

Behrooz Vahidi

List of Publications by Year in descending order

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260
papers

4,981
citations

109264

35
h-index

133188

59
g-index

261
all docs

261
docs citations

261
times ranked

4017
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the Bee Algorithm for Selective Harmonic Elimination Strategy in Multilevel Inverters. IEEE Transactions on Power Electronics, 2012, 27, 1689-1696.	5.4	304
2	A robust PID controller based on imperialist competitive algorithm for load-frequency control of power systems. ISA Transactions, 2013, 52, 88-95.	3.1	283
3	A novel physical based meta-heuristic optimization method known as Lightning Attachment Procedure Optimization. Applied Soft Computing Journal, 2017, 59, 596-621.	4.1	152
4	Reconfiguration and Capacitor Placement Simultaneously for Energy Loss Reduction Based on an Improved Reconfiguration Method. IEEE Transactions on Power Systems, 2012, 27, 587-595.	4.6	133
5	DSTATCOM allocation in distribution networks considering reconfiguration using differential evolution algorithm. Energy Conversion and Management, 2011, 52, 2777-2783.	4.4	120
6	Bacterial Foraging-Based Solution to the Unit-Commitment Problem. IEEE Transactions on Power Systems, 2009, 24, 1478-1488.	4.6	108
7	A Solution to the Unit Commitment Problem Using Imperialistic Competition Algorithm. IEEE Transactions on Power Systems, 2012, 27, 117-124.	4.6	103
8	Evaluation and Control of Stray Current in DC-Electrified Railway Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 974-980.	3.9	102
9	Hybrid shuffled frog leaping algorithm and Nelder-Mead simplex search for optimal reactive power dispatch. IET Generation, Transmission and Distribution, 2011, 5, 249.	1.4	100
10	The Impact of Solid State Fault Current Limiter on Power Network With Wind-Turbine Power Generation. IEEE Transactions on Smart Grid, 2013, 4, 1188-1196.	6.2	97
11	Bacterial foraging solution based fuzzy logic decision for optimal capacitor allocation in radial distribution system. Electric Power Systems Research, 2011, 81, 1045-1050.	2.1	88
12	An Educational Guide to Extract the Parameters of Heavy Duty Gas Turbines Model in Dynamic Studies Based on Operational Data. IEEE Transactions on Power Systems, 2009, 24, 1366-1374.	4.6	80
13	A novel meta-heuristic optimization method based on golden ratio in nature. Soft Computing, 2020, 24, 1117-1151.	2.1	75
14	Independent distributed generation planning to profit both utility and DG investors. IEEE Transactions on Power Systems, 2013, 28, 1170-1178.	4.6	73
15	Improved fault location algorithm for radial distribution systems with discrete and continuous wavelet analysis. International Journal of Electrical Power and Energy Systems, 2015, 67, 423-430.	3.3	71
16	Power quality disturbance classification using a statistical and wavelet-based Hidden Markov Model with Dempster-Shafer algorithm. International Journal of Electrical Power and Energy Systems, 2013, 47, 368-377.	3.3	70
17	New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. IEEE Transactions on Power Systems, 2020, 35, 527-538.	4.6	69
18	Solution of combined economic and emission dispatch problem using a novel chaotic improved harmony search algorithm. Journal of Computational Design and Engineering, 2019, 6, 447-467.	1.5	62

