

List of Publications by Year in descending order

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148
papers

6,794
citations

66343

42
h-index

69250

77
g-index

148
all docs

148
docs citations

148
times ranked

4517
citing authors

#	ARTICLE	IF	CITATIONS
1	A variant of Newtonâ€”Raphson method with thirdâ€”order convergence for energy flow calculation of the integrated electric power and natural gas system. IET Generation, Transmission and Distribution, 2022, 16, 2766-2776.	2.5	6
2	Order reduction method for high-order dynamic analysis of heterogeneous integrated energy systems. Applied Energy, 2022, 308, 118265.	10.1	9
3	A composite voltage stability index for integrated energy systems based on L-index and the minimum eigenvalue of reduced Jacobian matrix. International Journal of Electrical Power and Energy Systems, 2022, 141, 108136.	5.5	2
4	Multi-attribute decision analysis for optimal design of park-level integrated energy systems based on load characteristics. Energy, 2022, 254, 124379.	8.8	10
5	Many-objective interactive optimization and decision making for distribution network expansion planning. Control Engineering Practice, 2021, 116, 104917.	5.5	3
6	Sensor fault-tolerant control of DFIG based wind energy conversion systems. International Journal of Electrical Power and Energy Systems, 2020, 117, 105563.	5.5	11
7	Reduction of non-linear many objectives for coordinated operation of integrated energy systems. International Journal of Electrical Power and Energy Systems, 2020, 117, 105657.	5.5	8
8	Individual-based distributed parallel optimization for operation of integrated energy systems considering heterogeneous structure. International Journal of Electrical Power and Energy Systems, 2020, 118, 105777.	5.5	8
9	Power Flow Analysis of Integrated Gas and Electricity Systems Using the Fast and Flexible Holomorphic Embedding Method. , 2020, , .		3
10	Probabilistic active distribution network equivalence with correlated uncertain injections for grid analysis. IET Renewable Power Generation, 2020, 14, 1964-1977.	3.1	2
11	Distributionally Robust Economic Dispatch Considering the Uncertainty and Correlation of Wind Farm Outputs. , 2020, , .		1
12	Ultra-short-term forecast of wind speed and wind power based on morphological high frequency filter and double similarity search algorithm. International Journal of Electrical Power and Energy Systems, 2019, 104, 868-879.	5.5	49
13	Co-planning and Feasibility Assessment of an Integrated Energy System Embedded with Power-to-Gas Plants. , 2019, , .		3
14	Multi-time scale dynamic analysis of integrated energy systems: An individual-based model. Applied Energy, 2019, 237, 848-861.	10.1	44
15	Decentralized state estimation of combined heat and power systems using the asynchronous alternating direction method of multipliers. Applied Energy, 2019, 248, 600-613.	10.1	45
16	Multi-stage contingency-constrained co-planning for electricity-gas systems interconnected with gas-fired units and power-to-gas plants using iterative Benders decomposition. Energy, 2019, 180, 689-701.	8.8	30
17	Twoâ€”level areaâ€”load modelling for OPF of power system using reinforcement learning. IET Generation, Transmission and Distribution, 2019, 13, 4141-4149.	2.5	2
18	Passive control design for multi-terminal VSC-HVDC systems via energy shaping. International Journal of Electrical Power and Energy Systems, 2018, 98, 496-508.	5.5	33

