Mohammad Mohammadi

List of Publications by Year
in descending order

105 papers	2,065 citations	257357 24 h-index	289141 40 g-index
106 all docs	106 docs citations	106 times ranked	1724 citing authors

#	Article	IF	Citations
1	Optimization of hybrid solar energy sources/wind turbine systems integrated to utility grids as microgrid (MG) under pool/bilateral/hybrid electricity market using PSO. Solar Energy, 2012, 86, 112-125.	2.9	127
2	GA-based optimal sizing of microgrid and DG units under pool and hybrid electricity markets. International Journal of Electrical Power and Energy Systems, 2012, 35, 83-92.	3.3	108
3	Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. IEEE Transactions on Smart Grid, 2020, 11, 3646-3657.	6.2	93
4	Probabilistic reactive power procurement in hybrid electricity markets with uncertain loads. Electric Power Systems Research, 2012, 82, 68-80.	2.1	83
5	Multi-agent microgrid energy management based on deep learning forecaster. Energy, 2019, 186, 115873.	4.5	83
6	Integration of Accelerated Deep Neural Network Into Power Transformer Differential Protection. IEEE Transactions on Industrial Informatics, 2020, 16, 865-876.	7.2	74
7	Advanced Deep Learning Approach for Probabilistic Wind Speed Forecasting. IEEE Transactions on Industrial Informatics, 2021, 17, 720-727.	7.2	67
8	A new approach of point estimate method for probabilistic load flow. International Journal of Electrical Power and Energy Systems, 2013, 51, 54-60.	3.3	62
9	Probabilistic Load Flow by Using Nonparametric Density Estimators. IEEE Transactions on Power Systems, 2013, 28, 3747-3755.	4.6	60
10	Islanding detection method for microgrid based on extracted features from differential transient rate of change of frequency. IET Generation, Transmission and Distribution, 2017, 11, 891-904.	1.4	55
11	Reactive power market management considering voltage control area reserve and system security. Applied Energy, 2011, 88, 3832-3840.	5.1	53
12	Parzen Window Density Estimator-Based Probabilistic Power Flow With Correlated Uncertainties. IEEE Transactions on Sustainable Energy, 2016, 7, 1170-1181.	5.9	49
13	Designing a composite deep learning based differential protection scheme of power transformers. Applied Soft Computing Journal, 2020, 87, 105975.	4.1	48
14	Resilience-oriented intentional islanding of reconfigurable distribution power systems. Journal of Modern Power Systems and Clean Energy, 2019, 7, 741-752.	3.3	36
15	Probabilistic harmonic load flow using fast point estimate method. IET Generation, Transmission and Distribution, 2015, 9, 1790-1799.	1.4	33
16	Probabilistic deep neural network price forecasting based on residential load and wind speed predictions. IET Renewable Power Generation, 2019, 13, 1840-1848.	1.7	33
17	Online monitoring of transformer winding axial displacement and its extent using scattering parameters and k-nearest neighbour method. IET Generation, Transmission and Distribution, 2011, 5, 824.	1.4	32
18	Power loss reduction of distribution systems using BFO based optimal reconfiguration along with DG and shunt capacitor placement simultaneously in fuzzy framework. Journal of Central South University, 2017, 24, 90-103.	1.2	29