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19	A hybrid SVM-TT transform-based method for fault location in hybrid transmission lines with underground cables. <i>Electric Power Systems Research</i> , 2019, 170, 205-214.	2.1	57
20	A New Stochastic Model of Electric Arc Furnace Based on Hidden Markov Model: A Study of Its Effects on the Power System. <i>IEEE Transactions on Power Delivery</i> , 2012, 27, 1893-1901.	2.9	54
21	Optimal sizing of battery energy storage in a microgrid considering capacity degradation and replacement year. <i>Electric Power Systems Research</i> , 2021, 195, 107170.	2.1	52
22	Thermal analysis of cast-resin dry-type transformers. <i>Energy Conversion and Management</i> , 2011, 52, 2479-2488.	4.4	49
23	Reconfiguration of distribution networks to mitigate utilities power quality disturbances. <i>Electric Power Systems Research</i> , 2012, 91, 9-17.	2.1	46
24	A novel application of wavelet based SVM to transient phenomena identification of power transformers. <i>Energy Conversion and Management</i> , 2011, 52, 1354-1363.	4.4	44
25	Health index calculation for power transformers using technical and economical parameters. <i>IET Science, Measurement and Technology</i> , 2016, 10, 823-830.	0.9	43
26	Harmonic Elimination and Optimization of Stepped Voltage of Multilevel Inverter by Bacterial Foraging Algorithm. <i>Journal of Electrical Engineering and Technology</i> , 2010, 5, 545-551.	1.2	43
27	A novel comprehensive method to enhance stability of multi-VSG grids. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 104, 502-514.	3.3	42
28	Leader Progression Analysis Model for Shielding Failure Computation by Using the Charge Simulation Method. <i>IEEE Transactions on Power Delivery</i> , 2008, 23, 2201-2206.	2.9	40
29	Double-Deck Buck-Boost Converter With Soft Switching Operation. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 4324-4330.	5.4	39
30	A significant reduction in the costs of battery energy storage systems by use of smart parking lots in the power fluctuation smoothing process of the wind farms. <i>Renewable Energy</i> , 2016, 87, 1-14.	4.3	39
31	Fault location on a series-compensated three-terminal transmission line using deep neural networks. <i>IET Science, Measurement and Technology</i> , 2018, 12, 746-754.	0.9	39
32	A coordinated planner-disaster-risk-averse-planner investment model for enhancing the resilience of integrated electric power and natural gas networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 119, 105948.	3.3	38
33	Improvement of voltage stability and reduce power system losses by optimal GA-based allocation of multi-type FACTS devices. , 2008, , .		37
34	Parameter identification of Jiles-Atherton model using SFLA. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2012, 31, 1293-1309.	0.5	37
35	CO ₂ /CO concentration ratio: A complementary method for determining the degree of polymerization of power transformer paper insulation. <i>IEEE Electrical Insulation Magazine</i> , 2017, 33, 24-30.	1.1	37
36	A novel multi-objective optimization algorithm based on Lightning Attachment Procedure Optimization algorithm. <i>Applied Soft Computing Journal</i> , 2019, 75, 404-427.	4.1	37

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37	Effect of applied voltage on jet electric current and flow rate in electrospinning of polyacrylonitrile solutions. <i>Polymer International</i> , 2008, 57, 1363-1368.	1.6	36
38	Probabilistic Evaluation of Optimal Location of Surge Arresters on EHV and UHV Networks Due to Switching and Lightning Surges. <i>IEEE Transactions on Power Delivery</i> , 2009, 24, 1903-1911.	2.9	36
39	Transmission-Lines Shielding Failure-Rate Calculation by Means of 3-D Leader Progression Models. <i>IEEE Transactions on Power Delivery</i> , 2011, 26, 507-516.	2.9	36
40	Optimal output power of not properly designed wind farms, considering wake effects. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 63, 44-50.	3.3	36
41	A survey on energy storage resources configurations in order to propose an optimum configuration for smoothing fluctuations of future large wind power plants. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 158-172.	8.2	35
42	Accurate fault location and faulted section determination based on deep learning for a parallel-compensated three-terminal transmission line. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 2770-2778.	1.4	35
43	Sizing and Siting of DERs in Active Distribution Networks Incorporating Load Prevailing Uncertainties Using Probabilistic Approaches. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4156.	1.3	34
44	Magnetizing inrush current identification using wavelet based gaussian mixture models. <i>Simulation Modelling Practice and Theory</i> , 2009, 17, 991-1010.	2.2	33
45	Statistical evaluation of lightning-related failures for the optimal location of surge arresters on the power networks. <i>IET Generation, Transmission and Distribution</i> , 2009, 3, 129-144.	1.4	33
46	A wavelet-based method to discriminate internal faults from inrush currents using correlation coefficient. <i>International Journal of Electrical Power and Energy Systems</i> , 2010, 32, 788-793.	3.3	32
47	A novel protection scheme for low voltage DC microgrid using inductance estimation. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 120, 105992.	3.3	31
48	Power System Security Improvement by Using Differential Evolution Algorithm Based FACTS Allocation. , 2008, , .		30
49	Improvement of low frequency oscillation damping by allocation and design of power system stabilizers in the multi-machine power system. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 52, 207-220.	3.3	30
50	ADALINE (ADaptive Linear NEuron)-based coordinated control for wind power fluctuations smoothing with reduced BESS (battery energy storage system) capacity. <i>Energy</i> , 2016, 101, 1-8.	4.5	30
51	Modelling of inrush current in transformers using inverse Jiles-Atherton hysteresis model with a Neuro-shuffled frog-leaping algorithm approach. <i>IET Electric Power Applications</i> , 2012, 6, 727.	1.1	28
52	Time-frequency transform application to fault diagnosis of power transformers. <i>IET Generation, Transmission and Distribution</i> , 2014, 8, 1156-1167.	1.4	28
53	Two-level decision-making model for a distribution company in day-ahead market. <i>IET Generation, Transmission and Distribution</i> , 2015, 9, 1308-1315.	1.4	27
54	A probabilistic approach for optimal power cable ampacity computation by considering uncertainty of parameters and economic constraints. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 106, 432-443.	3.3	27