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19	Perturbation observer-based adaptive passive control for nonlinear systems with uncertainties and disturbances. Transactions of the Institute of Measurement and Control, 2018, 40, 1223-1236.	1.7	7
20	Fault-tolerant control of doubly-fed induction generators under voltage and current sensor faults. International Journal of Electrical Power and Energy Systems, 2018, 98, 48-61.	5.5	17
21	A Novel Load Clustering Method Based on Entropy Features Considering Longitudinal Characteristics. , 2018, , .		2
22	Investigation on Dynamic Stability of an Islanded Microgrid and Optimization for Its Controller Parameters. , 2018, , .		1
23	Risk constrained stochastic economic dispatch considering dependence of multiple wind farms using pair-copula. Applied Energy, 2018, 226, 967-978.	10.1	33
24	Decentralized optimization of coordinated electrical and thermal generations in hierarchical integrated energy systems considering competitive individuals. Energy, 2018, 158, 607-622.	8.8	29
25	Perturbation observer based adaptive passive control for damping improvement of multi-terminal voltage source converter-based high voltage direct current systems. Transactions of the Institute of Measurement and Control, 2017, 39, 1409-1420.	1.7	19
26	Identification of inrush currents in power transformers based on higher-order statistics. Electric Power Systems Research, 2017, 146, 161-169.	3.6	38
27	A Stackelberg game approach for multiple energies trading in integrated energy systems. Applied Energy, 2017, 200, 315-329.	10.1	132
28	Multi-objective meanâ€“varianceâ€“skewness model for nonconvex and stochastic optimal power flow considering wind power and load uncertainties. European Journal of Operational Research, 2017, 263, 719-732.	5.7	33
29	Wind-thermal power system dispatch using MLSAD model and GSOICLW algorithm. Knowledge-Based Systems, 2017, 116, 94-101.	7.1	17
30	Coordinated dispatch of electric power and district heating networks: A decentralized solution using optimality condition decomposition. Applied Energy, 2017, 206, 1508-1522.	10.1	78
31	Coordinated scheduling strategy to optimize conflicting benefits for daily operation of integrated electricity and gas networks. Applied Energy, 2017, 192, 370-381.	10.1	78
32	Detection and classification of power disturbances using half multi-resolution morphology gradient. , 2016, , .		5
33	Detection of power disturbances using Mathematical Morphology on small data windows. , 2016, , .		3
34	Optimal unit sizing for small-scale integrated energy systems using multi-objective interval optimization and evidential reasoning approach. Energy, 2016, 111, 933-946.	8.8	60
35	Nonlinear maximum power point tracking control and modal analysis of DFIG based wind turbine. International Journal of Electrical Power and Energy Systems, 2016, 74, 429-436.	5.5	247
36	Evolutionary predator and prey strategy for global optimization. Information Sciences, 2016, 327, 217-232.	6.9	20

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37	Multi-objective optimization and decision making for power dispatch of a large-scale integrated energy system with distributed DHCs embedded. Applied Energy, 2015, 154, 369-379.	10.1	93
38	Short-term natural gas demand prediction based on support vector regression with false neighbours filtered. Energy, 2015, 80, 428-436.	8.8	86
39	Reliability constrained unit commitment with combined hydro and thermal generation embedded using self-learning group search optimizer. Energy, 2015, 81, 245-254.	8.8	22
40	Group search optimizer with intraspecific competition and Lévy walk. Knowledge-Based Systems, 2015, 73, 44-51.	7.1	11
41	Modelling and operation optimization of an integrated energy based direct district water-heating system. Energy, 2014, 64, 375-388.	8.8	162
42	Application of switched system theory in power system stability. , 2014, , .		14
43	Mean-variance model for power system economic dispatch with wind power integrated. Energy, 2014, 72, 510-520.	8.8	86
44	Energy saving dispatch with complex constraints: Prohibited zones, valve point effect and carbon tax. International Journal of Electrical Power and Energy Systems, 2014, 63, 657-666.	5.5	17
45	Stochastic multi-objective optimization for economic-emission dispatch with uncertain wind power and distributed loads. Electric Power Systems Research, 2014, 116, 367-373.	3.6	40
46	Modelling and optimal operation of a small-scale integrated energy based district heating and cooling system. Energy, 2014, 73, 399-415.	8.8	92
47	Broadband noise suppression and feature identification of ECG waveforms using mathematical morphology and embedding theorem. Computer Methods and Programs in Biomedicine, 2013, 112, 466-480.	4.7	12
48	Detection of broken bars in induction motor based on multiple coupled circuit model with optimized parameters. , 2013, , .		0
49	Development of a novel asset management system for power transformers based on ontology. , 2013, , .		1
50	Function optimisation by learning automata. Information Sciences, 2013, 220, 379-398.	6.9	19
51	Partial discharge location using a hybrid transformer winding model with morphology-based noise removal. Electric Power Systems Research, 2013, 101, 9-16.	3.6	14
52	Current transformer saturation compensation based on a partial nonlinear model. Electric Power Systems Research, 2013, 97, 34-40.	3.6	10
53	Maximum Power Point Tracking for wind generator system using Sliding Mode Control. , 2013, , .		6
54	Optimal generation dispatch with renewable energy embedded using multiple objectives. International Journal of Electrical Power and Energy Systems, 2012, 42, 440-447.	5.5	29

