

Wenyan Wu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,860
citations

304602

22
h-index

265120

42
g-index

64
all docs

64
docs citations

64
times ranked

1866
citing authors

#	ARTICLE	IF	CITATIONS
1	Protocol for developing ANN models and its application to the assessment of the quality of the ANN model development process in drinking water quality modelling. <i>Environmental Modelling and Software</i> , 2014, 54, 108-127.	1.9	229
2	Efficient Object Localization Using Sparsely Distributed Passive RFID Tags. <i>IEEE Transactions on Industrial Electronics</i> , 2013, 60, 5914-5924.	5.2	156
3	Accounting for Greenhouse Gas Emissions in Multiobjective Genetic Algorithm Optimization of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 146-155.	1.3	105
4	Efficient Particle Filter Localization Algorithm in Dense Passive RFID Tag Environment. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 5641-5651.	5.2	105
5	Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1432.	2.8	96
6	Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	1.3	92
7	An ANN-based emulation modelling framework for flood inundation modelling: Application, challenges and future directions. <i>Environmental Modelling and Software</i> , 2020, 124, 104587.	1.9	79
8	A benchmarking approach for comparing data splitting methods for modeling water resources parameters using artificial neural networks. <i>Water Resources Research</i> , 2013, 49, 7598-7614.	1.7	76
9	On Lack of Robustness in Hydrological Model Development Due to Absence of Guidelines for Selecting Calibration and Evaluation Data: Demonstration for Data-Driven Models. <i>Water Resources Research</i> , 2018, 54, 1013-1030.	1.7	71
10	Mapping Dependence Between Extreme Rainfall and Storm Surge. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2461-2474.	1.0	68
11	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. <i>Earth's Future</i> , 2021, 9, e2021EF002340.	2.4	66
12	Single-Objective versus Multiobjective Optimization of Water Distribution Systems Accounting for Greenhouse Gas Emissions by Carbon Pricing. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 555-565.	1.3	64
13	Multiobjective optimization of water distribution systems accounting for economic cost, hydraulic reliability, and greenhouse gas emissions. <i>Water Resources Research</i> , 2013, 49, 1211-1225.	1.7	61
14	Incorporation of Variable-Speed Pumping in Multiobjective Genetic Algorithm Optimization of the Design of Water Transmission Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 543-552.	1.3	54
15	Improved validation framework and R-package for artificial neural network models. <i>Environmental Modelling and Software</i> , 2017, 92, 82-106.	1.9	49
16	Artificial neural network based hybrid modeling approach for flood inundation modeling. <i>Journal of Hydrology</i> , 2021, 592, 125605.	2.3	44
17	Including stakeholder input in formulating and solving real-world optimisation problems: Generic framework and case study. <i>Environmental Modelling and Software</i> , 2016, 79, 197-213.	1.9	35
18	Sensitivity of Optimal Tradeoffs between Cost and Greenhouse Gas Emissions for Water Distribution Systems to Electricity Tariff and Generation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 182-186.	1.3	34

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19	Streamflow prediction using LASSO-FCM-DBN approach based on hydro-meteorological condition classification. <i>Journal of Hydrology</i> , 2020, 580, 124253.	2.3	30
20	A rapid flood inundation modelling framework using deep learning with spatial reduction and reconstruction. <i>Environmental Modelling and Software</i> , 2021, 143, 105112.	1.9	30
21	A multi-class toll-based approach to reduce total emissions on roads for sustainable urban transportation. <i>Sustainable Cities and Society</i> , 2020, 63, 102435.	5.1	28
22	The changing nature of the water-energy nexus in urban water supply systems: a critical review of changes and responses. <i>Journal of Water and Climate Change</i> , 2020, 11, 1095-1122.	1.2	26
23	Estimating the probability of compound floods in estuarine regions. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2821-2841.	1.9	23
24	Identification of Optimal Water Supply Portfolios for a Major City. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	21
25	A classification-based deep belief networks model framework for daily streamflow forecasting. <i>Journal of Hydrology</i> , 2021, 595, 125967.	2.3	18
26	Surplus Power Factor as a Resilience Measure for Assessing Hydraulic Reliability in Water Transmission System Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 542-546.	1.3	15
27	SLAM Algorithm for 2D Object Trajectory Tracking based on RFID Passive Tags. , 2008, , .		14
28	Which precipitation forecasts to use? Deterministic versus coarser-resolution ensemble <sc>NWP</sc> models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 900-913.	1.0	14
29	Impact of ENSO on dependence between extreme rainfall and storm surge. <i>Environmental Research Letters</i> , 2019, 14, 124043.	2.2	13
30	Impacts of urbanization on precipitation patterns in the greater Beijing-Tianjin-Hebei metropolitan region in northern China. <i>Environmental Research Letters</i> , 2021, 16, 014042.	2.2	13
31	A sensor-based SLAM algorithm for camera tracking in virtual studio. <i>International Journal of Automation and Computing</i> , 2008, 5, 152-162.	4.5	12
32	Minimizing Pumping Energy Cost in Real-Time Operations of Water Distribution Systems Using Economic Model Predictive Control. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	12
33	A basis function approach for exploring the seasonal and spatial features of storm surge events. <i>Geophysical Research Letters</i> , 2017, 44, 7356-7365.	1.5	11
34	Extending a joint probability modelling approach for post-processing ensemble precipitation forecasts from numerical weather prediction models. <i>Journal of Hydrology</i> , 2022, 605, 127285.	2.3	11
35	Non-hydraulic Factors Analysis of Pipe Burst in Water Distribution Systems. <i>Procedia Engineering</i> , 2015, 119, 53-62.	1.2	10
36	Feasibility Study on Wireless Passive SAW Sensor in IoT Enabled Water Distribution System. , 2017, , .		9