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19	Stochastic Charging Optimization of V2G-Capable PEVs: A Comprehensive Model for Battery Aging and Customer Service Quality. IEEE Transactions on Transportation Electrification, 2020, 6, 1026-1034.	5.3	29
20	Dynamic state estimation of a permanent magnet synchronous generator–based wind turbine. IET Renewable Power Generation, 2016, 10, 1278-1286.	1.7	28
21	Power transformers internal fault diagnosis based on deep convolutional neural networks. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1165-1179.	0.8	28
22	Nonparametric Probabilistic Unbalanced Power Flow With Adaptive Kernel Density Estimator. IEEE Transactions on Smart Grid, 2019, 10, 3292-3300.	6.2	27
23	Application of core vector machines for on-line voltage security assessment using a decision-tree-based feature selection algorithm. IET Generation, Transmission and Distribution, 2009, 3, 701-712.	1.4	24
24	A new on-line monitoring method of transformer winding axial displacement based on measurement of scattering parameters and decision tree. Expert Systems With Applications, 2011, 38, 8886-8893.	4.4	24
25	The Generalized Cross-Entropy Method in Probabilistic Optimal Power Flow. IEEE Transactions on Power Systems, 2018, 33, 5738-5748.	4.6	24
26	A Systematic Method for Power System Hardening to Increase Resilience Against Earthquakes. IEEE Systems Journal, 2021, 15, 4970-4979.	2.9	24
27	Fuzzy-GA based algorithm for optimal placement and sizing of distribution static compensator (DSTATCOM) for loss reduction of distribution network considering reconfiguration. Journal of Central South University, 2017, 24, 245-258.	1.2	23
28	Real-Time Bearing Fault Diagnosis of Induction Motors with Accelerated Deep Learning Approach. , 2019, , .		23
29	Multi-objective optimal operation of integrated thermal-natural gas-electrical energy distribution systems. Applied Thermal Engineering, 2020, 181, 115951.	3.0	23
30	Fast stochastic security-constrained unit commitment using point estimation method. International Transactions on Electrical Energy Systems, 2016, 26, 671-688.	1.2	22
31	Islanding detection approach with negligible non-detection zone based on feature extraction discrete wavelet transform and artificial neural network. International Transactions on Electrical Energy Systems, 2016, 26, 2172-2192.	1.2	22
32	Optimal energy flow in integrated energy distribution systems considering unbalanced operation of power distribution systems. International Journal of Electrical Power and Energy Systems, 2020, 121, 106132.	3.3	22
33	Deep learning architecture for direct probability density prediction of small–scale solar generation. IET Generation, Transmission and Distribution, 2020, 14, 2017-2025.	1.4	22
34	Power System On-Line Static Security Assessment by Using Multi-Class Support Vector Machines. Journal of Applied Sciences, 2008, 8, 2226-2233.	0.1	22
35	Application of Ultra-Wideband Sensors for On-Line Monitoring of Transformer Winding Radial Deformations–A Feasibility Study. IEEE Sensors Journal, 2012, 12, 1649-1659.	2.4	21
36	A Combined Driver-Station Interactive Algorithm for a Maximum Mutual Interest in Charging Market. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2534-2544.	4.7	20

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37	Stochastic energy management in multi-carrier residential energy systems. Energy, 2020, 202, 117790.	4.5	20
38	Detection and Classification of Multiple Power Quality Disturbances based on Temporal Deep Learning. , 2019, , .		19
39	Reactive Power Provision in Electricity Markets Considering Voltage Stability and Transmission Congestion. Electric Power Components and Systems, 2011, 39, 1212-1226.	1.0	17
40	Nonparametric Probabilistic Load Flow With Saddle Point Approximation. IEEE Transactions on Smart Grid, 2018, 9, 4796-4804.	6.2	17
41	Optimization of the micro combined heat and power systems considering objective functions, components and operation strategies by an integrated approach. Energy Conversion and Management, 2020, 208, 112610.	4.4	15
42	Fault localisation and diagnosis in transmission networks based on robust deep Gabor convolutional neural network and PMU measurements. IET Generation, Transmission and Distribution, 2020, 14, 6484-6492.	1.4	15
43	On-line transient stability assessment of large-scale power systems by using ball vector machines. Energy Conversion and Management, 2010, 51, 640-647.	4.4	14
44	Fast GRNN-Based Method for Distinguishing Inrush Currents in Power Transformers. IEEE Transactions on Industrial Electronics, 2022, 69, 8501-8512.	5.2	14
45	Probabilistic harmonic load flow using an improved kernel density estimator. International Journal of Electrical Power and Energy Systems, 2016, 78, 292-298.	3.3	13
46	A new method based on state-estimation technique to enhance low-voltage ride-through capability of doubly-fed induction generator wind turbines. International Journal of Electrical Power and Energy Systems, 2018, 95, 118-127.	3.3	13
47	Nonlinear multivariable modeling of solid oxide fuel cells using core vector regression. International Journal of Hydrogen Energy, 2011, 36, 12538-12548.	3.8	12
48	Bacterial graphical user interface oriented by particle swarm optimization strategy for optimization of multiple type DFACTS for power quality enhancement in distribution system. Journal of Central South University, 2017, 24, 569-588.	1.2	12
49	Holomorphic embedding load flow for unbalanced radial distribution networks with DFIG and tapâ€changer modelling. IET Generation, Transmission and Distribution, 2019, 13, 4263-4273.	1.4	12
50	Wind Turbine Fault Diagnosis with Generative-Temporal Convolutional Neural Network. , 2019, , .		12
51	Modulated Gabor filter based deep convolutional network for electrical motor bearing fault classification and diagnosis. IET Science, Measurement and Technology, 2021, 15, 154-162.	0.9	12
52	Recent Development in Electricity Price Forecasting Based on Computational Intelligence Techniques in Deregulated Power Market. Energies, 2021, 14, 6104.	1.6	12
53	Dynamic state estimation of a doubly fed induction generator based on a comprehensive nonlinear model. Simulation Modelling Practice and Theory, 2016, 69, 92-112.	2.2	11
54	Deep Learning Forecaster-Based Controller for SVC: Wind Farm Flicker Mitigation. IEEE Transactions on Industrial Informatics, 2022, 18, 7030-7037.	7.2	11

