Hui Qin

List of Publications by Year
in descending order

73 papers	2,256 citations	186209 28 h-index	233338 45 g-index
73 all docs	73 docs citations	73 times ranked	1513 citing authors

#	Article	IF	Citations
1	Wind speed prediction method using Shared Weight Long Short-Term Memory Network and Gaussian Process Regression. Applied Energy, 2019, 247, 270-284.	5.1	180
2	Probabilistic spatiotemporal wind speed forecasting based on a variational Bayesian deep learning model. Applied Energy, 2020, 260, 114259.	5.1	124
3	Study on unit commitment problem considering pumped storage and renewable energy via a novel binary artificial sheep algorithm. Applied Energy, 2017, 187, 612-626.	5.1	99
4	Multi-stage progressive optimality algorithm and its application in energy storage operation chart optimization of cascade reservoirs. Energy, 2018, 148, 309-323.	4.5	96
5	Multi-objective Cultured Differential Evolution for Generating Optimal Trade-offs in Reservoir Flood Control Operation. Water Resources Management, 2010, 24, 2611-2632.	1.9	86
6	Ensemble spatiotemporal forecasting of solar irradiation using variational Bayesian convolutional gate recurrent unit network. Applied Energy, 2019, 253, 113596.	5.1	84
7	Wind speed forecasting based on Quantile Regression Minimal Gated Memory Network and Kernel Density Estimation. Energy Conversion and Management, 2019, 196, 1395-1409.	4.4	83
8	Long Short-Term Memory Network based on Neighborhood Gates for processing complex causality in wind speed prediction. Energy Conversion and Management, 2019, 192, 37-51.	4.4	79
9	Multi-objective differential evolution with adaptive Cauchy mutation for short-term multi-objective optimal hydro-thermal scheduling. Energy Conversion and Management, 2010, 51, 788-794.	4.4	71
10	Monthly streamflow forecasting based on hidden Markov model and Gaussian Mixture Regression. Journal of Hydrology, 2018, 561, 146-159.	2.3	71
11	Comparison of support vector regression and extreme gradient boosting for decomposition-based data-driven 10-day streamflow forecasting. Journal of Hydrology, 2020, 582, 124293.	2.3	70
12	Wind speed prediction method based on Empirical Wavelet Transform and New Cell Update Long Short-Term Memory network. Energy Conversion and Management, 2019, 196, 779-792.	4.4	63
13	Hierarchical Flood Operation Rules Optimization Using Multi-Objective Cultured Evolutionary Algorithm Based on Decomposition. Water Resources Management, 2019, 33, 337-354.	1.9	55
14	Deriving reservoir operation rule based on Bayesian deep learning method considering multiple uncertainties. Journal of Hydrology, 2019, 579, 124207.	2.3	54
15	Novel Multiobjective Shuffled Frog Leaping Algorithm with Application to Reservoir Flood Control Operation. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 217-226.	1.3	52
16	A data-driven model based on Fourier transform and support vector regression for monthly reservoir inflow forecasting. Journal of Hydro-Environment Research, 2018, 18, 12-24.	1.0	52
17	Short-term optimal operation of wind-solar-hydro hybrid system considering uncertainties. Energy Conversion and Management, 2020, 205, 112405.	4.4	52
18	Global Increases in Compound Flood–Hot Extreme Hazards Under Climate Warming. Geophysical Research Letters, 2022, 49, .	1.5	48

