Abbas Rabiee

List of Publications by Year
in descending order

68 papers	2,962 citations	147801 31 h-index	161849 54 g-index
69 all docs	69 docs citations	69 times ranked	2254 citing authors

#	Article	IF	Citations
1	Combined heat and power economic dispatch problem solution using particle swarm optimization with time varying acceleration coefficients. Electric Power Systems Research, 2013, 95, 9-18.	3.6	325
2	Voltage stability constrained multi-objective optimal reactive power dispatch under load and wind power uncertainties: A stochastic approach. Renewable Energy, 2016, 85, 598-609.	8.9	187
3	Continuous quick group search optimizer for solving non-convex economic dispatch problems. Electric Power Systems Research, 2012, 93, 93-105.	3.6	131
4	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
5	Corrective Voltage Control Scheme Considering Demand Response and Stochastic Wind Power. IEEE Transactions on Power Systems, 2014, 29, 2965-2973.	6.5	126
6	Imperialist competitive algorithm for solving non-convex dynamic economic power dispatch. Energy, 2012, 44, 228-240.	8.8	124
7	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
8	Information Gap Decision Theory Based OPF With HVDC Connected Wind Farms. IEEE Transactions on Power Systems, 2015, 30, 3396-3406.	6.5	99
9	Optimal reactive power dispatch: a review, and a new stochastic voltage stability constrained multiâ€objective model at the presence of uncertain wind power generation. IET Generation, Transmission and Distribution, 2017, 11, 815-829.	2.5	88
10	Time-varying acceleration coefficients IPSO for solving dynamic economic dispatch with non-smooth cost function. Energy Conversion and Management, 2012, 56, 175-183.	9.2	84
11	Voltage security constrained multi-period optimal reactive power flow using benders and optimality condition decompositions. IEEE Transactions on Power Systems, 2013, 28, 696-708.	6.5	84
12	A two-point estimate method for uncertainty modeling in multi-objective optimal reactive power dispatch problem. International Journal of Electrical Power and Energy Systems, 2016, 75, 194-204.	5.5	83
13	Nonconvex Dynamic Economic Power Dispatch Problems Solution Using Hybrid Immune-Genetic Algorithm. IEEE Systems Journal, 2013, 7, 777-785.	4.6	76
14	Stochastic Multiperiod OPF Model of Power Systems With HVDC-Connected Intermittent Wind Power Generation. IEEE Transactions on Power Delivery, 2014, 29, 336-344.	4.3	73
15	Maximizing hosting capacity of renewable energy sources in distribution networks: A multi-objective and scenario-based approach. Energy, 2017, 120, 417-430.	8.8	71
16	Multi-objective stochastic model for joint optimal allocation of DG units and network reconfiguration from DG ownerâ€™s and DisCoâ€™s perspectives. Renewable Energy, 2019, 132, 471-485.	8.9	71
17	Fast Dynamic Economic Power Dispatch Problems Solution Via Optimality Condition Decomposition. IEEE Transactions on Power Systems, 2014, 29, 982-983.	6.5	66
18	Distribution networks' energy losses versus hosting capacity of wind power in the presence of demand flexibility. Renewable Energy, 2017, 102, 316-325.	8.9	55

