

Qh Wu

List of Publications by Year in descending order

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148
papers

6,794
citations

66343

42
h-index

69250

77
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148
all docs

148
docs citations

148
times ranked

4517
citing authors

#	ARTICLE	IF	CITATIONS
1	Group Search Optimizer: An Optimization Algorithm Inspired by Animal Searching Behavior. IEEE Transactions on Evolutionary Computation, 2009, 13, 973-990.	10.0	625
2	A particle swarm optimizer with passive congregation. BioSystems, 2004, 78, 135-147.	2.0	320
3	A heuristic particle swarm optimizer for optimization of pin connected structures. Computers and Structures, 2007, 85, 340-349.	4.4	316
4	Power system optimal reactive power dispatch using evolutionary programming. IEEE Transactions on Power Systems, 1995, 10, 1243-1249.	6.5	273
5	Optimal reactive power dispatch using an adaptive genetic algorithm. International Journal of Electrical Power and Energy Systems, 1998, 20, 563-569.	5.5	259
6	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
7	Modelling and operation optimization of an integrated energy based direct district water-heating system. Energy, 2014, 64, 375-388.	8.8	162
8	A neural network regulator for turbogenerators. IEEE Transactions on Neural Networks, 1992, 3, 95-100.	4.2	143
9	A Stackelberg game approach for multiple energies trading in integrated energy systems. Applied Energy, 2017, 200, 315-329.	10.1	132
10	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
11	A note on stability of analog neural networks with time delays. IEEE Transactions on Neural Networks, 1996, 7, 1533-1535.	4.2	113
12	An evidential reasoning approach to transformer condition assessments. IEEE Transactions on Power Delivery, 2004, 19, 1696-1703.	4.3	111
13	Dynamic economic emission dispatch based on group search optimizer with multiple producers. Electric Power Systems Research, 2012, 86, 8-16.	3.6	110
14	Protective Relaying of Power Systems Using Mathematical Morphology. Power Systems, 2009, , .	0.5	108
15	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
16	A simplified transformer thermal model based on thermal-electric analogy. IEEE Transactions on Power Delivery, 2004, 19, 1112-1119.	4.3	99
17	Local prediction of non-linear time series using support vector regression. Pattern Recognition, 2008, 41, 1539-1547.	8.1	95
18	A pseudo top-hat mathematical morphological approach to edge detection in dark regions. Pattern Recognition, 2002, 35, 199-210.	8.1	93

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19	Ultra-high-speed directional protection of transmission lines using mathematical morphology. IEEE Transactions on Power Delivery, 2003, 18, 1127-1133.	4.3	93
20	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
21	Modelling and optimal operation of a small-scale integrated energy based district heating and cooling system. Energy, 2014, 73, 399-415.	8.8	92
22	Online training of support vector classifier. Pattern Recognition, 2003, 36, 1913-1920.	8.1	89
23	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
24	Optimal Harmonic Estimation Using A Particle Swarm Optimizer. IEEE Transactions on Power Delivery, 2008, 23, 1166-1174.	4.3	87
25	Mean-variance model for power system economic dispatch with wind power integrated. Energy, 2014, 72, 510-520.	8.8	86
26	Short-term natural gas demand prediction based on support vector regression with false neighbours filtered. Energy, 2015, 80, 428-436.	8.8	86
27	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
28	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
29	A Novel Group Search Optimizer Inspired by Animal Behavioural Ecology. , 0, , .		75
30	Equivalent heat circuit based power transformer thermal model. IET Electric Power Applications, 2002, 149, 87.	1.4	73
31	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
32	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
33	Transformer winding condition assessment using frequency response analysis and evidential reasoning. IET Electric Power Applications, 2010, 4, 198.	1.8	63
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	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
36	Transient positional protection of transmission lines using complex wavelets analysis. IEEE Transactions on Power Delivery, 2003, 18, 705-710.	4.3	54

