

Chaoshun Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

3,180
citations

32
h-index

52
g-index

124
ext. papers

4,057
ext. citations

5.2
avg. IF

6.09
L-index

#	Paper	IF	Citations
119	Degradation Trend Prediction of Pumped Storage Unit Based on MIC-LGBM and VMD-GRU Combined Model. <i>Energies</i> , 2022 , 15, 605	3.1	1
118	Short-Term Wind Speed Interval Prediction using LUBE based Quasi-Recurrent Neural Network. <i>Journal of Physics: Conference Series</i> , 2022 , 2189, 012015	0.3	0
117	Health status assessment and prediction for pumped storage units using a novel health degradation index. <i>Mechanical Systems and Signal Processing</i> , 2022 , 171, 108910	7.8	0
116	Operational characteristics and parameter sensitivity analysis of hydropower unit damping under ultra-low frequency oscillations. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107689	5.1	3
115	A simple approach for short-term wind speed interval prediction based on independently recurrent neural networks and error probability distribution. <i>Energy</i> , 2022 , 238, 122012	7.9	9
114	Hopf Bifurcation and Parameter Sensitivity Analysis of a Doubly-Fed Variable-Speed Pumped Storage Unit. <i>Energies</i> , 2022 , 15, 204	3.1	1
113	Three-dimensional instantaneous orbit map for rotor-bearing system based on a novel multivariate complex variational mode decomposition algorithm. <i>Mechanical Systems and Signal Processing</i> , 2022 , 178, 109211	7.8	3
112	Nonlinear Modeling and Stability of a Doubly-Fed Variable Speed Pumped Storage Power Station with Surge Tank Considering Nonlinear Pump Turbine Characteristics. <i>Energies</i> , 2022 , 15, 4131	3.1	0
111	Influence of water diversion system topologies and operation scenarios on the damping characteristics of hydropower units under ultra-low frequency oscillations. <i>Energy</i> , 2021 , 122679	7.9	0
110	Nonlinear Model Predictive Control for Pumped Storage Plants Based on Online Sequential Extreme Learning Machine with Forgetting Factor. <i>Complexity</i> , 2021 , 2021, 1-19	1.6	0
109	EALSTM-QR: Interval wind-power prediction model based on numerical weather prediction and deep learning. <i>Energy</i> , 2021 , 220, 119692	7.9	11
108	Damping characteristics analysis of hydropower units under full operating conditions and control parameters: Accurate quantitative evaluation based on refined models. <i>Applied Energy</i> , 2021 , 292, 116881	10.7	6
107	A novel fault diagnosis procedure based on improved symplectic geometry mode decomposition and optimized SVM. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 173, 108644	4.6	16
106	A novel deep interval prediction model with adaptive interval construction strategy and automatic hyperparameter tuning for wind speed forecasting. <i>Energy</i> , 2021 , 216, 119179	7.9	11
105	A new lower and upper bound estimation model using gradient descend training method for wind speed interval prediction. <i>Wind Energy</i> , 2021 , 24, 290-304	3.4	4
104	A novel two-stage interval prediction method based on minimal gated memory network for clustered wind power forecasting. <i>Wind Energy</i> , 2021 , 24, 450-464	3.4	0
103	Temporal convolutional networks interval prediction model for wind speed forecasting. <i>Electric Power Systems Research</i> , 2021 , 191, 106865	3.5	26