#	Article	IF	Citations
19	Green hydrogen: A new flexibility source for security constrained scheduling of power systems with renewable energies. International Journal of Hydrogen Energy, 2021, 46, 19270-19284.	7.1	52
20	Stochastic techno-economic operation of power systems in the presence of distributed energy resources. International Journal of Electrical Power and Energy Systems, 2013, 45, 477-488.	5.5	51
21	Optimal reactive power dispatch for improving voltage stability margin using a local voltage stability index. Energy Conversion and Management, 2012, 59, 66-73.	9.2	48
22	Robust model for optimal allocation of renewable energy sources, energy storage systems and demand response in distribution systems via information gap decision theory. IET Generation, Transmission and Distribution, 2019, 13, 511-520.	2.5	47
23	Optimal multiâ€area generation schedule considering renewable resources mix: a realâ€time approach. IET Generation, Transmission and Distribution, 2013, 7, 1011-1026.	2.5	44
24	Technical barriers for harnessing the green hydrogen: A power system perspective. Renewable Energy, 2021, 163, 1580-1587.	8.9	44
25	Energy management in distribution systems, considering the impact of reconfiguration, RESs, ESSs and DR: A trade-off between cost and reliability. Renewable Energy, 2019, 139, 346-358.	8.9	41
26	Voltage Security Constrained Stochastic Programming Model for Day-Ahead BESS Schedule in Co-Optimization of T&D Systems. IEEE Transactions on Sustainable Energy, 2020, 11, 391-404.	8.8	41
27	Fuzzy based damping controller for TCSC using local measurements to enhance transient stability of power systems. International Journal of Electrical Power and Energy Systems, 2017, 85, 12-21.	5.5	39
28	A Novel Model for Thermal Behavior Prediction of Oil-Immersed Distribution Transformers With Consideration of Solar Radiation. IEEE Transactions on Power Delivery, 2019, 34, 1634-1646.	4.3	37
29	Optimal wind power generation investment, considering voltage stability of power systems. Renewable Energy, 2018, 115, 308-325.	8.9	36
30	Energy Hub Management with Intermittent Wind Power. Green Energy and Technology, 2014, , 413-438.	0.6	35
31	Stochastic Real-Time Scheduling of Wind-Thermal Generation Units in an Electric Utility. IEEE Systems Journal, 2017, 11, 1622-1631.	4.6	31
32	Information gap decision theory for voltage stability constrained OPF considering the uncertainty of multiple wind farms. IET Renewable Power Generation, 2017, 11, 585-592.	3.1	31
33	Risk-Averse Preventive Voltage Control of AC/DC Power Systems Including Wind Power Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 1494-1505.	8.8	30
34	Information gap decision theory to deal with long-term wind energy planning considering voltage stability. Energy, 2018, 147, 451-463.	8.8	30
35	Optimal Cost of Voltage Security Control Using Voltage Dependent Load Models in Presence of Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 2383-2395.	9.0	27
36	A Two-Stage Mathematical Programming Approach for the Solution of Combined Heat and Power Economic Dispatch. IEEE Systems Journal, 2020, 14, 2873-2881.	4.6	26

