Taher Niknam

List of Publications by Year
in descending order

102 papers	4,188 citations	94269 37 h-index	123241 61 g-index
103 all docs	103 docs citations	103 times ranked	3585 citing authors

#	Article	IF	Citations
1	Fuzzy modeling and control of a class of nonâ€differentiable multiâ€input multiâ€output nonlinear systems. Asian Journal of Control, 2022, 24, 942-955.	1.9	5
2	Synergies Between Transportation Systems, Energy Hub and the Grid in Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7371-7385.	4.7	12
3	Constrained Robust Control by a Novel Dynamic Sliding Mode Surface. International Journal of Control, Automation and Systems, 2022, 20, 823-830.	1.6	2
4	Fuzzy model predictive MPPT control of interconnected wind turbines drivetrain. Asian Journal of Control, 2022, 24, 2714-2728.	1.9	4
5	Extended Kalman Filter-Based Approach for Nodal Pricing in Active Distribution Networks. IEEE Systems Journal, 2021, 15, 487-496.	2.9	10
6	Optimal Multi-Operation Energy Management in Smart Microgrids in the Presence of RESs Based on Multi-Objective Improved DE Algorithm: Cost-Emission Based Optimization. Applied Sciences (Switzerland), 2021, 11, 3661.	1.3	42
7	Fourier Singular Values-Based False Data Injection Attack Detection in AC Smart-Grids. Applied Sciences (Switzerland), 2021, 11, 5706.	1.3	16
8	Cyber-Attack Detection in DC Microgrids Based on Deep Machine Learning and Wavelet Singular Values Approach. Electronics (Switzerland), 2021, 10, 1914.	1.8	24
9	Blockchain-Based Securing of Data Exchange in a Power Transmission System Considering Congestion Management and Social Welfare. Sustainability, 2021, 13, 90.	1.6	149
10	Self-Scheduling Approach to Coordinating Wind Power Producers With Energy Storage and Demand Response. IEEE Transactions on Sustainable Energy, 2020, 11, 1210-1219.	5.9	41
11	Probabilistic Model for Microgrids Optimal Energy Management Considering AC Network Constraints. IEEE Systems Journal, 2020, 14, 2703-2712.	2.9	12
12	Multiâ€objective optimisation method for coordinating battery storage systems, photovoltaic inverters and tap changers. IET Renewable Power Generation, 2020, 14, 475-483.	1.7	12
13	Optimal design procedure of a high-torque-density dual-stator consequent-pole Vernier PM machine. Electrical Engineering, 2020, 102, 2637-2653.	1.2	2
14	Smart coordinated management of distribution networks with high penetration of PEVs using FLC. IET Generation, Transmission and Distribution, 2020, 14, 476-485.	1.4	11
15	Technoâ€economic potential gains of electric springs in distribution networks operations. IET Generation, Transmission and Distribution, 2020, 14, 98-107.	1.4	3
16	Flexible operation of gridâ€connected microgrid using ES. IET Generation, Transmission and Distribution, 2020, 14, 254-264.	1.4	39
17	Wind Turbine Drivetrain Technologies. IEEE Transactions on Industry Applications, 2020, 56, 1729-1741.	3.3	32
18	IoT in Smart Grid: Energy Management Opportunities and Security Challenges. IFIP Advances in Information and Communication Technology, 2020, , 319-327.	0.5	2