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55	Evidence-based approach to power transmission risk assessment with component failure risk analysis. IET Generation, Transmission and Distribution, 2012, 6, 665.	2.5	15
56	Dynamic economic emission dispatch based on group search optimizer with multiple producers. Electric Power Systems Research, 2012, 86, 8-16.	3.6	110
57	Detection of power transformer winding deformation and variation of measurement connections using a hybrid winding model. Electric Power Systems Research, 2012, 87, 39-46.	3.6	32
58	Optimal estimation of harmonics in a dynamic environment using an adaptive bacterial swarming algorithm. IET Generation, Transmission and Distribution, 2011, 5, 609.	2.5	15
59	Paired-bacteria optimiser “A simple and fast algorithm. Information Processing Letters, 2011, 111, 809-813.	0.6	7
60	Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence. Power Systems, 2011, , .	0.5	45
61	The Group Search Optimizer and its Application to Truss Structure Design. Advances in Structural Engineering, 2010, 13, 43-51.	2.4	19
62	Transformer winding condition assessment using frequency response analysis and evidential reasoning. IET Electric Power Applications, 2010, 4, 198.	1.8	63
63	Bacterial foraging algorithm with varying population. BioSystems, 2010, 100, 185-197.	2.0	39
64	Improved modelling of power transformer winding using bacterial swarming algorithm and frequency response analysis. Electric Power Systems Research, 2010, 80, 1111-1120.	3.6	48
65	Breast cancer diagnosis using an artificial neural network trained by group search optimizer. Transactions of the Institute of Measurement and Control, 2009, 31, 517-531.	1.7	24
66	An improved group search optimizer for mechanical design optimization problems. Progress in Natural Science: Materials International, 2009, 19, 91-97.	4.4	41
67	Group Search Optimizer: An Optimization Algorithm Inspired by Animal Searching Behavior. IEEE Transactions on Evolutionary Computation, 2009, 13, 973-990.	10.0	625
68	EHV transmission line protection using a morphological lifting scheme. Electric Power Systems Research, 2009, 79, 1384-1392.	3.6	2
69	A Morphological Scheme for Inrush Identification in Transformer Protection. IEEE Transactions on Power Delivery, 2009, 24, 560-568.	4.3	49
70	Power Transformer Fault Classification Based on Dissolved Gas Analysis by Implementing Bootstrap and Genetic Programming. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 69-79.	2.9	120
71	Association Rule Mining-Based Dissolved Gas Analysis for Fault Diagnosis of Power Transformers. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 597-610.	2.9	107
72	Biologically inspired optimization: a review. Transactions of the Institute of Measurement and Control, 2009, 31, 495-515.	1.7	39