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55	Determining Parameters of Turbine's Model Using Heat Balance Data of Steam Power Unit for Educational Purposes. IEEE Transactions on Power Systems, 2007, 22, 1547-1553.	4.6	26
56	Optimal sizing and siting of DGs for loss reduction using an iterative-analytical method. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	25
57	Incipient Faults Monitoring in Underground Medium Voltage Cables of Distribution Systems Based on a Two-Step Strategy. IEEE Transactions on Power Delivery, 2019, 34, 1647-1655.	2.9	25
58	Optimal placement of underground cables to maximise total ampacity considering cable lifetime. IET Generation, Transmission and Distribution, 2016, 10, 263-269.	1.4	24
59	A novel approach to adaptive single phase auto-reclosing scheme for EHV transmission lines. International Journal of Electrical Power and Energy Systems, 2011, 33, 639-646.	3.3	23
60	Reliability evaluation of distribution transformers with high penetration of distributed generation. International Journal of Electrical Power and Energy Systems, 2015, 73, 163-169.	3.3	23
61	Simultaneous Distributed Generation Placement, Capacitor Placement, and Reconfiguration using a Modified Teaching-Learning-based Optimization Algorithm. Electric Power Components and Systems, 2016, 44, 1631-1644.	1.0	23
62	On the network economic, technical and reliability characteristics improvement through demand response implementation considering consumers' behaviour. IET Generation, Transmission and Distribution, 2018, 12, 431-440.	1.4	23
63	Optimal configuration of underground cables to maximise total ampacity considering current harmonics. IET Generation, Transmission and Distribution, 2014, 8, 1090-1097.	1.4	22
64	Insulation failure detection in transformer winding using cross-correlation technique with ANN and k-NN regression method during impulse test. International Journal of Electrical Power and Energy Systems, 2013, 53, 209-218.	3.3	21
65	A two step optimization algorithm for wind turbine generator placement considering maximum allowable capacity. Renewable Energy, 2016, 92, 75-82.	4.3	21
66	LPM-Based Shielding Performance Analysis of High-Voltage Substations Against Direct Lightning Strokes. IEEE Transactions on Power Delivery, 2017, 32, 2218-2227.	2.9	21
67	Power system flexibility improvement with a focus on demand response and wind power variability. IET Renewable Power Generation, 2020, 14, 1095-1103.	1.7	21
68	A Hybrid Superconducting Fault Current Controller for DG Networks and Microgrids. IEEE Transactions on Applied Superconductivity, 2013, 23, 5604306-5604306.	1.1	20
69	A new optimal approach for improvement of active power filter using FPSO for enhancing power quality. International Journal of Electrical Power and Energy Systems, 2015, 69, 188-199.	3.3	19
70	Optimal scheduling of dispatchable distributed generation in smart environment with the aim of energy loss minimization. Energy, 2016, 116, 190-201.	4.5	19
71	New Methods for Computation of the Inductance Matrix of Transformer Windings for Very Fast Transients Studies. IEEE Transactions on Power Delivery, 2012, 27, 2326-2333.	2.9	18
72	Duality-Synthesized Circuit for Eddy Current Effects in Transformer Windings. IEEE Transactions on Power Delivery, 2013, 28, 1063-1072.	2.9	18