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19	Stochastic multi-objective distribution automation strategies from reliability enhancement point of view in the presence of plug in electric vehicles. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2933-2945.	0.8	2
20	Multi-objective day-ahead scheduling of microgrids using modified grey wolf optimizer algorithm. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2857-2870.	0.8	13
21	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
22	Hybrid Optimization Algorithm to Solve the Nonconvex Multiarea Economic Dispatch Problem. IEEE Systems Journal, 2019, 13, 3400-3409.	2.9	46
23	Multi-Objective Coordination of Local and Centralized Volt/Var Control with Optimal Switch and Distributed Generations Placement. Journal of Intelligent and Fuzzy Systems, 2019, 36, 6605-6617.	0.8	4
24	Integrated battery model in cost-effective operation and load management of grid-connected smart nano-grid. IET Renewable Power Generation, 2019, 13, 1123-1131.	1.7	11
25	Image segmentation using multilevel thresholding based on modified bird mating optimization. Multimedia Tools and Applications, 2019, 78, 23003-23027.	2.6	32
26	A Secure Distributed Cloud-Fog Based Framework for Economic Operation of Microgrids. , 2019, , .		9
27	Integrated resource expansion planning of wind integrated power systems considering demand response programmes. IET Renewable Power Generation, 2019, 13, 519-529.	1.7	50
28	Power Conditioning of Distribution Networks via Single-Phase Electric Vehicles Equipped. IEEE Systems Journal, 2019, 13, 3433-3442.	2.9	44
29	Robust and effective parallel process to coordinate multi-area economic dispatch (MAED) problems in the presence of uncertainty. IET Generation, Transmission and Distribution, 2019, 13, 4197-4205.	1.4	18
30	Hourly electricity and heat Demand Response in the OEF of the integrated electricity-heat-natural gas system. IET Renewable Power Generation, 2019, 13, 2853-2863.	1.7	11
31	Day-ahead energy management framework for a networked gas–heat–electricity microgrid. IET Generation, Transmission and Distribution, 2019, 13, 4617-4629.	1.4	16
32	Stochastic Electricity Social Welfare Enhancement Based on Consensus Neighbor Virtualization. IEEE Transactions on Industrial Electronics, 2019, 66, 9571-9580.	5.2	10
33	Smart Wire Placement to Facilitate Large-Scale Wind Energy Integration: An Adaptive Robust Approach. IEEE Transactions on Sustainable Energy, 2019, 10, 1981-1992.	5.9	10
34	Optimal Partitioning of Smart Distribution Systems Into Supply-Sufficient Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2523-2533.	6.2	50
35	Probabilistic Load Forecasting Using an Improved Wavelet Neural Network Trained by Generalized Extreme Learning Machine. IEEE Transactions on Smart Grid, 2018, 9, 6961-6971.	6.2	137
36	Proactive operation of electric vehicles in harmonic polluted smart distribution networks. IET Generation, Transmission and Distribution, 2018, 12, 967-975.	1.4	40

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37	Fast Decomposed Energy Flow in Large-Scale Integrated Electricity–Gas–Heat Energy Systems. IEEE Transactions on Sustainable Energy, 2018, 9, 1565-1577.	5.9	81
38	Bundled Generation and Transmission Planning Under Demand and Wind Generation Uncertainty Based on a Combination of Robust and Stochastic Optimization. IEEE Transactions on Sustainable Energy, 2018, 9, 1477-1486.	5.9	59
39	Investigation of Carrier Demand Response Uncertainty on Energy Flow of Renewable-Based Integrated Electricity–Gas–Heat Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 5133-5142.	7.2	71
40	Distribution automation planning and operation considering optimized switch placement and feeder reconfiguration strategies from reliability enhancement perspective. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3493-3506.	0.8	2
41	Convex Models for Optimal Utility-Based Distributed Generation Allocation in Radial Distribution Systems. IEEE Systems Journal, 2018, 12, 3497-3508.	2.9	10
42	Probabilistic wind power forecasting using a novel hybrid intelligent method. Neural Computing and Applications, 2018, 30, 473-485.	3.2	24
43	Advanced Model Predictive MPPT and Frequency Regulation In Interconnected Wind Turbine Drivetrains. , 2018, , .		7
44	Maximizing Social Welfare Considering the Uncertainty of Wind Power Plants Using a Distributed Consensus-based Algorithm. , 2018, , .		4
45	Moving beyond the optimal transmission switching: stochastic linearised SCUC for the integration of wind power generation and equipment failures uncertainties. IET Generation, Transmission and Distribution, 2018, 12, 3780-3792.	1.4	25
46	Dynamics and Control of a Shared Wind Turbine Drivetrain. IEEE Transactions on Industry Applications, 2018, 54, 6394-6400.	3.3	11
47	Towards robust OPF solution strategy for the future AC/DC grids: case of VSC–HVDC–connected offshore wind farms. IET Renewable Power Generation, 2018, 12, 691-701.	1.7	24
48	Probabilistic Forecasting of Hourly Electricity Price by Generalization of ELM for Usage in Improved Wavelet Neural Network. IEEE Transactions on Industrial Informatics, 2017, 13, 71-79.	7.2	110
49	Probabilistic electricity price forecasting by improved clonal selection algorithm and wavelet preprocessing. Neural Computing and Applications, 2017, 28, 3889-3901.	3.2	24
50	Analysis, control and design of speed control of electric vehicles delayed model: multi–objective fuzzy fractional–order controller. IET Science, Measurement and Technology, 2017, 11, 249-261.	0.9	37
51	Model–predictive control based on Takagi–Sugeno fuzzy model for electrical vehicles delayed model. IET Electric Power Applications, 2017, 11, 918-934.	1.1	70
52	Adaptive PI controller to voltage regulation in power systems: STATCOM as a case study. ISA Transactions, 2017, 66, 325-334.	3.1	34
53	Bidding strategies of the joint wind, hydro, and pumped–storage in generation company using novel improved clonal selection optimisation algorithm. IET Science, Measurement and Technology, 2017, 11, 991-1001.	0.9	15
54	Energy carriers management based on energy consumption. , 2017, , .		17