102	A Hybrid Deep Interval Prediction Model for Wind Speed Forecasting. <i>IEEE Access</i> , 2021 , 9, 7323-7335	3.5	5
101	A Novel Efficient DLUBE Model Constructed by Error Interval Coefficients for Clustered Wind Power Prediction. <i>IEEE Access</i> , 2021 , 9, 61739-61751	3.5	4
100	Correlation Analysis and Augmentation of Samples for a Bidirectional Gate Recurrent Unit Network for the Remaining Useful Life Prediction of Bearings. <i>IEEE Sensors Journal</i> , 2021 , 21, 7989-8001	4	8
99	Deep balanced cascade forest: An novel fault diagnosis method for data imbalance. <i>ISA Transactions</i> , 2021 ,	5.5	3
98	Nonlinear modeling and multi-scale damping characteristics of hydro-turbine regulation systems under complex variable hydraulic and electrical network structures. <i>Applied Energy</i> , 2021 , 293, 116949	10.7	5
97	Cost advantage of adjustable-speed pumped storage unit for daily operation in distributed hybrid system. <i>Renewable Energy</i> , 2021 , 176, 1-10	8.1	6
96	Remaining Useful Life Estimation Combining Two-Step Maximal Information Coefficient and Temporal Convolutional Network With Attention Mechanism. <i>IEEE Access</i> , 2021 , 9, 16323-16336	3.5	5
95	Advantage analysis of variable-speed pumped storage units in renewable energy power grid: Mechanism of avoiding S-shaped region. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 120, 105976	5.1	10
94	A Disassembly Sequence Planning Method With Team-Based Genetic Algorithm for Equipment Maintenance in Hydropower Station. <i>IEEE Access</i> , 2020 , 8, 47538-47555	3.5	4
93	The short-term interval prediction of wind power using the deep learning model with gradient descend optimization. <i>Renewable Energy</i> , 2020 , 155, 197-211	8.1	24
92	A TB fuzzy model identification approach based on evolving MIT2-FCRM and WOS-ELM algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 92, 103653	7.2	5
91	Robust T-S Fuzzy Model Identification Approach Based on FCRM Algorithm and L1-Norm Loss Function. <i>IEEE Access</i> , 2020 , 8, 33792-33805	3.5	2
90	A Novel Wind Speed Interval Prediction Based on Error Prediction Method. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6806-6815	11.9	23
89	Instantaneous Feature Extraction and Time-Frequency Representation of Rotor Purified Orbit Based on Vold-Kalman Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7386-7397	5.2	5
88	A multi-objective optimization strategy for the optimal control scheme of pumped hydropower systems under successive load rejections. <i>Applied Energy</i> , 2020 , 261, 114474	10.7	17
87	Deep Learning Method Based on Gated Recurrent Unit and Variational Mode Decomposition for Short-Term Wind Power Interval Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 3814-3827	10.3	43
86	A modified variational mode decomposition method based on envelope nesting and multi-criteria evaluation. <i>Journal of Sound and Vibration</i> , 2020 , 468, 115099	3.9	16
85	Hybrid Bidirectional LSTM Model for Short-Term Wind Speed Interval Prediction. <i>IEEE Access</i> , 2020 , 8, 182283-182294	3.5	18

84	Comprehensive stochastic optimal scheduling in residential micro energy grid considering pumped-storage unit and demand response. <i>Journal of Energy Storage</i> , 2020 , 32, 101968	7.8	8
83	Transient stability of a hydro-turbine governing system with different tailrace tunnels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020 , 58, 60-69	1.9	3
82	Observer-Based Adaptive Output Feedback Fault Tolerant Control for Nonlinear Hydro-Turbine Governing System with State Delay. <i>Asian Journal of Control</i> , 2020 , 22, 192-203	1.7	6
81	Short-Term Wind Speed Interval Prediction Based on Ensemble GRU Model. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1370-1380	8.2	56
80	Network-constrained unit commitment with RE uncertainty and PHES by using a binary artificial sheep algorithm. <i>Energy</i> , 2019 , 189, 116203	7.9	7
79	Optimal successive start-up strategy of two hydraulic coupling pumped storage units based on multi-objective control. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 111, 398-410	5.1	14
78	Multiobjective Optimal Control for Hydraulic Turbine Governing System Based on an Improved MOGWO Algorithm. <i>Complexity</i> , 2019 , 2019, 1-14	1.6	5
77	Multiobjective Optimization of a Fractional-Order PID Controller for Pumped Turbine Governing System Using an Improved NSGA-III Algorithm under Multiworking Conditions. <i>Complexity</i> , 2019 , 2019, 1-18	1.6	13
76	Multi-objective optimization of the closure law of guide vanes for pumped storage units. <i>Renewable Energy</i> , 2019 , 139, 302-312	8.1	38
75	An Improved Mixed Integer Linear Programming Approach Based on Symmetry Diminishing for Unit Commitment of Hybrid Power System. <i>Energies</i> , 2019 , 12, 833	3.1	59
74	An Inter Type-2 FCR Algorithm Based TB Fuzzy Model for Short-Term Wind Power Interval Prediction. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4934-4943	11.9	25
73	Fault Diagnosis of Rolling Element Bearings with a Two-Step Scheme Based on Permutation Entropy and Random Forests. <i>Entropy</i> , 2019 , 21,	2.8	19
72	Research on the Predictive Optimal PID Plus Second Order Derivative Method for AGC of Power System with High Penetration of Photovoltaic and Wind Power. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 1075-1086	1.4	51
71	Multi-step short-term wind speed forecasting approach based on multi-scale dominant ingredient chaotic analysis, improved hybrid GWO-SCA optimization and ELM. <i>Energy Conversion and Management</i> , 2019 , 187, 356-377	10.6	100
70	. <i>IEEE Access</i> , 2019 , 7, 32714-32727	3.5	15
69	Stability and dynamic characteristics of the nonlinear coupling system of hydropower station and power grid. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 79, 104919	3.7	22
68	Short-Term Multi-Objective Optimal Operation of Reservoirs to Maximize the Benefits of Hydropower and Navigation. <i>Water (Switzerland)</i> , 2019 , 11, 1272	3	2
67	An Adaptive TakagiSugeno Fuzzy Model-Based Generalized Predictive Controller for Pumped-Storage Unit. <i>IEEE Access</i> , 2019 , 7, 103538-103555	3.5	9