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73	Optimal Surge Arrester Parameter Estimation Using a PSO-Based Multiobjective Approach. IEEE Transactions on Power Delivery, 2013, 28, 1758-1769.	2.9	18
74	Combined analytical and FEM methods for parameters calculation of detailed model for dry-type transformer. Simulation Modelling Practice and Theory, 2010, 18, 390-403.	2.2	17
75	Mitigation of windfarm power fluctuation by adaptive linear neuron-based power tracking method with flexible learning rate. IET Renewable Power Generation, 2014, 8, 659-669.	1.7	17
76	Wind farms participation in electricity markets considering uncertainties. Renewable Energy, 2017, 101, 907-918.	4.3	17
77	Optimizing Configuration of Cyber Network Considering Graph Theory Structure and Teaching-based Learning-Based Optimization (GT-TLBO). IEEE Transactions on Industrial Informatics, 2019, 15, 2083-2090.	7.2	17
78	Analytical calculation of detailed model parameters of cast resin dry-type transformers. Energy Conversion and Management, 2011, 52, 2565-2574.	4.4	16
79	New Equivalent Circuit of Transformer Winding for the Calculation of Resonance Transients Considering Frequency-Dependent Losses. IEEE Transactions on Power Delivery, 2015, 30, 1743-1751.	2.9	16
80	Using PSpice in Teaching Impulse Voltage Testing of Power Transformers to Senior Undergraduate Students. IEEE Transactions on Education, 2005, 48, 307-312.	2.0	15
81	A new adaptive single phase auto-reclosure scheme for EHV transmission lines. , 2008, , .		15
82	Estimation of shielding failure number of different configurations of double-circuit transmission lines using leader progression analysis model. Electrical Engineering, 2010, 92, 79-85.	1.2	15
83	Optimal Multi-objective Number, Locating, and Sizing of Distributed Generations and Distributed Static Compensators Considering Loadability using the Genetic Algorithm. Electric Power Components and Systems, 2016, 44, 2161-2171.	1.0	15
84	Time-time matrix z-score vector-based fault analysis method for series-compensated transmission lines. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 2647-2659.	0.9	15
85	A Novel Discriminative Approach Based on Hidden Markov Models and Wavelet Transform to Transformer Protection. Simulation, 2010, 86, 93-107.	1.1	14
86	Stability Constrained Optimal Power Flow in Deregulated Power Systems. Electric Power Components and Systems, 2011, 39, 713-732.	1.0	14
87	Simultaneous distributed generation and capacitor placement and sizing in radial distribution system considering reactive power market. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	14
88	Optimal dispatchable DG allocation in a distribution network considering load growth with a mixed-PSO algorithm. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 3049-3065.	0.9	14
89	Price restricted optimal bidding model using derated sensitivity factors by considering risk concept. IET Generation, Transmission and Distribution, 2016, 10, 310-324.	1.4	14
90	Power transformer cellulosic insulation destruction assessment using a calculated index composed of CO, CO ₂ , 2-Furfural, and Acetylene. Cellulose, 2021, 28, 489-502.	2.4	14