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37	Bacterial Foraging Algorithm For Dynamic Environments. , 0, , .		53
38	An improved particle swarm optimization for optimal power flow. , 0, , .		51
39	A Morphological Scheme for Inrush Identification in Transformer Protection. IEEE Transactions on Power Delivery, 2009, 24, 560-568.	4.3	49
40	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
41	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
42	Identification of Pneumatic Cylinder Friction Parameters Using Genetic Algorithms. IEEE/ASME Transactions on Mechatronics, 2004, 9, 100-107.	5.8	46
43	Coal mill modeling by machine learning based on onsite measurements. IEEE Transactions on Energy Conversion, 2002, 17, 549-555.	5.2	45
44	Effective identification of induction motor parameters based on fewer measurements. IEEE Transactions on Energy Conversion, 2002, 17, 55-60.	5.2	45
45	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
46	Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence. Power Systems, 2011, , .	0.5	45
47	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
48	Multi-time scale dynamic analysis of integrated energy systems: An individual-based model. Applied Energy, 2019, 237, 848-861.	10.1	44
49	Power system load modeling by learning based on system measurements. IEEE Transactions on Power Delivery, 2003, 18, 364-371.	4.3	43
50	An improved group search optimizer for mechanical design optimization problems. Progress in Natural Science: Materials International, 2009, 19, 91-97.	4.4	41
51	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
52	Biologically inspired optimization: a review. Transactions of the Institute of Measurement and Control, 2009, 31, 495-515.	1.7	39
53	Bacterial foraging algorithm with varying population. BioSystems, 2010, 100, 185-197.	2.0	39
54	Identification of inrush currents in power transformers based on higher-order statistics. Electric Power Systems Research, 2017, 146, 161-169.	3.6	38

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55	Optimal soft morphological filter for periodic noise removal using a particle swarm optimiser with passive congregation. <i>Signal Processing</i> , 2007, 87, 2799-2809.	3.7	35
56	Multi-objective meanâ€“varianceâ€“skewness model for nonconvex and stochastic optimal power flow considering wind power and load uncertainties. <i>European Journal of Operational Research</i> , 2017, 263, 719-732.	5.7	33
57	Passive control design for multi-terminal VSC-HVDC systems via energy shaping. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 98, 496-508.	5.5	33
58	Risk constrained stochastic economic dispatch considering dependence of multiple wind farms using pair-copula. <i>Applied Energy</i> , 2018, 226, 967-978.	10.1	33
59	Detection of power transformer winding deformation and variation of measurement connections using a hybrid winding model. <i>Electric Power Systems Research</i> , 2012, 87, 39-46.	3.6	32
60	An evolutionary programming approach to mixed-variable optimization problems. <i>Applied Mathematical Modelling</i> , 2000, 24, 931-942.	4.2	31
61	Mobile Agents for Remote Control of Distributed Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2004, 51, 1142-1149.	7.9	31
62	An improved morphological approach to background normalization of ECG signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 117-121.	4.2	30
63	Baseline normalisation of ECG signals using empirical mode decomposition and mathematical morphology. <i>Electronics Letters</i> , 2008, 44, 82.	1.0	30
64	Multi-stage contingency-constrained co-planning for electricity-gas systems interconnected with gas-fired units and power-to-gas plants using iterative Benders decomposition. <i>Energy</i> , 2019, 180, 689-701.	8.8	30
65	Optimal generation dispatch with renewable energy embedded using multiple objectives. <i>International Journal of Electrical Power and Energy Systems</i> , 2012, 42, 440-447.	5.5	29
66	Decentralized optimization of coordinated electrical and thermal generations in hierarchical integrated energy systems considering competitive individuals. <i>Energy</i> , 2018, 158, 607-622.	8.8	29
67	Breast cancer diagnosis using an artificial neural network trained by group search optimizer. <i>Transactions of the Institute of Measurement and Control</i> , 2009, 31, 517-531.	1.7	24
68	Morphological identification of transformer magnetising inrush current. <i>Electronics Letters</i> , 2002, 38, 437.	1.0	23
69	Detection of power disturbances using morphological gradient wavelet. <i>Signal Processing</i> , 2008, 88, 255-267.	3.7	23
70	Real-time implementation of grey-scale morphological operators. <i>Electronics Letters</i> , 1997, 33, 1761.	1.0	22
71	Influence of the transient process of TCSC and MOV on power system stability. <i>IEEE Transactions on Power Systems</i> , 2000, 15, 798-803.	6.5	22
72	Pseudo-gradient based evolutionary programming. <i>Electronics Letters</i> , 2003, 39, 631.	1.0	22

