3	11
59	Uncertainty management in decision-making in power system operation. , 2020, , 41-62.		9
60	Information gap decision theory based OPF with HVDC connected wind farms. , 2015, , .		8
61	Restoration strategy in a self-healing distribution network with DG and flexible loads. , 2016, , .		8
62	Controllable transmission networks under demand uncertainty with modular FACTS. International Journal of Electrical Power and Energy Systems, 2021, 130, 106978.	5.5	7
63	Power to air transportation via hydrogen. IET Renewable Power Generation, 2020, 14, 3384-3392.	3.1	7
64	Robust optimization based EV charging. , 2014, , .		6
65	Assessing the Scalability and Privacy of Energy Communities by Using a Large-Scale Distributed and Parallel Real-Time Optimization. IEEE Access, 2022, 10, 69771-69787.	4.2	6
66	The effects of enviromental parameters on wind turbine power PDF curve. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	5
67	Fast Resource Scheduling for Distribution Systems Enabled With Discrete Control Devices. IEEE Systems Journal, 2020, 14, 3767-3778.	4.6	5
68	Gas Network's Impact on Power System Voltage Security. IEEE Transactions on Power Systems, 2021, 36, 5428-5440.	6.5	5
69	Introduction to Programming in GAMS. , 2017, , 1-32.		4
70	Simple Examples in GAMS. , 2017, , 33-63.		3
71	Energy Storage Planning for Resiliency enhancement against Renewable Energy Curtailment. , 2017, , .		3
72	Smart transformer Modelling in Optimal Power Flow Analysis. , 2019, , .		3

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73	A data-driven measurement placement to evaluate the well-being of distribution systems operation. IET Generation, Transmission and Distribution, 2021, 15, 1463-1473.	2.5	3
74	DC constrained fuzzy power flow for transmission expansion planning studies. International Transactions on Electrical Energy Systems, 2017, 27, e2361.	1.9	2
75	Unit Commitment. , 2017, , 119-140.		2
76	Strategic Scheduling in Smart Grids. , 2018, , .		2
77	Resilient decentralised control of inverter-interfaced distributed energy sources in low-voltage distribution grids. IET Smart Grid, 2020, 3, 153-161.	2.2	2
78	Renewable Energy and Economic Dispatch Integration Within the Honduras Electricity Market. Energy Systems in Electrical Engineering, 2021, , 1-34.	0.7	2
79	Use of fitted polynomials for the decentralised estimation of network variables in unbalanced radial LV feeders. IET Generation, Transmission and Distribution, 2020, 14, 2368-2377.	2.5	2
80	Information Gap Decision Theory based congestion and voltage management in the presence of uncertain wind power. , 2016, , .		1
81	Safe operation of transmission system considering EV at distribution level. , 2016, , .		1
82	Risk Averse Security Constrained Stochastic Congestion Management. Power Electronics and Power Systems, 2017, , 301-334.	0.6	1
83	Energy System Integration. , 2017, , 265-292.		1
84	Power Plant Dispatching. , 2017, , 65-93.		1
85	Multi-Period Optimal Power Flow. , 2017, , 141-173.		1
86	optimising Load Flexibility for the Day Ahead in Distribution Networks with Photovoltaics. , 2019, , .		1
87	Transmission expansion planning in presence of electric vehicles at the distribution level. International Transactions on Electrical Energy Systems, 2021, 31, e12769.	1.9	1
88	Optimal Deployment of Mobile MSSC in Transmission System. Energies, 2022, 15, 3878.	3.1	1
89	Probabilistic security constrained fuzzy power flow models. , 2016, , .		0
90	Power System Observability. , 2017, , 203-225.		0

#	ARTICLE	IF	CITATIONS
91	Topics in Transmission Operation and Planning. , 2017, , 227-264.		0
92	Guest Editorial: Unlocking the Full Benefits of TSO&DSDO Interactions. IET Generation, Transmission and Distribution, 2020, 14, 705-706.	2.5	0
93	Operational Issues in Symmetric Fuzzy Power Flow. International Review on Modelling and Simulations, 2017, 10, 313.	0.3	0