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37	Behavioural informatics for improving water hygiene practice based on IoT environment. Journal of Biomedical Informatics, 2018, 78, 156-166.	2.5	9
38	A Wireless Passive SAW Delay Line Temperature and Pressure Sensor for Monitoring Water Distribution System. , 2018, , .		7
39	Water distribution network real-time simulation based on SCADA system using OPC communication. , 2011, , .		6
40	Predicting household water use behaviour for improved hygiene practices in internet of things environment via dynamic behaviour intervention model. IET Networks, 2016, 5, 143-151.	1.1	5
41	Simulation and conservation of the end use water based on behaviour intervention modelling. Procedia Engineering, 2015, 119, 761-770.	1.2	4
42	An Experimental Study of Two-Phase Pulse Flushing Technology in Water Distribution Systems. Water (Switzerland), 2017, 9, 927.	1.2	4
43	Improving Water Pressure Measurement Using Temperature-Compensated Wireless Passive SAW Bidirectional RDL Pressure Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	4
44	Effective Communication for Water Resilient Communities: A Conceptual Framework. Water (Switzerland), 2021, 13, 2880.	1.2	4
45	SAW Delay Line Based IoT Smart Sensing in Water Distribution System. , 2018, , .		3
46	A Multi-Iteration Enhanced 2P-SMA Method for Improved Error Reduction on a WP-SAW Water Temperature and Pressure Sensor. IEEE Access, 2021, 9, 48236-48243.	2.6	3
47	An IUWM incorporated model to improve water supply reliability in intermittent and no service areas. Resources, Conservation and Recycling, 2022, 181, 106248.	5.3	3
48	A Hybrid Marker-Based Camera Tracking Approach in Augmented Reality. , 2007, , .		2
49	Implementation of OGC Compliant Framework for Data Integration in Water Distribution System. Procedia Engineering, 2015, 119, 1366-1374.	1.2	2
50	Python program for spatial reduction and reconstruction method in flood inundation modelling. MethodsX, 2021, 8, 101527.	0.7	2
51	Toll and subsidy for freight vehicles on urban roads: A policy decision for City Logistics. Research in Transportation Economics, 2021, , 101132.	2.2	2
52	Establishment of the Scheduling Training System of Water Distribution Network Using Virtual Reality. , 2008, , .		1
53	Multi-objective optimization of water supply network rehabilitation. , 2009, , .		1
54	The water distribution network digital management platform in Harbin, China. , 2009, , .		1

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55	Research on water leakage prediction of urban water supply network based on grey GM (0, N) model. , 2011, , .		1
56	Sustainable Interoperability and Data Integration for the IoT-Based Information Systems. , 2017, , .		1
57	Research on water quality comprehensive evaluation of water supply network using SOM. , 2009, , .		0
58	Research on water supply pipeline failure consequence assessment model. , 2011, , .		0
59	The application of PLC in SBMBR sewage treatment automatic control of the system. , 2011, , .		0
60	Reconstructing climate trends adds skills to seasonal reference crop evapotranspiration forecasting. Hydrology and Earth System Sciences, 2022, 26, 941-954.	1.9	0