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37	Riskâ€averse energy management system for isolated microgrids considering generation and demand uncertainties based on information gap decision theory. IET Renewable Power Generation, 2019, 13, 940-951.	3.1	23
38	Risk averse energy management strategy in the presence of distributed energy resources considering distribution network reconfiguration: an information gap decision theory approach. IET Renewable Power Generation, 2020, 14, 305-312.	3.1	20
39	A Stochastic Voltage Stability Constrained EMS for Isolated Microgrids in the Presence of PEVs Using a Coordinated UC-OPF Framework. IEEE Transactions on Industrial Electronics, 2021, 68, 4046-4055.	7.9	19
40	Comprehensive control framework for ensuring loading margin of power systems considering demand-side participation. IET Generation, Transmission and Distribution, 2012, 6, 1189-1201.	2.5	18
41	Voltage stability constrained multiâ€objective optimisation model for longâ€term expansion planning of largeâ€scale wind farms. IET Generation, Transmission and Distribution, 2018, 12, 548-555.	2.5	16
42	Optimal Non-Convex Combined Heat and Power Economic Dispatch via Improved Artificial Bee Colony Algorithm. Processes, 2020, 8, 1036.	2.8	16
43	Indoor distribution transformers oil temperature prediction using new electroâ€thermal resistance model and normal cyclic overloading strategy: an experimental case study. IET Generation, Transmission and Distribution, 2020, 14, 5792-5803.	2.5	15
44	Coordinated voltage control of wind-penetrated power systems via state feedback control. International Journal of Electrical Power and Energy Systems, 2017, 93, 384-394.	5.5	14
45	A scenario-based voltage stability constrained planning model for integration of large-scale wind farms. International Journal of Electrical Power and Energy Systems, 2019, 105, 564-580.	5.5	14
46	Optimal flexibility coordination for energy procurement in distribution networks. IET Renewable Power Generation, 2021, 15, 1191-1203.	3.1	14
47	Stochastic optimal transmission Switching: A novel approach to enhance power grid security margins through vulnerability mitigation under renewables uncertainties. Applied Energy, 2022, 305, 117851.	10.1	13
48	Enhanced Transmission and Distribution Network Coordination to Host More Electric Vehicles and PV. IEEE Systems Journal, 2022, 16, 2705-2716.	4.6	12
49	Model predictive control scheme for coordinated voltage control of power systems at the presence of volatile wind power generation. IET Generation, Transmission and Distribution, 2018, 12, 1922-1928.	2.5	10
50	A Joint Risk- and Security-Constrained Control Framework for Real-Time Energy Scheduling of Islanded Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 3354-3368.	9.0	9
51	Discussion of â€œHybrid Differential Evolution With Biogeography-Based Optimization for Solution of Economic Load Dispatchâ€• IEEE Transactions on Power Systems, 2012, 27, 574-574.	6.5	8
52	Multi-objective Optimal Reactive Power Dispatch Considering Uncertainties in the Wind Integrated Power Systems. Power Systems, 2017, , 475-513.	0.5	8
53	Using wide-area signals to improve the inter-area mode damping performance of static VAR compensators. , 2018, , .		6
54	Location-based uncertainty management of off-shore wind farms: A multiple radius robust decision making. International Journal of Electrical Power and Energy Systems, 2022, 136, 107667.	5.5	6

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55	A Joint Energy Storage Systems and Wind Farms Long-Term Planning Model Considering Voltage Stability. , 2018, , 337-363.		5
56	Gas Network's Impact on Power System Voltage Security. IEEE Transactions on Power Systems, 2021, 36, 5428-5440.	6.5	5
57	Risk-Averse Scheduling of Combined Heat and Power-Based Microgrids in Presence of Uncertain Distributed Energy Resources. Sustainability, 2021, 13, 7119.	3.2	5
58	MPC and robustness optimisationâ€based EMS for microgrids with high penetration of intermittent renewable energy. IET Generation, Transmission and Distribution, 2020, 14, 5239-5248.	2.5	5
59	Influence of model simplifications and parameters on dynamic performance of grid connected fixed speed wind turbines. , 2010, , .		4
60	Optimal reactive power dispatch using the concept of dynamic VAR source value. , 2009, , .		3
61	Investigation of BESSs' benefits in transmission and distribution systems operations using integrated power grid co-optimization. , 2017, , .		3
62	Optimal Long-Term Distributed Generation Planning and Reconfiguration of Distribution Systems: An Accelerating Bendersâ€™ Decomposition Approach. Journal of Optimization Theory and Applications, 2018, 179, 283-310.	1.5	3
63	Vulnerability Assessment in Power Systems: A Review and Representing Novel Perspectives. , 2020, , .		2
64	MVAR Management Using Generator Participation Factors for Improving Voltage Stability Margin. Journal of Applied Sciences, 2009, 9, 2123-2129.	0.3	2
65	Discussion of â€œA Hybrid Interior Point Assisted Differential Evolution Algorithm for Economic Dispatchâ€• IEEE Transactions on Power Systems, 2012, 27, 1142-1143.	6.5	1
66	Risk Averse Security Constrained Stochastic Congestion Management. Power Electronics and Power Systems, 2017, , 301-334.	0.6	1
67	Stochastic Day-ahead Optimal BESSs' Allocation in T&D Systems: Co-Optimization Based Approach with Uncertainties. , 2018, , .		1
68	Distribution Feeder Reconfiguration Considering Price-Based Demand Response Program. , 2020, , 95-117.		1