66	A Hybrid Model For Predicting The Degradation Trend Of Hydropower Units Based On Deep Learning 2019 ,		2
65	Design of a Multi-Conditions Adaptive Fractional Order PID Controller for Pumped Turbine Governing System using Multiple Objectives Particle Swarm Optimization 2019 ,		3
64	Vibration trend measurement for a hydropower generator based on optimal variational mode decomposition and an LSSVM improved with chaotic sine cosine algorithm optimization. <i>Measurement Science and Technology</i> , 2019 , 30, 015012	2	42
63	Multi-objective complementary scheduling of hydro-thermal-RE power system via a multi-objective hybrid grey wolf optimizer. <i>Energy</i> , 2019 , 171, 241-255	7.9	50
62	A multi-objective artificial sheep algorithm. <i>Neural Computing and Applications</i> , 2019 , 31, 4049-4083	4.8	21
61	A hybrid model based on synchronous optimisation for multi-step short-term wind speed forecasting. <i>Applied Energy</i> , 2018 , 215, 131-144	10.7	100
60	Load Frequency Control of a Novel Renewable Energy Integrated Micro-Grid Containing Pumped Hydropower Energy Storage. <i>IEEE Access</i> , 2018 , 6, 29067-29077	3.5	71
59	An evolving TB fuzzy model identification approach based on a special membership function and its application on pump-turbine governing system. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 69, 93-103	7.2	27
58	A TB Fuzzy Model Identification Approach Based on a Modified Inter Type-2 FRCM Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1104-1113	8.3	40
57	An improved hybrid backtracking search algorithm based TB fuzzy model and its implementation to hydroelectric generating units. <i>Neurocomputing</i> , 2018 , 275, 2066-2079	5.4	15
56	A Real-Time Accurate Model and Its Predictive Fuzzy PID Controller for Pumped Storage Unit via Error Compensation. <i>Energies</i> , 2018 , 11, 35	3.1	13
55	An Integrated Start-Up Method for Pumped Storage Units Based on a Novel Artificial Sheep Algorithm. <i>Energies</i> , 2018 , 11, 151	3.1	29
54	Multi-Objective Optimization of Start-up Strategy for Pumped Storage Units. <i>Energies</i> , 2018 , 11, 1141	3.1	13
53	Shaft mis-alignment induced vibration of a hydraulic turbine generating system considering parametric uncertainties. <i>Journal of Sound and Vibration</i> , 2018 , 435, 74-90	3.9	21
52	Modeling and Synchronous Optimization of Pump Turbine Governing System Using Sparse Robust Least Squares Support Vector Machine and Hybrid Backtracking Search Algorithm. <i>Energies</i> , 2018 , 11, 3108	3.1	11
51	A Hybrid Fault Diagnosis Approach for Rotating Machinery with the Fusion of Entropy-Based Feature Extraction and SVM Optimized by a Chaos Quantum Sine Cosine Algorithm. <i>Entropy</i> , 2018 , 20,	2.8	17
50	A Mixed-Strategy-Based Whale Optimization Algorithm for Parameter Identification of Hydraulic Turbine Governing Systems with a Delayed Water Hammer Effect. <i>Energies</i> , 2018 , 11, 2367	3.1	8
49	Adaptive condition predictive-fuzzy PID optimal control of start-up process for pumped storage unit at low head area. <i>Energy Conversion and Management</i> , 2018 , 177, 592-604	10.6	48