#	Article	IF	Citations
19	Deriving joint optimal refill rules for cascade reservoirs with multi-objective evaluation. Journal of Hydrology, 2015, 524, 166-181.	2.3	45
20	Parallel Multi-Objective Genetic Algorithm for Short-Term Economic Environmental Hydrothermal Scheduling. Energies, 2017, 10, 163.	1.6	45
21	Optimal operation of multi-reservoir hydropower systems using enhanced comprehensive learning particle swarm optimization. Journal of Hydro-Environment Research, 2016, 10, 50-63.	1.0	43
22	Improved Multi-objective Moth-flame Optimization Algorithm based on R-domination for cascade reservoirs operation. Journal of Hydrology, 2020, 581, 124431.	2.3	40
23	Two Dimension Reduction Methods for Multi-Dimensional Dynamic Programming and Its Application in Cascade Reservoirs Operation Optimization. Water (Switzerland), 2017, 9, 634.	1.2	38
24	Directed graph deep neural network for multi-step daily streamflow forecasting. Journal of Hydrology, 2022, 607, 127515.	2.3	38
25	Short-term runoff prediction using deep learning multi-dimensional ensemble method. Journal of Hydrology, 2022, 609, 127762.	2.3	38
26	Optimization for Hydro-Photovoltaic-Wind Power Generation System Based on Modified Version of Multi-Objective Whale Optimization Algorithm. Energy Procedia, 2019, 158, 6208-6216.	1.8	36
27	A region search evolutionary algorithm for many-objective optimization. Information Sciences, 2019, 488, 19-40.	4.0	29
28	Dynamic programming with successive approximation and relaxation strategy for long-term joint power generation scheduling of large-scale hydropower station group. Energy, 2021, 222, 119960.	4.5	29
29	Monthly Operation Optimization of Cascade Hydropower Reservoirs with Dynamic Programming and Latin Hypercube Sampling for Dimensionality Reduction. Water Resources Management, 2020, 34, 2029-2041.	1.9	28
30	Middle and Long-Term Runoff Probabilistic Forecasting Based on Gaussian Mixture Regression. Water Resources Management, 2019, 33, 1785-1799.	1.9	24
31	Operation rule extraction based on deep learning model with attention mechanism for wind-solar-hydro hybrid system under multiple uncertainties. Renewable Energy, 2021, 170, 92-106.	4.3	23
32	Long-term joint scheduling of hydropower station group in the upper reaches of the Yangtze River using partition parameter adaptation differential evolution. Engineering Applications of Artificial Intelligence, 2019, 81, 1-13.	4.3	21
33	Multi-Step Ahead Short-Term Load Forecasting Using Hybrid Feature Selection and Improved Long Short-Term Memory Network. Energies, 2020, 13, 4121.	1.6	21
34	Research and application of key technologies in drawing energy storage operation chart by discriminant coefficient method. Energy, 2016, 114, 774-786.	4.5	20
35	Multiobjective Reservoir Operation Optimization Using Improved Multiobjective Dynamic Programming Based on Reference Lines. IEEE Access, 2019, 7, 103473-103484.	2.6	17
36	Solar Radiation Intensity Probabilistic Forecasting Based on K-Means Time Series Clustering and Gaussian Process Regression. IEEE Access, 2021, 9, 89079-89092.	2.6	17

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37	Hydrological probabilistic forecasting based on deep learning and Bayesian optimization algorithm. Hydrology Research, 2021, 52, 927-943.	1.1	16
38	Deriving Operating Rules of Hydropower Reservoirs Using Gaussian Process Regression. IEEE Access, 2019, 7, 158170-158182.	2.6	15
39	Interval prediction method based on Long-Short Term Memory networks for system integrated of hydro, wind and solar power. Energy Procedia, 2019, 158, 6176-6182.	1.8	15
40	Fast Comprehensive Flood Risk Assessment Based on Game Theory and Cloud Model Under Parallel Computation (P-GT-CM). Water Resources Management, 2020, 34, 1625-1648.	1.9	15
41	The Chaos-Based Shuffled Frog Leaping Algorithm and Its Application. , 2008, , .		14
42	Study on guaranteed output constraints in the long term joint optimal scheduling for the hydropower station group. Energy, 2019, 185, 1210-1224.	4.5	13
43	Multi-Objective Optimal Scheduling Model of Dynamic Control of Flood Limit Water Level for Cascade Reservoirs. Water (Switzerland), 2019, 11, 1836.	1.2	13
44	Downstream Water Level Prediction of Reservoir based on Convolutional Neural Network and Long Short-Term Memory Network. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	13
45	Probabilistic spatiotemporal solar irradiation forecasting using deep ensembles convolutional shared weight long short-term memory network. Applied Energy, 2021, 300, 117379.	5.1	13
46	Multi-Objective Sustainable Operation of the Three Gorges Cascaded Hydropower System Using Multi-Swarm Comprehensive Learning Particle Swarm Optimization. Energies, 2016, 9, 438.	1.6	12
47	Flood Classification Based on a Fuzzy Clustering Iteration Model with Combined Weight and an Immune Grey Wolf Optimizer Algorithm. Water (Switzerland), 2019, 11, 80.	1.2	12
48	Non-dominated sorting culture differential evolution algorithm for multi-objective optimal operation of Wind- Solar-Hydro complementary power generation system. Global Energy Interconnection, 2019, 2, 368-374.	1.4	11
49	Risk Assessment and Decision-Making Based on Mean-CVaR-Entropy for Flood Control Operation of Large Scale Reservoirs. Water (Switzerland), 2019, 11, 649.	1.2	10
50	Identifying Efficient Operating Rules for Hydropower Reservoirs Using System Dynamics Approach—A Case Study of Three Gorges Reservoir, China. Water (Switzerland), 2019, 11, 2448.	1.2	10
51	Variational Bayesian Neural Network for Ensemble Flood Forecasting. Water (Switzerland), 2020, 12, 2740.	1.2	9
52	A novel multi-objective electromagnetism-like mechanism algorithm with applications in reservoir flood control operation. Water Science and Technology, 2014, 69, 1181-1190.	1.2	8
53	Medium-Term Hydro Generation Scheduling (MTHGS) with Chance Constrained Model (CCM) and Dynamic Control Model (DCM). Water Resources Management, 2017, 31, 3543-3555.	1.9	8
54	Two-Dimensional Finite-Volume Eulerian-Lagrangian Method on Unstructured Grid for Solving Advective Transport of Passive Scalars in Free-Surface Flows. Journal of Hydraulic Engineering, 2017, 143, .	0.7	8

