

Bin Xu

List of Publications by Year in descending order

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52
papers

1,124
citations

361045

20
h-index

433756

31
g-index

52
all docs

52
docs citations

52
times ranked

829
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying long-term effects of using hydropower to complement wind power uncertainty through stochastic programming. <i>Applied Energy</i> , 2019, 253, 113535.	5.1	96
2	Integrated flood risk assessment and zonation method: a case study in Huaihe River basin, China. <i>Natural Hazards</i> , 2015, 78, 635-651.	1.6	73
3	Risk analysis for real-time flood control operation of a multi-reservoir system using a dynamic Bayesian network. <i>Environmental Modelling and Software</i> , 2019, 111, 409-420.	1.9	61
4	Short-term stochastic optimization of a hydro-wind-photovoltaic hybrid system under multiple uncertainties. <i>Energy Conversion and Management</i> , 2020, 214, 112902.	4.4	59
5	Scenario tree reduction in stochastic programming with recourse for hydropower operations. <i>Water Resources Research</i> , 2015, 51, 6359-6380.	1.7	58
6	A multi-criteria decision-making model dealing with correlation among criteria for reservoir flood control operation. <i>Journal of Hydroinformatics</i> , 2016, 18, 531-543.	1.1	39
7	A multiobjective short-term optimal operation model for a cascade system of reservoirs considering the impact on long-term energy production. <i>Water Resources Research</i> , 2015, 51, 3353-3369.	1.7	38
8	Multi-objective optimization scheduling of wind-photovoltaic-hydropower systems considering riverine ecosystem. <i>Energy Conversion and Management</i> , 2019, 196, 32-43.	4.4	37
9	A multi-model integration method for monthly streamflow prediction: modified stacking ensemble strategy. <i>Journal of Hydroinformatics</i> , 2020, 22, 310-326.	1.1	36
10	Decomposition-coordination model of reservoir group and flood storage basin for real-time flood control operation. <i>Hydrology Research</i> , 2015, 46, 11-25.	1.1	33
11	Stochastic Programming with a Joint Chance Constraint Model for Reservoir Refill Operation Considering Flood Risk. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	33
12	A coordinated optimization framework for long-term complementary operation of a large-scale hydro-photovoltaic hybrid system: Nonlinear modeling, multi-objective optimization and robust decision-making. <i>Energy Conversion and Management</i> , 2020, 226, 113543.	4.4	33
13	Water Resources Allocation in Transboundary River Based on Asymmetric Nash-Harsanyi Leader-Follower Game Model. <i>Water (Switzerland)</i> , 2018, 10, 270.	1.2	32
14	Risk Analysis for Real-Time Flood Control Operation of a Reservoir. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	1.3	28
15	Changing of flood risk due to climate and development in Huaihe River basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 935-948.	1.9	28
16	Risk analysis for reservoir flood control operation considering two-dimensional uncertainties based on Bayesian network. <i>Journal of Hydrology</i> , 2020, 589, 125353.	2.3	26
17	A risk decision model of the contract generation for hydropower generation companies in electricity markets. <i>Electric Power Systems Research</i> , 2013, 95, 90-98.	2.1	24
18	Multiobjective stochastic programming with recourses for real-time flood water conservation of a multireservoir system under uncertain forecasts. <i>Journal of Hydrology</i> , 2020, 590, 125513.	2.3	23