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55	New Stochastic Bi-Objective Optimal Cost and Chance of Operation Management Approach for Smart Microgrid. IEEE Transactions on Industrial Informatics, 2016, 12, 2031-2040.	7.2	39
56	Harmonic Elimination in Multilevel Inverters Under Unbalanced Voltages and Switching Deviation Using a New Stochastic Strategy. IEEE Transactions on Industrial Informatics, 2016, 12, 716-725.	7.2	80
57	Time-Varying Sliding Mode Control Strategy for Multibus Low-Voltage Microgrids with Parallel Connected Renewable Power Sources in Islanding Mode. Journal of Energy Engineering - ASCE, 2016, 142, 05016002.	1.0	42
58	Tâ€"S fuzzy model predictive speed control of electrical vehicles. ISA Transactions, 2016, 64, 231-240.	3.1	73
59	Speed control of electrical vehicles: a timeâ€varying proportionalâ€"integral controllerâ€based typeâ€2 fuzzy logic. IET Science, Measurement and Technology, 2016, 10, 185-192.	0.9	52
60	A robust adaptive load frequency control for micro-grids. ISA Transactions, 2016, 65, 220-229.	3.1	141
61	Free chattering hybrid sliding mode control for a class of nonâ€linear systems: electric vehicles as a case study. IET Science, Measurement and Technology, 2016, 10, 776-785.	0.9	65
62	Stochastic Reconfiguration and Optimal Coordination of V2G Plug-in Electric Vehicles Considering Correlated Wind Power Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 822-830.	5.9	152
63	Expected Cost Minimization of Smart Grids With Plug-In Hybrid Electric Vehicles Using Optimal Distribution Feeder Reconfiguration. IEEE Transactions on Industrial Informatics, 2015, 11, 388-397.	7.2	137
64	Onâ€line parameter identification of power plant characteristics based on phasor measurement unit recorded data using differential evolution and bat inspired algorithm. IET Science, Measurement and Technology, 2015, 9, 376-392.	0.9	16
65	Multiâ€objective probabilistic reconfiguration considering uncertainty and multiâ€level load model. IET Science, Measurement and Technology, 2015, 9, 44-55.	0.9	28
66	Scenario-Based Optimal Bidding Strategies of GENCOs in the Incomplete Information Electricity Market Using a New Improved Preyâ€"Predator Optimization Algorithm. IEEE Systems Journal, 2015, 9, 1485-1495.	2.9	28
67	Reliability-Oriented Reconfiguration of Vehicle-to-Grid Networks. IEEE Transactions on Industrial Informatics, 2015, 11, 682-691.	7.2	73
68	Joint successive base station switch off and user subcarrier allocation optimization for green multicarrier based cellular networks. , 2015, , .		4
69	A novel multi-objective self-adaptive modifiedÎ³-firefly algorithm for optimal operation management of stochastic DFR strategy. International Transactions on Electrical Energy Systems, 2015, 25, 976-993.	1.2	8
70	An optimal PMU placement method for power system observability under various contingencies. International Transactions on Electrical Energy Systems, 2015, 25, 589-606.	1.2	37
71	Short term load forecasting of distribution systems by a new hybrid modified FA-backpropagation method. Journal of Intelligent and Fuzzy Systems, 2014, 26, 517-522.	0.8	28
72	Optimal stochastic capacitor placement problem from the reliability and cost views using firefly algorithm. IET Science, Measurement and Technology, 2014, 8, 260-269.	0.9	27