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55	Prediction of wind farm reactive power fast variations by adaptive one-dimensional convolutional neural network. Computers and Electrical Engineering, 2021, 96, 107480.	3.0	11
56	On-line voltage security assessment of power systems using core vector machines. Engineering Applications of Artificial Intelligence, 2009, 22, 695-701.	4.3	10
57	Real-time electricity pricing of a comprehensive demand response model in smart grids. International Transactions on Electrical Energy Systems, 2017, 27, e2256.	1.2	10
58	Probability density function forecasting of residential electric vehicles charging profile. Applied Energy, 2022, 323, 119616.	5.1	10
59	Optimal sizing of micro grid & distributed generation units under pool electricity market. Journal of Renewable and Sustainable Energy, 2011, 3, 053103.	0.8	9
60	A double-input DC-DC converter for hybrid supply systems. , 2015, , .		9
61	Residualisationâ€based model order reduction in power networks with penetration of photovoltaic resources. IET Generation, Transmission and Distribution, 2019, 13, 2619-2626.	1.4	9
62	Ensemble Kalman Filter based Dynamic State Estimation of PMSG-based Wind Turbine. , 2019, , .		9
63	Wide-Area Composite Load Parameter Identification Based on Multi-Residual Deep Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6121-6131.	7.2	9
64	Application of Classifiers for On-line Monitoring of Transformer Winding Axial Displacement by Electromagnetic Non-destructive Testing. Electric Power Components and Systems, 2011, 39, 387-403.	1.0	8
65	Particle swarm optimization algorithm for simultaneous optimal placement and sizing of shunt active power conditioner (APC) and shunt capacitor in harmonic distorted distribution system. Journal of Central South University, 2017, 24, 2035-2048.	1.2	8
66	Application of generalised crossâ€entropy method in probabilistic power flow. IET Generation, Transmission and Distribution, 2018, 12, 2745-2754.	1.4	8
67	Two-Stage Deep Learning-based Wind Turbine Condition Monitoring Using SCADA Data. , 2020, , .		8
68	Power system transient security assessment based on deep learning considering partial observability. Electric Power Systems Research, 2022, 205, 107736.	2.1	8
69	An improved transformation based probabilistic load flow analysis using appropriate reference variable. International Journal of Electrical Power and Energy Systems, 2020, 120, 106052.	3.3	7
70	Model of Corona for Transient Study. , 2005, , .		6
71	Application of multi-class support vector machines for power system on-line static security assessment using DT - based feature and data selection algorithms. Journal of Intelligent and Fuzzy Systems, 2009, 20, 133-146.	0.8	6
72	On-line Small-signal Stability Assessment of Power Systems Using Ball Vector Machines. Electric Power Components and Systems, 2010, 38, 1427-1445.	1.0	6