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91	Day-Ahead scheduling of centralized energy storage system in electrical networks by proposed stochastic MILP-Based bi-objective optimization approach. Electric Power Systems Research, 2021, 192, 106915.	2.1	14
92	Optimal multi-type FACTS allocation using genetic algorithm to improve power system security. , 2008, , .		13
93	A Novel Approach to Adaptive Single Phase Autoreclosure Scheme for EHV Power Transmission Lines Based on Learning Error Function of ADALINE. Simulation, 2008, 84, 601-610.	1.1	13
94	Effect of applied voltage on surface and volume charge density of the jet in electrospinning of polyacrylonitrile solutions. Polymer Engineering and Science, 2010, 50, 1372-1376.	1.5	13
95	An Approach to Detection of High Impedance Fault Using Discrete Wavelet Transform and Artificial Neural Networks. Simulation, 2010, 86, 203-215.	1.1	13
96	Active distribution networks islanding issues: An introduction. , 2012, , .		13
97	A modified methodology in electricity tracing problems based on Bialek's method. International Journal of Electrical Power and Energy Systems, 2014, 60, 74-81.	3.3	13
98	An application of grey wolf optimizer for optimal power flow of wind integrated power systems. , 2017, , .		13
99	Considering variations of network topology in optimal relay coordination using time-current-voltage characteristic. , 2017, , .		13
100	Corona detection on surfaces of insulators using ultrasound sensors and fibre-optic transmission systems. European Transactions on Electrical Power, 2005, 15, 413-424.	1.0	12
101	Application of Ant Colony System algorithm to distribution networks reconfiguration for loss reduction. , 2008, , .		12
102	Determining arresters best positions in power system for lightning shielding failure protection using simulation optimization approach. European Transactions on Electrical Power, 2010, 20, 255-276.	1.0	12
103	Shielding failure rate calculation by means of downward and upward lightning leader movement models: Effect of environmental conditions. Journal of Electrostatics, 2010, 68, 275-283.	1.0	12
104	Feasibility analysis and optimal planning of renewable energy systems for industrial loads of a dairy factory in Tehran, Iran. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	12
105	Fractal-based lightning model for shielding failure rate calculation of transmission lines. IET Science, Measurement and Technology, 2018, 12, 719-725.	0.9	12
106	Wind turbine and ultra-capacitor harvested energy increasing in microgrid using wind speed forecasting. Engineering Science and Technology, an International Journal, 2019, 22, 1161-1167.	2.0	12
107	Integrated protection scheme for both operation modes of microgrid using S-Transform. International Journal of Electrical Power and Energy Systems, 2020, 121, 106051.	3.3	12
108	Enhancement of Power System Transient Stability and Power Quality Using a Novel Solid-state Fault Current Limiter. Journal of Electrical Engineering and Technology, 2011, 6, 474-483.	1.2	12

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109	Estimation of shielding failure number of transmission lines for different trace configurations using leader progression analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2012, 38, 27-32.	3.3	11
110	Small-compressed air energy storage system integrated with induction generator for metropolises: A case study. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 21, 365-370.	8.2	11
111	Shuffled frog leaping algorithm optimization for AC-DC optimal power flow dispatch. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2014, 22, 874-892.	0.9	11
112	Multi objective self adaptive optimization method to maximize ampacity and minimize cost of underground cables. <i>Journal of Computational Design and Engineering</i> , 2018, 5, 401-408.	1.5	11
113	A fractal-based stepped downward leader model including branched channel charge distribution and branch fading. <i>Electric Power Systems Research</i> , 2019, 176, 105940.	2.1	11
114	Estimation of power transformer remaining life from activation energy and pre-exponential factor in the Arrhenius equation. <i>Cellulose</i> , 2019, 26, 9709-9720.	2.4	11
115	MATLAB/SIMULINK based simulation for digital differential relay protection of power transformer for educational purpose. <i>Computer Applications in Engineering Education</i> , 2013, 21, 475-483.	2.2	10
116	Installing distributed generation units and capacitors simultaneously in a distribution system considering economic issues. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, 023122.	0.8	10
117	Theoretical and experimental modeling of EHD conduction in porous conductive material inside a tube. <i>Journal of Electrostatics</i> , 2019, 97, 15-25.	1.0	10
118	Security constrained multi-objective bi-directional integrated electricity and natural gas co-expansion planning considering multiple uncertainties of wind energy and system demand. <i>IET Renewable Power Generation</i> , 2020, 14, 1395-1404.	1.7	10
119	A New Protection Scheme for High Impedance Fault Detection using Wavelet Packet Transform. <i>Advances in Electrical and Computer Engineering</i> , 2010, 10, 17-20.	0.5	10
120	Statistical analysis of the lightning performance of high voltage OHLs using dynamic simulation of lightning leaders movements. <i>International Journal of Electrical Power and Energy Systems</i> , 2010, 32, 1024-1030.	3.3	9
121	Teaching current tests on surge arresters to undergraduate students using MATLAB/SIMULINK. <i>Computer Applications in Engineering Education</i> , 2012, 20, 391-399.	2.2	9
122	Time domain single-phase reclosure scheme for transmission lines based on dual-Gaussian mixture models. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 625-632.	4.3	9
123	Current Transformer Saturation Detection Using Gaussian Mixture Models. <i>Journal of Applied Research and Technology</i> , 2013, 11, 79-87.	0.6	9
124	Superior decoupled control of active and reactive power for three-phase voltage source converters. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2015, 23, 1025-1039.	0.9	9
125	A Predictive Reactive Power Measuring Based on Time Series and DLSL Algorithm for Compensating Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 2646-2656.	2.4	9
126	An intelligent-reduced time method to analyze lightning performance of communication towers and validation using experimental tests. <i>Electric Power Systems Research</i> , 2019, 173, 143-152.	2.1	9