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73	Protective Relaying of Power Systems Using Mathematical Morphology. Power Systems, 2009, , .	0.5	108
74	A Hybrid Winding Model of Disc-Type Power Transformers for Frequency Response Analysis. IEEE Transactions on Power Delivery, 2009, 24, 730-739.	4.3	55
75	Detection of power disturbances using morphological gradient wavelet. Signal Processing, 2008, 88, 255-267.	3.7	23
76	Local prediction of non-linear time series using support vector regression. Pattern Recognition, 2008, 41, 1539-1547.	8.1	95
77	Morphological transform for removal of exponentially decaying DC-offset. Electronics Letters, 2008, 44, 595.	1.0	10
78	Bacterial Foraging Algorithm for Optimal Power Flow in Dynamic Environments. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2433-2442.	5.4	72
79	Optimal Harmonic Estimation Using A Particle Swarm Optimizer. IEEE Transactions on Power Delivery, 2008, 23, 1166-1174.	4.3	87
80	Morphological Lifting Scheme for Current Transformer Saturation Detection and Compensation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3349-3357.	5.4	67
81	Baseline normalisation of ECG signals using empirical mode decomposition and mathematical morphology. Electronics Letters, 2008, 44, 82.	1.0	30
82	Distributed optimal reactive power dispatch based on parallel particle swarm optimisation algorithm. , 2008, , .		1
83	The Group Search Optimizer and its Application on Truss Structure Design. , 2008, , .		9
84	A heuristic particle swarm optimizer for optimization of pin connected structures. Computers and Structures, 2007, 85, 340-349.	4.4	316
85	Optimal soft morphological filter for periodic noise removal using a particle swarm optimiser with passive congregation. Signal Processing, 2007, 87, 2799-2809.	3.7	35
86	Morphological undecimated wavelet decomposition for fault location on power transmission lines. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 1395-1402.	0.1	45
87	Simple and Efficient Soft Morphological Filter in Periodic Noise Reduction. , 2006, , .		16
88	A particle swarm optimizer with passive congregation. BioSystems, 2004, 78, 135-147.	2.0	320
89	An evidential reasoning approach to transformer condition assessments. IEEE Transactions on Power Delivery, 2004, 19, 1696-1703.	4.3	111
90	Mobile Agents for Remote Control of Distributed Systems. IEEE Transactions on Industrial Electronics, 2004, 51, 1142-1149.	7.9	31

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91	A simplified transformer thermal model based on thermal-electric analogy. IEEE Transactions on Power Delivery, 2004, 19, 1112-1119.	4.3	99
92	Decentralized Nonlinear Adaptive Control for Multimachine Power Systems Via High-Gain Perturbation Observer. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 2052-2059.	0.1	89
93	Identification of Pneumatic Cylinder Friction Parameters Using Genetic Algorithms. IEEE/ASME Transactions on Mechatronics, 2004, 9, 100-107.	5.8	46
94	Ultra-high-speed directional protection of transmission lines using mathematical morphology. IEEE Transactions on Power Delivery, 2003, 18, 1127-1133.	4.3	93
95	Online training of support vector classifier. Pattern Recognition, 2003, 36, 1913-1920.	8.1	89
96	Construction of power system load models and network equivalence using an evolutionary computation technique. International Journal of Electrical Power and Energy Systems, 2003, 25, 293-299.	5.5	18
97	Power system load modeling by learning based on system measurements. IEEE Transactions on Power Delivery, 2003, 18, 364-371.	4.3	43
98	Transient positional protection of transmission lines using complex wavelets analysis. IEEE Transactions on Power Delivery, 2003, 18, 705-710.	4.3	54
99	Pseudo-gradient based evolutionary programming. Electronics Letters, 2003, 39, 631.	1.0	22
100	An improved morphological approach to background normalization of ECG signals. IEEE Transactions on Biomedical Engineering, 2003, 50, 117-121.	4.2	30
101	Coal mill modeling by machine learning based on onsite measurements. IEEE Transactions on Energy Conversion, 2002, 17, 549-555.	5.2	45
102	Accurate fault location based on transients extraction using mathematical morphology. Electronics Letters, 2002, 38, 1583.	1.0	18
103	Effective identification of induction motor parameters based on fewer measurements. IEEE Transactions on Energy Conversion, 2002, 17, 55-60.	5.2	45
104	Morphological identification of transformer magnetising inrush current. Electronics Letters, 2002, 38, 437.	1.0	23
105	Equivalent heat circuit based power transformer thermal model. IET Electric Power Applications, 2002, 149, 87.	1.4	73
106	A pseudo top-hat mathematical morphological approach to edge detection in dark regions. Pattern Recognition, 2002, 35, 199-210.	8.1	93
107	An evolutionary programming approach to mixed-variable optimization problems. Applied Mathematical Modelling, 2000, 24, 931-942.	4.2	31
108	Influence of the transient process of TCSC and MOV on power system stability. IEEE Transactions on Power Systems, 2000, 15, 798-803.	6.5	22