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73	Dynamic stability improvement of a power system incorporating DFIG wind power plant using optimized control parameters of a SVC. , 2012, , .		6
74	Application of core vector machines for induction motor drive fault diagnosis. Journal of Intelligent and Fuzzy Systems, 2015, 29, 1-14.	0.8	6
75	Soft clustering based probabilistic power flow with correlated inter temporal events. Electric Power Systems Research, 2022, 204, 107677.	2.1	6
76	Stochastic Optimal Sizing of Plug-in Electric Vehicle Parking Lots in Reconfigurable Power Distribution Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17003-17014.	4.7	6
77	Fault Location and Faulty Line Selection in Transmission Networks: Application of Improved Gated Recurrent Unit. IEEE Systems Journal, 2022, 16, 5056-5066.	2.9	6
78	A high step-up current-fed phase-shift double-input DC-DC converter using asymmetrical PWM switching strategy. , 2015, , .		5
79	Online Decision Tree based strategy for power system static security margin improvement using wind farms. International Journal of Electrical Power and Energy Systems, 2016, 83, 15-20.	3.3	5
80	Differential Protection of Power Transformers based on RSLVQ-Gradient Approach Considering SFCL. , 2021, , .		5
81	Nonparametric preventive/corrective voltage stability enhancement of active distribution systems with integrated electric vehicles charging facilities. International Journal of Electrical Power and Energy Systems, 2021, 129, 106813.	3.3	5
82	A multi-criteria logical based approach for optimal planning and assessment of rule-based hybrid load following micro combined heat and power systems. Energy Conversion and Management, 2021, 243, 114338.	4.4	5
83	Probabilistic Load Flow Based on Parameterized Probability-Boxes for Systems With Insufficient Information. IEEE Access, 2021, 9, 161038-161045.	2.6	5
84	Probabilistic and Deterministic Wind Speed Prediction: Ensemble Statistical Deep Regression Network. IEEE Access, 2022, 10, 47063-47075.	2.6	5
85	Detection and Classification of Transformer Winding Mechanical Faults Using UWB Sensors and Bayesian Classifier. International Journal of Emerging Electric Power Systems, 2015, 16, 207-215.	0.6	4
86	Optimal Placement and Sizing of Fault Current Limiters in Power Systems with Uncertainties. , 2019, , .		4
87	Enhancement of low-voltage ride-through capability of permanent magnet synchronous generator wind turbine by applying state-estimation technique. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 363-377.	0.5	4
88	Stochastic distributed microgrid energy management based on over‐relaxed alternative direction method of multipliers. IET Renewable Power Generation, 2020, 14, 2639-2648.	1.7	4
89	A new BVM based approach to transient security assessment. European Transactions on Electrical Power, 2010, 20, 1163-1176.	1.0	3
90	Artificial Intelligence‐Based Loss Allocation Algorithm in Open Access Environments. Journal of Energy Engineering - ASCE, 2014, 140, 04013021.	1.0	3

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91	Intelligent hierarchical structure of classifiers to assess static security of power system. Journal of Intelligent and Fuzzy Systems, 2015, 28, 2875-2880.	0.8	3
92	New Computing Method for Techno-Economic Analysis of the Photovoltaic Water Pumping System Using Fuzzy based NSGAII Optimization Approach. Automatika, 2015, 56, 132-139.	1.2	3
93	Determining inactive constraints inÂstochastic security-constrained unitÂcommitment using cumulants. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2123-2135.	0.8	3
94	Utilizing MATLAB-Simulink Based Technique for Teaching Advantages of Reactive Power Compensation Using Shunt Capacitors to Undergraduate Students. International Journal of Electrical Engineering and Education, 2014, 51, 262-278.	0.4	2
95	A new nonparametric density estimation for probabilistic security-constrained economic dispatch. Journal of Intelligent and Fuzzy Systems, 2016, 31, 367-378.	0.8	2
96	Detection and Localization of Transmission Line Faults based on a Hybrid Two-Stage Technique considering Wind Power Generation. , 2021, , .		2
97	Photovoltaic Array Fault Detection and Classification based on T-Distributed Stochastic Neighbor Embedding and Robust Soft Learning Vector Quantization. , 2021, , .		2
98	A Comparative Analysis of Artificial Intelligence for Power Transformer Differential Protection. , 2021, , .		2
99	A non-isolated high step-up DC-DC converter with soft switching using coupled inductor. , 2015, , .		1
100	An efficient framework for short-term electricity price forecasting in deregulated power market. IEEE Access, 2024, , 1-1.	2.6	1
101	Dataâ€driven lookâ€ahead voltage stability assessment of power system with correlated variables. IET Generation, Transmission and Distribution, 2022, 16, 1795-1807.	1.4	1
102	Redundancy-based approach for optimal number and location of power quality monitors in distribution systems with binary imperialist competitive approach. Automatika, 2022, 63, 132-148.	1.2	1
103	Design of 8 bit, 1633Âμm2, 444ÂμW squarer hardware for high performance VLSI applications. , 2017, , .		0
104	Allocation of FCLs in Transmission Networks with High Penetration of DGs: A Two-Stage Approach. , 2021, , .		0
105	Hierarchical Microenergy Hub Sizing and Placement in Integrated Electricity and Natural Gas Distribution Systems. IEEE Systems Journal, 2022, , 1-12.	2.9	0