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127	Extending protection selectivity in low voltage DC microgrids using compensation gain and artificial line inductance. <i>Electric Power Systems Research</i> , 2020, 188, 106530.	2.1	9
128	A Novel Algorithm for Fault Type Fast Diagnosis in Overhead Transmission Lines Using Hidden Markov Models. <i>Journal of Electrical Engineering and Technology</i> , 2011, 6, 742-749.	1.2	9
129	Electric field and voltage distribution on ZnO surge arrester. , 0, , .		8
130	Multiphase transmission line modeling for voltage sag estimation. <i>Electrical Engineering</i> , 2010, 92, 99-109.	1.2	8
131	A software based on MATLAB for teaching substation lightning protection design to undergraduate students with emphasize on different striking distance models. <i>Computer Applications in Engineering Education</i> , 2011, 19, 256-267.	2.2	8
132	Teaching short circuit breaking test on high-voltage circuit breakers to undergraduate students by using MATLAB-SIMULINK. <i>Computer Applications in Engineering Education</i> , 2013, 21, 459-466.	2.2	8
133	Shuffled Frog-Leaping Algorithm for Control of Selective and Total Harmonic Distortion. <i>Journal of Applied Research and Technology</i> , 2014, 12, 111-121.	0.6	8
134	Islanding Detection in Unbalanced Distribution Systems with Doubly Fed Induction Generator Based Distributed Generation Using Wavelet Transform. <i>Electric Power Components and Systems</i> , 2015, 43, 866-878.	1.0	8
135	Risk management of smart grids based on plug-in hybrid electric vehicles' charging considering transformers' hottest spot temperature-dependent aging failures. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, 034102.	0.8	8
136	A Novel Optimized Fuzzy Approach Based on Monte Carlo Method for System Load, Wind Turbine and Photovoltaic Unit Uncertainty Modeling in Unit Commitment. <i>Electric Power Components and Systems</i> , 2016, 44, 833-842.	1.0	8
137	Techno-economical lifetime assessment of power transformers rated over 50MVA using artificial intelligence models. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 3885-3892.	1.4	8
138	A probabilistic method for cost minimization in a day-ahead electricity market considering wind power uncertainties. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	8
139	Quality Confirmation Tests for Power Transformer Insulation Systems. , 2019, , .		8
140	Reliability evaluation of distribution transformers considering the negative and positive effects of rooftop photovoltaics. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 3063-3069.	1.4	8
141	A Flexible Risk-Averse Strategy Considering Uncertainties of Demand and Multiple Wind Farms in Electrical Grids. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 2255-2263.	7.2	8
142	Discrete-event simulation of the shielding failure of the arrester protected overhead-lines to evaluate risk of flashover. <i>International Journal of Electrical Power and Energy Systems</i> , 2008, 30, 614-623.	3.3	7
143	A new stochastic method based on Hidden Markov Models to transformer differential protection. , 2008, , .		7
144	Optimization of Surge Arrester's Location on EHV and UHV Power Networks Using Simulation Optimization Method. <i>IEEJ Transactions on Power and Energy</i> , 2008, 128, 1465-1472.	0.1	7