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73	Reliability constrained unit commitment with combined hydro and thermal generation embedded using self-learning group search optimizer. <i>Energy</i> , 2015, 81, 245-254.	8.8	22
74	Parameter identification of an induction machine using genetic algorithms. , 0, , .		21
75	Learning coordinated control of power systems using interconnected learning automata. <i>International Journal of Electrical Power and Energy Systems</i> , 1995, 17, 91-99.	5.5	20
76	Empirical Mode Decomposition For Power Quality Monitoring. , 0, , .		20
77	Evolutionary predator and prey strategy for global optimization. <i>Information Sciences</i> , 2016, 327, 217-232.	6.9	20
78	The Group Search Optimizer and its Application to Truss Structure Design. <i>Advances in Structural Engineering</i> , 2010, 13, 43-51.	2.4	19
79	Function optimisation by learning automata. <i>Information Sciences</i> , 2013, 220, 379-398.	6.9	19
80	Perturbation observer based adaptive passive control for damping improvement of multi-terminal voltage source converter-based high voltage direct current systems. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 1409-1420.	1.7	19
81	Generator parameter identification using evolutionary programming. <i>International Journal of Electrical Power and Energy Systems</i> , 1995, 17, 417-423.	5.5	18
82	Measurement of the road gradient using an inclinometer mounted on a moving vehicle. , 0, , .		18
83	Accurate fault location based on transients extraction using mathematical morphology. <i>Electronics Letters</i> , 2002, 38, 1583.	1.0	18
84	Construction of power system load models and network equivalence using an evolutionary computation technique. <i>International Journal of Electrical Power and Energy Systems</i> , 2003, 25, 293-299.	5.5	18
85	Genetic search for optimal reactive power dispatch of power systems. , 1994, , .		17
86	Energy saving dispatch with complex constraints: Prohibited zones, valve point effect and carbon tax. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 63, 657-666.	5.5	17
87	Wind-thermal power system dispatch using MLSAD model and GSOICLW algorithm. <i>Knowledge-Based Systems</i> , 2017, 116, 94-101.	7.1	17
88	Fault-tolerant control of doubly-fed induction generators under voltage and current sensor faults. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 98, 48-61.	5.5	17
89	Simple and Efficient Soft Morphological Filter in Periodic Noise Reduction. , 2006, , .		16
90	A multi-agent based intelligent monitoring system for power transformers in distributed substations. , 0, , .		15

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91	Improving the accuracy of single-ended transient fault locators using mathematical morphology. , 0, , .		15
92	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
93	Evidence-based approach to power transmission risk assessment with component failure risk analysis. IET Generation, Transmission and Distribution, 2012, 6, 665.	2.5	15
94	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
95	Application of switched system theory in power system stability. , 2014, , .		14
96	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
97	Mobile agents for data analysis in industrial automation systems. , 0, , .		11
98	Group search optimizer with intraspecific competition and Lévy walk. Knowledge-Based Systems, 2015, 73, 44-51.	7.1	11
99	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
100	Stochastic optimization of control parameters in genetic algorithms. , 0, , .		10
101	Evolutionary programming. , 0, , .		10
102	Accelerated trip of power transmission line based on biorthogonal wavelet analysis. , 0, , .		10
103	Morphological transform for removal of exponentially decaying DC-offset. Electronics Letters, 2008, 44, 595.	1.0	10
104	Current transformer saturation compensation based on a partial nonlinear model. Electric Power Systems Research, 2013, 97, 34-40.	3.6	10
105	Multi-attribute decision analysis for optimal design of park-level integrated energy systems based on load characteristics. Energy, 2022, 254, 124379.	8.8	10
106	A Particle Swarm Optimiser with Passive Congregation Approach To Thermal Modelling For Power Transformers. , 0, , .		9
107	The Group Search Optimizer and its Application on Truss Structure Design. , 2008, , .		9
108	Order reduction method for high-order dynamic analysis of heterogeneous integrated energy systems. Applied Energy, 2022, 308, 118265.	10.1	9