48	Envelope demodulation based on variational mode decomposition for gear fault diagnosis. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017 , 231, 864-870	1.5	12
47	Design of a fractional-order PID controller for a pumped storage unit using a gravitational search algorithm based on the Cauchy and Gaussian mutation. <i>Information Sciences</i> , 2017 , 396, 162-181	7.7	106
46	A compound structure of ELM based on feature selection and parameter optimization using hybrid backtracking search algorithm for wind speed forecasting. <i>Energy Conversion and Management</i> , 2017 , 143, 360-376	10.6	163
45	Study on unit commitment problem considering pumped storage and renewable energy via a novel binary artificial sheep algorithm. <i>Applied Energy</i> , 2017 , 187, 612-626	10.7	76
44	A parameter adaptive identification method for a pumped storage hydro unit regulation system model using an improved gravitational search algorithm. <i>Simulation</i> , 2017 , 93, 679-694	1.2	7
43	A nonlinear generalized predictive control for pumped storage unit. <i>Renewable Energy</i> , 2017 , 114, 945-989		45
42	Design of a fuzzy-PID controller for a nonlinear hydraulic turbine governing system by using a novel gravitational search algorithm based on Cauchy mutation and mass weighting. <i>Applied Soft Computing Journal</i> , 2017 , 52, 290-305	7.5	49
41	TB Fuzzy Model Identification Based on a Novel Hyperplane-Shaped Membership Function. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1364-1370	8.3	27
40	Dominant low-frequency oscillation modes tracking and parameter optimisation of electrical power system using modified Prony method. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 4358-4364	2.5	14
39	Electromagnetic Vibration Simulation of a 250-MW Large Hydropower Generator with Rotor Eccentricity and Rotor Deformation. <i>Energies</i> , 2017 , 10, 2155	3.1	11
38	Precise equivalent model of small hydro generator cluster and its parameter identification using improved Grey Wolf optimiser. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2108-2117	2.5	10
37	Compound feature selection and parameter optimization of ELM for fault diagnosis of rolling element bearings. <i>ISA Transactions</i> , 2016 , 65, 556-566	5.5	73
36	Demodulation analysis based on adaptive local iterative filtering for bearing fault diagnosis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 94, 554-560	4.6	26
35	Parameter identification of a nonlinear model of hydraulic turbine governing system with an elastic water hammer based on a modified gravitational search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 50, 177-191	7.2	36
34	An adaptively fast fuzzy fractional order PID control for pumped storage hydro unit using improved gravitational search algorithm. <i>Energy Conversion and Management</i> , 2016 , 111, 67-78	10.6	89
33	Application of adaptive local iterative filtering and approximate entropy to vibration signal denoising of hydropower unit. <i>Journal of Vibroengineering</i> , 2016 , 18, 4299-4311	0.5	5
32	Design of a multi-mode intelligent model predictive control strategy for hydroelectric generating unit. <i>Neurocomputing</i> , 2016 , 207, 287-299	5.4	19
31	A mixed-strategy based gravitational search algorithm for parameter identification of hydraulic turbine governing system. <i>Knowledge-Based Systems</i> , 2016 , 109, 218-237	7.3	34