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145	Estimating the Parameters of Dynamic Model of Drum Type Boilers Using Heat Balance Data as an Educational Procedure. IEEE Transactions on Power Systems, 2011, 26, 775-782.	4.6	7
146	Development of optimal shunt hybrid compensator based on improving the measurement of various signals. Measurement: Journal of the International Measurement Confederation, 2015, 69, 250-263.	2.5	7
147	Reconfiguration of Smart Distribution Network in the Presence of Renewable DG's Using GWO Algorithm. IOP Conference Series: Earth and Environmental Science, 2017, 83, 012003.	0.2	7
148	Optimal Allocation and Operating Point of DG Units in Radial Distribution Network Considering Load Pattern. Electric Power Components and Systems, 2017, 45, 1287-1297.	1.0	7
149	Impact of Optimal Unified Power Flow Controller in Electrical Transmission Systems in Reducing Transmission Cost. Electric Power Components and Systems, 2017, 45, 1762-1772.	1.0	7
150	A new evolutionary-analytical two-step optimization method for optimal wind turbine allocation considering maximum capacity. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	7
151	The effect of the inclined lightning channel on electromagnetic fields and the induced voltages on overhead lines. Electrical Engineering, 2021, 103, 3163-3176.	1.2	7
152	Model of Corona for Transient Study. , 2005, , .		6
153	An Algorithm for Evaluating Inrush Current in Transformers Using Jiles-Atherton Theory of Ferromagnetic Hysteresis. , 2006, , .		6
154	Effect of LiCl and non-ionic surfactant on morphology of polystyrene electrospun nanofibers. E-Polymers, 2008, 8, .	1.3	6
155	A novel approach for optimizing dead time of extra high voltage transmission lines. , 2008, , .		6
156	Effects of feed rate and solution conductivity on jet current and fiber diameter in electrospinning of polyacrylonitrile solutions. E-Polymers, 2009, 9, .	1.3	6
157	Novel Approach for Determination of Worst Loading Direction and Fast Prediction of Stability Margin in Power Systems. Simulation, 2010, 86, 729-741.	1.1	6
158	Teaching ferroresonance in power system to undergraduate students by using MATLAB-SIMULINK. Computer Applications in Engineering Education, 2011, 19, 347-357.	2.2	6
159	Development of a thermal and electrical energy management in residential building micro-grid. Journal of Renewable and Sustainable Energy, 2014, 6, 013126.	0.8	6
160	Fault ride-through capability improvement of doubly fed induction generator-based wind turbine using static volt ampere reactive compensator. Journal of Renewable and Sustainable Energy, 2015, 7, 023134.	0.8	6
161	An effective approach for optimal placement of non-dispatchable renewable distributed generation. Journal of Renewable and Sustainable Energy, 2017, 9, 015303.	0.8	6
162	Fault Current Limiter Placement Using Multi-Objective Firework Algorithm. Electric Power Components and Systems, 2017, 45, 1929-1940.	1.0	6

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163	Improved electro-geometric model for shielding failure analysis of transmission lines. IET Science, Measurement and Technology, 2018, 12, 542-547.	0.9	6
164	Hong Point Estimate Method to analyze uncertainty in the underground cables temperature. International Journal of Electrical Power and Energy Systems, 2021, 124, 106390.	3.3	6
165	Acoustic diagnoses of ac corona on the surfaces of insulators. , 0, , .		5
166	Reliable prediction of Hopf bifurcation in power systems. Electrical Engineering, 2009, 91, 61-68.	1.2	5
167	Transient simulation of cast-resin dry-type transformers using FEM. European Transactions on Electrical Power, 2011, 21, 363-379.	1.0	5
168	Using the Instantaneous Power Theory in order to control the current in the parallel active filter to compensate reactive power and reduction of harmonics. , 2012, , .		5
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170	Analyses of launch sites lightning protection systems by 3D numerical modelling and experimental tests. IET Science, Measurement and Technology, 2018, 12, 958-964.	0.9	5
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