Shahab Dehghan

List of Publications by Year
in descending order

43 papers	1,462 citations	361296 20 h-index	414303 32 g-index
43 all docs	43 docs citations	43 times ranked	1264 citing authors

#	Article	IF	Citations
1	Energy storage planning in electric power distribution networks — A state-of-the-art review. Renewable and Sustainable Energy Reviews, 2017, 79, 1108-1121.	8.2	167
2	Robust Transmission and Energy Storage Expansion Planning in Wind Farm-Integrated Power Systems Considering Transmission Switching. IEEE Transactions on Sustainable Energy, 2016, 7, 765-774.	5.9	152
3	Two-Stage Robust Generation Expansion Planning: A Mixed Integer Linear Programming Model. IEEE Transactions on Power Systems, 2014, 29, 584-597.	4.6	127
4	Reliability-Constrained Robust Power System Expansion Planning. IEEE Transactions on Power Systems, 2016, 31, 2383-2392.	4.6	95
5	Adaptive Robust Expansion Planning for a Distribution Network With DERs. IEEE Transactions on Power Systems, 2018, 33, 1698-1715.	4.6	86
6	Multi-objective robust transmission expansion planning using information-gap decision theory and augmented ε-constraint method. IET Generation, Transmission and Distribution, 2014, 8, 828-840.	1.4	82
7	Adaptive Robust Network-Constrained AC Unit Commitment. IEEE Transactions on Power Systems, 2017, 32, 672-683.	4.6	65
8	Adaptive Robust Transmission Expansion Planning Using Linear Decision Rules. IEEE Transactions on Power Systems, 2017, 32, 4024-4034.	4.6	64
9	Flexible, reliable, and renewable power system resource expansion planning considering energy storage systems and demand response programs. IET Renewable Power Generation, 2019, 13, 1862-1872.	1.7	62
10	Adaptive Robust Self-Scheduling for a Wind Producer With Compressed Air Energy Storage. IEEE Transactions on Sustainable Energy, 2018, 9, 1659-1671.	5.9	57
11	Integrated resource expansion planning of wind integrated power systems considering demand response programmes. IET Renewable Power Generation, 2019, 13, 519-529.	1.7	50
12	A Robust Model for Multiyear Distribution Network Reinforcement Planning Based on Information-Gap Decision Theory. IEEE Transactions on Power Systems, 2018, 33, 1339-1351.	4.6	44
13	Robust transmission system expansion considering planning uncertainties. IET Generation, Transmission and Distribution, 2013, 7, 1318-1331.	1.4	42
14	Affinely Adjustable Robust Bidding Strategy for a Solar Plant Paired With a Battery Storage. IEEE Transactions on Smart Grid, 2019, 10, 2629-2640.	6.2	41
15	A coordinated planner-disaster-risk-averse-planner investment model for enhancing the resilience of integrated electric power and natural gas networks. International Journal of Electrical Power and Energy Systems, 2020, 119, 105948.	3.3	38
16	A Multistage Robust Transmission Expansion Planning Model Based on Mixed Binary Linear Decision Rules—Part I. IEEE Transactions on Power Systems, 2018, 33, 5341-5350.	4.6	33
17	Demand Response-Based Operation Model in Electricity Markets With High Wind Power Penetration. IEEE Transactions on Sustainable Energy, 2019, 10, 918-930.	5.9	31
18	A novel two-stage evolutionary optimization method for multiyear expansion planning of distribution systems in presence of distributed generation. Applied Soft Computing Journal, 2017, 52, 1098-1115.	4.1	24

#	Article	IF	Citations
19	Special protection scheme against voltage collapse. IET Generation, Transmission and Distribution, 2016, 10, 341-351.	1.4	22
20	VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. IEEE Transactions on Smart Grid, 2020, 11, 3632-3645.	6.2	22
21	Adaptive Robust Optimal Transmission Switching Considering the Uncertainty of Net Nodal Electricity Demands. IEEE Systems Journal, 2017, 11, 2872-2881.	2.9	20
22	A Robust Coordinated Expansion Planning Model For Wind Farm-Integrated Power Systems With Flexibility Sources Using Affine Policies. IEEE Systems Journal, 2020, 14, 4110-4118.	2.9	20
23	A critical review of robust self-scheduling for generation companies under electricity price uncertainty. International Journal of Electrical Power and Energy Systems, 2018, 97, 428-439.	3.3	16
24	A critical review<scp>on definitions</scp>, indices, and uncertainty characterization<scp>in resiliency€oriented</scp>operation of<scp>power systems</scp>. International Transactions on Electrical Energy Systems, 2021, 31, e12680.	1.2	16
25	A new hybrid stochastic-robust optimization approach for self-scheduling of generation companies. International Transactions on Electrical Energy Systems, 2016, 26, 1244-1259.	1.2	13
26	A Distributionally Robust AC Network-Constrained Unit Commitment. IEEE Transactions on Power Systems, 2021, 36, 5258-5270.	4.6	13
27	A Stochastic-Robust Approach for Resilient Microgrid Investment Planning Under Static and Transient Islanding Security Constraints. IEEE Transactions on Smart Grid, 2022, 13, 1774-1788.	6.2	11
28	Security constrained multi€objective bi€directional integrated electricity and natural gas co€expansion planning considering multiple uncertainties of wind energy and system demand. IET Renewable Power Generation, 2020, 14, 1395-1404.	1.7	10
29	A Multistage Robust Transmission Expansion Planning Model Based on Mixed-Binary Linear Decision Rules€"Part II. IEEE Transactions on Power Systems, 2018, 33, 5351-5364.	4.6	8
30	Optimal integration of multiple wind farms into bulk electric system considering wind speed correlation uncertainties. International Transactions on Electrical Energy Systems, 2016, 26, 1085-1102.	1.2	6
31	Multiscale Multiresolution Generation Maintenance Scheduling: A Stochastic Affinely Adjustable Robust Approach. IEEE Systems Journal, 2021, 15, 893-904.	2.9	5
32	Transmission network expansion planning using a DEA-based benders decomposition. , 2010, , .		3
33	Enhancing Microgrid Resilience and Survivability under Static and Dynamic Islanding Constraints. , 2020, , .		3
34	Multistage transmission expansion planning alleviating the level of transmission congestion. , 2011, , .		2
35	Evaluating and comparing profitability of bulk storage systems in unit commitment and optimal power flow operation frameworks. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	2
36	Optimal Energy Providing Strategy of Micro-Grid's Operator Based on a Game Theoretical Approach. , 2018, , .		2

#	Article	IF	Citations
37	A Data-Driven Two-Stage Distributionally Robust Planning Tool for Sustainable Microgrids. , 2020, , .		2
38	Rethinking Consumer-Centric Markets Under Uncertainty: A Robust Approach to Community-Based Energy Trades. , 2020, , .		2
39	DCOPF-based LMP calculation considering line reactive flows. , 2010, , .		1
40	A mixed-integer LP approach considering the impact of bundle conductors on transmission network expansion planning. , 2010, , .		1
41	Transmission network augmentation planning considering the impact of corona power loss. , 2011, , .		1
42	Optimal load shedding to enhance voltage stability and voltage profile based on a multi-objective optimization technique. , 2011, , .		1
43	A Data-Driven Optimisation Model for Designing Islanded Microgrids. , 2022, , .		0