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55	Short-Term Multi-Objective Optimal Operation of Reservoirs to Maximize the Benefits of Hydropower and Navigation. Water (Switzerland), 2019, 11, 1272.	1.2	8
56	Effect Analysis of Operation Stage Difference on Energy Storage Operation Chart of Cascade Reservoirs. Water Resources Management, 2019, 33, 1349-1365.	1.9	8
57	Causal Inference of Optimal Control Water Level and Inflow in Reservoir Optimal Operation Using Fuzzy Cognitive Map. Water (Switzerland), 2019, 11, 2147.	1.2	7
58	Multi-objective optimal water supply scheduling model for an inter-basin water transfer system: the South-to-North Water Diversion Middle Route Project, China. Water Science and Technology: Water Supply, 2020, 20, 550-564.	1.0	6
59	Runoff Probability Prediction Model Based on Natural Gradient Boosting with Tree-Structured Parzen Estimator Optimization. Water (Switzerland), 2022, 14, 545.	1.2	6
60	Operation Rules Optimization of Cascade Reservoirs Based on Multi-Objective Tangent Algorithm. IEEE Access, 2019, 7, 161949-161962.	2.6	5
61	Flood Disaster Classification Based on Fuzzy Clustering Iterative Model and Modified Differential Evolution Algorithm. , 2009, , .		4
62	Analysis of an Ecological Flow Regime during the Ctenopharyngodon Idella Spawning Period Based on Reservoir Operations. Water (Switzerland), 2019, 11, 2034.	1.2	4
63	Enhanced Strength Pareto Differential Evolution (ESPDE): An Extension of Differential Evolution for Multi-objective Optimization. , 2008, , .		3
64	Adaptive Niche Multi-objective Particle Swarm Optimization Algorithm. , 2008, , .		3
65	Long-term Optimal Scheduling of Cascade Hydropower Stations Using Fuzzy Multi-objective Dynamic Programming Approach. , 2011, , .		3
66	A Procedure for Combining Improved Correlated Sampling Methods and a Resampling Strategy to Generate a Multi-Site Conditioned Streamflow Process. Water Resources Management, 2021, 35, 1011-1027.	1.9	3
67	Assessing Variations in Water Use Efficiency and Linkages with Land-Use Changes Using Three Different Data Sources: A Case Study of the Yellow River, China. Remote Sensing, 2022, 14, 1065.	1.8	3
68	Electricity Price Direct Discount Model of Power Supply Chain Based on Pareto Optimization. , 2009, , .		2
69	Region search evolutionary algorithm with constraint handling for multi-objective short-term wind-solar-hydro-thermal scheduling. E3S Web of Conferences, 2021, 233, 01018.	0.2	2
70	Water Balance Calculation Based on Hydrodynamics in Reservoir Operation. Water (Switzerland), 2022, 14, 2001.	1.2	2
71	The Compound Consistency Induced Ordered Weighted Averaging operator and its application to reservoir operation. , 2010, , .		1
72	Decision-Making for Ecological Reservoir Operation Based on Lamda Fuzzy Measures. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
73	Consider the risk constraints of hydro-thermal power generation in real-time strategy of control. IEEE Access, 2021, , 1-1.	2.6	0