30	A novel method for fault diagnosis of hydro generator based on NOFRFs. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 71, 60-67	5.1	18
29	An adaptively fast ensemble empirical mode decomposition method and its applications to rolling element bearing fault diagnosis. <i>Mechanical Systems and Signal Processing</i> , 2015 , 62-63, 444-459	7.8	92
28	A chaos embedded GSA-SVM hybrid system for classification. <i>Neural Computing and Applications</i> , 2015 , 26, 713-721	4.8	34
27	Semi-supervised weighted kernel clustering based on gravitational search for fault diagnosis. <i>ISA Transactions</i> , 2014 , 53, 1534-43	5.5	38
26	A novel KICA-PCA fault detection model for condition process of hydroelectric generating unit. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 58, 197-206	4.6	29
25	Multifault Diagnosis for Rolling Element Bearings Based on Intrinsic Mode Permutation Entropy and Ensemble Optimal Extreme Learning Machine. <i>Advances in Mechanical Engineering</i> , 2014 , 6, 803919	1.2	11
24	Multi-fault classification based on the two-stage evolutionary extreme learning machine and improved artificial bee colony algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 1797-1807	1.3	6
23	Piecewise function based gravitational search algorithm and its application on parameter identification of AVR system. <i>Neurocomputing</i> , 2014 , 124, 139-148	5.4	37
22	Hydraulic turbine governing system identification using TB fuzzy model optimized by chaotic gravitational search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 2073-2082	7.2	59
21	A novel chaotic particle swarm optimization based fuzzy clustering algorithm. <i>Neurocomputing</i> , 2012 , 83, 98-109	5.4	80
20	TB Fuzzy Model Identification With a Gravitational Search-Based Hyperplane Clustering Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 305-317	8.3	115
19	Parameters identification of chaotic system by chaotic gravitational search algorithm. <i>Chaos, Solitons and Fractals</i> , 2012 , 45, 539-547	9.3	68
18	Multi-class support vector machine optimized by inter-cluster distance and self-adaptive differential evolution. <i>Applied Mathematics and Computation</i> , 2012 , 218, 4973-4987	2.7	21
17	Parameters identification of nonlinear state space model of synchronous generator. <i>Engineering Applications of Artificial Intelligence</i> , 2011 , 24, 1227-1237	7.2	28
16	Fault diagnosis based on pulse coupled neural network and probability neural network. <i>Expert Systems With Applications</i> , 2011 , 38, 14307-14307	7.8	13
15	Parameters identification of hydraulic turbine governing system using improved gravitational search algorithm. <i>Energy Conversion and Management</i> , 2011 , 52, 374-381	10.6	205
14	Identification of hydraulic turbine governor system parameters based on Bacterial Foraging Optimization Algorithm 2010 ,		10
13	A new TB fuzzy-modeling approach to identify a boiler-turbine system. <i>Expert Systems With Applications</i> , 2010 , 37, 2214-2221	7.8	77

12	Dynamic response of a rub-impact rotor system under axial thrust. <i>Archive of Applied Mechanics</i> , 2009 , 79, 1009-1018	2.2	23
11	TB fuzzy model identification based on a novel fuzzy c-regression model clustering algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 646-653	7.2	75
10	Mechanic signal analysis based on the Haar-type orthogonal matrix. <i>Expert Systems With Applications</i> , 2009 , 36, 9674-9677	7.8	7
9	Fault diagnosis based on Walsh transform and rough sets. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 1313-1326	7.8	32
8	Improved algorithm about NSFOT. <i>Applied Mathematics and Computation</i> , 2009 , 215, 881-888	2.7	2
7	Research on fuzzy-PID excitation controller of synchronous generator based on improved PSO algorithm 2009 ,		2
6	Adaptive Hybrid Differential Evolution Algorithm and Its Application in Fuzzy Clustering. <i>Lecture Notes in Computer Science</i> , 2009 , 664-673	0.9	
5	Fuzzy Neural Network Based on Improved T-S Model and Its Application. <i>Lecture Notes in Computer Science</i> , 2009 , 155-164	0.9	
4	T-S Fuzzy Model Identification Based on Chaos Optimization. <i>Lecture Notes in Computer Science</i> , 2008 , 786-795	0.9	3
3	A Precise Chaotic Particle Swarm Optimization Algorithm based on Improved Tent Map 2008 ,		14
2	Vibration Fault Diagnosis for Hydraulic Generator Units with Pattern Recognition and Cluster Analysis 2008 ,		1
1	A Fuzzy Cluster Algorithm Based on Mutative Scale Chaos Optimization. <i>Lecture Notes in Computer Science</i> , 2008 , 259-267	0.9	1