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109	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
110	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
111	Paired-bacteria optimiser – A simple and fast algorithm. Information Processing Letters, 2011, 111, 809-813.	0.6	7
112	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
113	Condition Assessment of Power System Apparatuses Using Ontology Systems. , 0, , .		6
114	Maximum Power Point Tracking for wind generator system using Sliding Mode Control. , 2013, , .		6
115	A variant of Newton–Raphson method with third-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
116	An equivalent stochastic system model for control of chaotic dynamics. , 0, , .		5
117	Energy efficiency analysis and optimal control of servo pneumatic cylinders. , 0, , .		5
118	Detection and classification of power disturbances using half multi-resolution morphology gradient. , 2016, , .		5
119	Measurement based power system load modeling using a population diversity genetic algorithm. , 0, , .		4
120	Fault Location in Power Transmission Lines Using a Second Generation Wavelet Analysis. , 0, , .		4
121	Nonlinear coordinated control of multi-machine power systems. , 0, , .		3
122	Multi-agent based substation automation systems. , 0, , .		3
123	Detection of power disturbances using Mathematical Morphology on small data windows. , 2016, , .		3
124	Co-planning and Feasibility Assessment of an Integrated Energy System Embedded with Power-to-Gas Plants. , 2019, , .		3
125	Many-objective interactive optimization and decision making for distribution network expansion planning. Control Engineering Practice, 2021, 116, 104917.	5.5	3
126	Power Flow Analysis of Integrated Gas and Electricity Systems Using the Fast and Flexible Holomorphic Embedding Method. , 2020, , .		3

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127	Applying evolutionary programming to robust control systems design and analysis. , 0, , .		2
128	Local prediction of chaotic time series based on Gaussian processes. , 0, , .		2
129	Relative condition ranking of transformers using evidence theory. , 0, , .		2
130	Power System Aggregate Load Area Modeling. , 0, , .		2
131	Agent-Based Personal Article Citation Assistant. , 0, , .		2
132	Noise Reduction and Confidence Level Analysis in MMG-based Transient Fault Location. , 0, , .		2
133	EHV transmission line protection using a morphological lifting scheme. Electric Power Systems Research, 2009, 79, 1384-1392.	3.6	2
134	A Novel Load Clustering Method Based on Entropy Features Considering Longitudinal Characteristics. , 2018, , .		2
135	Two-level area load modelling for OPF of power system using reinforcement learning. IET Generation, Transmission and Distribution, 2019, 13, 4141-4149.	2.5	2
136	Probabilistic active distribution network equivalence with correlated uncertain injections for grid analysis. IET Renewable Power Generation, 2020, 14, 1964-1977.	3.1	2
137	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
138	Co-ordinated nonlinear control of TCSC and SVC in power systems. , 0, , .		1
139	Population diversity based genetic algorithm for fuzzy control of synchronous generators. , 0, , .		1
140	A Transformer Predictive Maintenance System Based On Agent-Oriented Programming. , 0, , .		1
141	Distributed optimal reactive power dispatch based on parallel particle swarm optimisation algorithm. , 2008, , .		1
142	Development of a novel asset management system for power transformers based on ontology. , 2013, , .		1
143	Investigation on Dynamic Stability of an Islanded Microgrid and Optimization for Its Controller Parameters. , 2018, , .		1
144	Distributionally Robust Economic Dispatch Considering the Uncertainty and Correlation of Wind Farm Outputs. , 2020, , .		1

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145	Fuzzy logic control of dynamic quadrature booster using reinforcement learning. , 0, , .		0
146	Decentralized nonlinear adaptive output-feedback controller based on high gain state and perturbation observer. , 0, , .		0
147	Modelling equivalent thermal dynamics of power transformers using genetic algorithms. , 0, , .		0
148	Detection of broken bars in induction motor based on multiple coupled circuit model with optimized parameters. , 2013, , .		0