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109	Optimal reactive power dispatch using an adaptive genetic algorithm. International Journal of Electrical Power and Energy Systems, 1998, 20, 563-569.	5.5	259
110	Real-time implementation of grey-scale morphological operators. Electronics Letters, 1997, 33, 1761.	1.0	22
111	A note on stability of analog neural networks with time delays. IEEE Transactions on Neural Networks, 1996, 7, 1533-1535.	4.2	113
112	Generator parameter identification using evolutionary programming. International Journal of Electrical Power and Energy Systems, 1995, 17, 417-423.	5.5	18
113	Learning coordinated control of power systems using interconnected learning automata. International Journal of Electrical Power and Energy Systems, 1995, 17, 91-99.	5.5	20
114	Power system optimal reactive power dispatch using evolutionary programming. IEEE Transactions on Power Systems, 1995, 10, 1243-1249.	6.5	273
115	Genetic search for optimal reactive power dispatch of power systems. , 1994, , .		17
116	A neural network regulator for turbogenerators. IEEE Transactions on Neural Networks, 1992, 3, 95-100.	4.2	143
117	An equivalent stochastic system model for control of chaotic dynamics. , 0, , .		5
118	Stochastic optimization of control parameters in genetic algorithms. , 0, , .		10
119	Evolutionary programming. , 0, , .		10
120	Fuzzy logic control of dynamic quadrature booster using reinforcement learning. , 0, , .		0
121	Measurement based power system load modeling using a population diversity genetic algorithm. , 0, , .		4
122	Co-ordinated nonlinear control of TCSC and SVC in power systems. , 0, , .		1
123	Population diversity based genetic algorithm for fuzzy control of synchronous generators. , 0, , .		1
124	Applying evolutionary programming to robust control systems design and analysis. , 0, , .		2
125	Parameter identification of an induction machine using genetic algorithms. , 0, , .		21
126	Accelerated trip of power transmission line based on biorthogonal wavelet analysis. , 0, , .		10

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127	Nonlinear coordinated control of multi-machine power systems. , 0, , .		3
128	Measurement of the road gradient using an inclinometer mounted on a moving vehicle. , 0, , .		18
129	A multi-agent based intelligent monitoring system for power transformers in distributed substations. , 0, , .		15
130	Decentralized nonlinear adaptive output-feedback controller based on high gain state and perturbation observer. , 0, , .		0
131	Improving the accuracy of single-ended transient fault locators using mathematical morphology. , 0, , .		15
132	Modelling equivalent thermal dynamics of power transformers using genetic algorithms. , 0, , .		0
133	Local prediction of chaotic time series based on Gaussian processes. , 0, , .		2
134	Mobile agents for data analysis in industrial automation systems. , 0, , .		11
135	Relative condition ranking of transformers using evidence theory. , 0, , .		2
136	An improved particle swarm optimization for optimal power flow. , 0, , .		51
137	Empirical Mode Decomposition For Power Quality Monitoring. , 0, , .		20
138	Fault Location in Power Transmission Lines Using a Second Generation Wavelet Analysis. , 0, , .		4
139	Power System Aggregate Load Area Modeling. , 0, , .		2
140	Agent-Based Personal Article Citation Assistant. , 0, , .		2
141	Condition Assessment of Power System Apparatuses Using Ontology Systems. , 0, , .		6
142	A Transformer Predictive Maintenance System Based On Agent-Oriented Programming. , 0, , .		1
143	Noise Reduction and Confidence Level Analysis in MMG-based Transient Fault Location. , 0, , .		2
144	Energy efficiency analysis and optimal control of servo pneumatic cylinders. , 0, , .		5

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145	A Particle Swarm Optimiser with Passive Congregation Approach To Thermal Modelling For Power Transformers. , 0, , .		9
146	Multi-agent based substation automation systems. , 0, , .		3
147	A Novel Group Search Optimizer Inspired by Animal Behavioural Ecology. , 0, , .		75
148	Bacterial Foraging Algorithm For Dynamic Environments. , 0, , .		53