#	ARTICLE	IF	CITATIONS
19	Optimal Hedging Rules for Water Supply Reservoir Operations under Forecast Uncertainty and Conditional Value-at-Risk Criterion. <i>Water (Switzerland)</i> , 2017, 9, 568.	1.2	22
20	Robust multiobjective reservoir operation and risk decision-making model for real-time flood control coping with forecast uncertainty. <i>Journal of Hydrology</i> , 2022, 605, 127334.	2.3	22
21	Spark-based parallel dynamic programming and particle swarm optimization via cloud computing for a large-scale reservoir system. <i>Journal of Hydrology</i> , 2021, 598, 126444.	2.3	20
22	Dynamic and Intelligent Modeling Methods for Joint Operation of a Flood Control System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	18
23	Dynamic long-term streamflow probabilistic forecasting model for a multisite system considering real-time forecast updating through spatio-temporal dependent error correction. <i>Journal of Hydrology</i> , 2021, 601, 126666.	2.3	18
24	Hydrological time series forecasting via signal decomposition and twin support vector machine using cooperation search algorithm for parameter identification. <i>Journal of Hydrology</i> , 2022, 612, 128213.	2.3	18
25	Stochastic multi-criteria decision making based on stepwise weight information for real-time reservoir operation. <i>Journal of Cleaner Production</i> , 2020, 257, 120554.	4.6	17
26	Integrated real-time flood risk identification, analysis, and diagnosis model framework for a multireservoir system considering temporally and spatially dependent forecast uncertainties. <i>Journal of Hydrology</i> , 2021, 600, 126679.	2.3	17
27	A Multiobjective Stochastic Programming Model for Hydropower Hedging Operations under Inexact Information. <i>Water Resources Management</i> , 2017, 31, 4649-4667.	1.9	16
28	Evaluation of global climate model on performances of precipitation simulation and prediction in the Huaihe River basin. <i>Theoretical and Applied Climatology</i> , 2018, 133, 191-204.	1.3	16
29	Dynamic Feasible Region Genetic Algorithm for Optimal Operation of a Multi-Reservoir System. <i>Energies</i> , 2012, 5, 2894-2910.	1.6	15
30	Risk analysis for the downstream control section in the real-time flood control operation of a reservoir. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1303-1315.	1.9	15
31	Two-Phase Risk Hedging Rules for Informing Conservation of Flood Resources in Reservoir Operation Considering Inflow Forecast Uncertainty. <i>Water Resources Management</i> , 2020, 34, 2731-2752.	1.9	14
32	Stochastic programming for floodwater utilization of a complex multi-reservoir system considering risk constraints. <i>Journal of Hydrology</i> , 2021, 599, 126388.	2.3	14
33	Water Resources Allocation in Transboundary River Basins Based on a Game Model Considering Inflow Forecasting Errors. <i>Water Resources Management</i> , 2019, 33, 2809-2825.	1.9	12
34	Bargaining Model of Synergistic Revenue Allocation for the Joint Operations of a Multi-Stakeholder Cascade Reservoir System. <i>Water Resources Management</i> , 2018, 32, 4625-4642.	1.9	11
35	Scenario-Based Multiobjective Robust Optimization and Decision-Making Framework for Optimal Operation of a Cascade Hydropower System Under Multiple Uncertainties. <i>Water Resources Research</i> , 2022, 58, .	1.7	11
36	Multidimensional Parallel Dynamic Programming Algorithm Based on Spark for Large-Scale Hydropower Systems. <i>Water Resources Management</i> , 2020, 34, 3427-3444.	1.9	9

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37	Effect of UV Irradiation and UV/Chlorine Processes on Trichloronitromethane Formation During Chlorination of Ronidazole. <i>Clean - Soil, Air, Water</i> , 2017, 45, 1600163.	0.7	8
38	Analysis of a Stochastic Programming Model for Optimal Hydropower System Operation under a Deregulated Electricity Market by Considering Forecasting Uncertainty. <i>Water (Switzerland)</i> , 2018, 10, 885.	1.2	8
39	Streamflow scenario tree reduction based on conditional Monte Carlo sampling and regularized optimization. <i>Journal of Hydrology</i> , 2019, 577, 123943.	2.3	8
40	Comparison of Transboundary Water Resources Allocation Models Based on Game Theory and Multi-Objective Optimization. <i>Water (Switzerland)</i> , 2021, 13, 1421.	1.2	8
41	Multi-objective risk analysis for flood control operation of a complex reservoir system under multiple time-space correlated uncertainties. <i>Journal of Hydrology</i> , 2022, 606, 127419.	2.3	8
42	Selection of criteria for multi-criteria decision making of reservoir flood control operation. <i>Journal of Hydroinformatics</i> , 2017, 19, 558-571.	1.1	7
43	Exploration and attribution of synergistic gains from joint optimal operation of downstream Jinsha River cascade and Three Gorges cascade reservoirs for hydropower generation. <i>Journal of Hydroinformatics</i> , 2018, 20, 1042-1057.	1.1	7
44	Risk analysis of reservoir floodwater utilization coupling meteorological and hydrological uncertainties. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1507-1521.	1.9	7
45	An Optimal Model for Water Resources Risk Hedging Based on Water Option Trading. <i>Water (Switzerland)</i> , 2018, 10, 1026.	1.2	6
46	Stochastic generation of runoff series for multiple reservoirs based on generative adversarial networks. <i>Journal of Hydrology</i> , 2022, 605, 127326.	2.3	6
47	Multiobjective and Joint Operation Model for Multistakeholder Cascade Hydropower System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	4
48	Cloud-Based Multidimensional Parallel Dynamic Programming Algorithm for a Cascade Hydropower System. <i>Water Resources Management</i> , 2021, 35, 2705-2721.	1.9	3
49	Short Term Optimization of Cascade Reservoirs Operation Considering Flow Routing. , 2012, , .		1
50	Influence of complementing power load uncertainty on the long-term benefits of hydropower operations. <i>Energy Procedia</i> , 2019, 158, 6248-6253.	1.8	1
51	The Temporal Transferability of Parameters of Reservoir Long-Term Optimal Operation Models Based on BP ANN. , 2013, , .		0
52	A risk-based decision model for rainwater resource supply in forward contracts. <i>Water Resources Management</i> , 2022, 36, 1919-1936.	1.9	0