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73	New self‐adaptive bat‐inspired algorithm for unit commitment problem. IET Science, Measurement and Technology, 2014, 8, 505-517.	0.9	24
74	Optimal Distribution Feeder Reconfiguration for Reliability Improvement Considering Uncertainty. IEEE Transactions on Power Delivery, 2014, 29, 1344-1353.	2.9	195
75	An optimal type II fuzzy sliding mode control design for a class of nonlinear systems. Nonlinear Dynamics, 2014, 75, 73-83.	2.7	46
76	Stochastic scenario‐based model and investigating size of energy storages for PEM‐fuel cell unit commitment of micro‐grid considering profitable strategies. IET Generation, Transmission and Distribution, 2014, 8, 1228-1243.	1.4	30
77	Intelligent stochastic framework to solve the reconfiguration problem from the reliability view. IET Science, Measurement and Technology, 2014, 8, 245-259.	0.9	30
78	Multi‐objective short‐term scheduling of thermoelectric power systems using a novel multi‐objective $\hat{I}_\zeta$ ‐improved cuckoo optimisation algorithm. IET Generation, Transmission and Distribution, 2014, 8, 873-894.	1.4	31
79	Modified shuffled frog leaping algorithm for multi-objective optimal power flow with FACTS devices. Journal of Intelligent and Fuzzy Systems, 2014, 26, 681-692.	0.8	22
80	Dynamic optimal power flow using hybrid particle swarm optimization and simulated annealing. International Transactions on Electrical Energy Systems, 2013, 23, 975-1001.	1.2	63
81	Robust, fast and optimal solution of practical economic dispatch by a new enhanced gradient‐based simplified swarm optimisation algorithm. IET Generation, Transmission and Distribution, 2013, 7, 620-635.	1.4	39
82	Reserve Constrained Dynamic Environmental/Economic Dispatch: A New Multiobjective Self-Adaptive Learning Bat Algorithm. IEEE Systems Journal, 2013, 7, 763-776.	2.9	73
83	A new modified teaching-learning algorithm for reserve constrained dynamic economic dispatch. IEEE Transactions on Power Systems, 2013, 28, 749-763.	4.6	144
84	Multi-Objective Stochastic Distribution Feeder Reconfiguration in Systems With Wind Power Generators and Fuel Cells Using the Point Estimate Method. IEEE Transactions on Power Systems, 2013, 28, 1483-1492.	4.6	148
85	Multiobjective Optimal Reactive Power Dispatch and Voltage Control: A New Opposition-Based Self-Adaptive Modified Gravitational Search Algorithm. IEEE Systems Journal, 2013, 7, 742-753.	2.9	73
86	Enhanced Bee Swarm Optimization Algorithm for Dynamic Economic Dispatch. IEEE Systems Journal, 2013, 7, 754-762.	2.9	74
87	Placement of Combined Heat, Power and Hydrogen Production Fuel Cell Power Plants in a Distribution Network. Energies, 2012, 5, 790-814.	1.6	16
88	Multi-objective stochastic dynamic economic emission dispatch enhancement by fuzzy adaptive modified theta particle swarm optimization. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	16
89	Scenario-Based Multiobjective Volt/Var Control in Distribution Networks Including Renewable Energy Sources. IEEE Transactions on Power Delivery, 2012, 27, 2004-2019.	2.9	206
90	A multi-objective fuzzy adaptive PSO algorithm for location of automatic voltage regulators in radial distribution networks. International Journal of Control, Automation and Systems, 2012, 10, 772-777.	1.6	13

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91	Stochastic generation scheduling considering wind power generators. Journal of Renewable and Sustainable Energy, 2012, 4, 063119.	0.8	10
92	Power management, dynamic modeling and control of wind/FC/battery‐bank based hybrid power generation system for stand‐alone application. European Transactions on Electrical Power, 2012, 22, 271-293.	1.0	14
93	A new tribe modified shuffled frog leaping algorithm for multi‐objective distribution feeder reconfiguration considering distributed generator units. European Transactions on Electrical Power, 2012, 22, 308-333.	1.0	17
94	Hybrid Fuzzy Adaptive Particle Swarm Optimization and Differential Evolution Algorithm for Distribution Feeder Reconfiguration. Electric Power Components and Systems, 2011, 39, 158-175.	1.0	13
95	A NEW HYBRID EVOLUTIONARY OPTIMIZATION ALGORITHM FOR DISTRIBUTION FEEDER RECONFIGURATION. Applied Artificial Intelligence, 2011, 25, 951-971.	2.0	18
96	A new particle swarm optimization for non-convex economic dispatch. European Transactions on Electrical Power, 2011, 21, 656-679.	1.0	38
97	An efficient multi-objective modified shuffled frog leaping algorithm for distribution feeder reconfiguration problem. European Transactions on Electrical Power, 2011, 21, 721-739.	1.0	31
98	A novel Multi‐objective Fuzzy Adaptive Chaotic PSO algorithm for Optimal Operation Management of distribution network with regard to fuel cell power plants. European Transactions on Electrical Power, 2011, 21, 1954-1983.	1.0	10
99	An efficient hybrid evolutionary algorithm based on PSO and ACO for distribution feeder reconfiguration. European Transactions on Electrical Power, 2010, 20, 575-590.	1.0	30
100	A hybrid evolutionary algorithm for distribution feeder reconfiguration. Sadhana - Academy Proceedings in Engineering Sciences, 2010, 35, 139-162.	0.8	11
101	An efficient hybrid evolutionary optimization algorithm based on PSO and SA for clustering. Journal of Zhejiang University: Science A, 2009, 10, 512-519.	1.3	99
102	An Approach Based on Particle Swarm Optimization for Optimal Operation of Distribution Network Considering Distributed Generators. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	16