

Wenyan Wu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,579
citations

361296
20
h-index

315616
38
g-index

67
all docs

67
docs citations

67
times ranked

1590
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	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
3	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
4	Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1432.	2.8	96
5	Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	1.3	92
6	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
7	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
8	Mapping Dependence Between Extreme Rainfall and Storm Surge. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2461-2474.	1.0	68
9	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
10	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
11	Design and Implementation of an IoT-Based Indoor Air Quality Detector With Multiple Communication Interfaces. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9621-9632.	5.5	55
12	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
13	Improved validation framework and R-package for artificial neural network models. <i>Environmental Modelling and Software</i> , 2017, 92, 82-106.	1.9	49
14	Artificial neural network based hybrid modeling approach for flood inundation modeling. <i>Journal of Hydrology</i> , 2021, 592, 125605.	2.3	44
15	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
16	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
17	Streamflow prediction using LASSO-FCM-DBN approach based on hydro-meteorological condition classification. <i>Journal of Hydrology</i> , 2020, 580, 124253.	2.3	30
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Estimating the probability of compound floods in estuarine regions. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2821-2841.	1.9	23
21	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
22	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
23	Water contaminants detection using sensor placement approach in smart water networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 4971-4986.	3.3	15
24	Impact of ENSO on dependence between extreme rainfall and storm surge. <i>Environmental Research Letters</i> , 2019, 14, 124043.	2.2	13
25	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
26	Water Pressure Sensing based on Wireless Passive SAW Technology. <i>Procedia Engineering</i> , 2015, 119, 892-900.	1.2	12
27	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
28	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
29	A Time-Series Self-Supervised Learning Approach to Detection of Cyber-physical Attacks in Water Distribution Systems. <i>Energies</i> , 2022, 15, 914.	1.6	11
30	Non-hydraulic Factors Analysis of Pipe Burst in Water Distribution Systems. <i>Procedia Engineering</i> , 2015, 119, 53-62.	1.2	10
31	Feasibility Study on Wireless Passive SAW Sensor in IoT Enabled Water Distribution System. , 2017, , .		9
32	Behavioural informatics for improving water hygiene practice based on IoT environment. <i>Journal of Biomedical Informatics</i> , 2018, 78, 156-166.	2.5	9
33	Secure Data Aggregation Mechanism for Water Distribution System using Blockchain. , 2019, , .		8
34	Human Health Impact Analysis of Contaminant in IoT-Enabled Water Distributed Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3394.	1.3	8
35	WDSchain: A Toolbox for Enhancing the Security Using Blockchain Technology in Water Distribution System. <i>Water (Switzerland)</i> , 2021, 13, 1944.	1.2	8
36	Water Distribution System Optimisation Accounting for a Range of Future Possible Carbon Prices. , 2009, , .		7

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37	A Wireless Passive SAW Delay Line Temperature and Pressure Sensor for Monitoring Water Distribution System. , 2018, , .		7
38	An Experimental Study of Two-Phase Pulse Flushing Technology in Water Distribution Systems. Water (Switzerland), 2017, 9, 927.	1.2	4
39	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
40	Effective Communication for Water Resilient Communities: A Conceptual Framework. Water (Switzerland), 2021, 13, 2880.	1.2	4
41	Systematic Review of Flood and Drought Literature Based on Science Mapping and Content Analysis. Water (Switzerland), 2021, 13, 2788.	1.2	4
42	Water Pressure Monitoring Using a Temperature-Compensated WP-SAW Pressure Sensor. , 2020, , .		4
43	SAW Delay Line Based IoT Smart Sensing in Water Distribution System. , 2018, , .		3
44	Numerical Modelling and Simulation of Two-Phase Flow Flushing Method for Pipeline Cleaning in Water Distribution Systems. Water (Switzerland), 2020, 12, 2470.	1.2	3
45	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
46	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
47	Python program for spatial reduction and reconstruction method in flood inundation modelling. MethodsX, 2021, 8, 101527.	0.7	2
48	Toll and subsidy for freight vehicles on urban roads: A policy decision for City Logistics. Research in Transportation Economics, 2021, , 101132.	2.2	2
49	Energy Efficient Communication Design in UAV Enabled WPCN Using Dome Packing Method in Water Distribution System. Energies, 2022, 15, 3844.	1.6	2
50	Sustainable Interoperability and Data Integration for the IoT-Based Information Systems. , 2017, , .		1
51	A Dome packing method for UAV positioning using 3D Beamforming in WPCN for water distribution network. , 2021, , .		1
52	A Comparative Study of Methods to Forecast Domestic Energy Consumption Aggregated with Photovoltaic and Heat Pumps System. , 2021, , .		1
53	Merged two-level optimization for optimal pump operation of large scale urban water distribution system. Journal of Water Supply: Research and Technology - AQUA, 2015, 64, 915-926.	0.6	0
54	Design and Implementation of Energy Saving Controller for Air-Conditioner in Building. International Journal of Smart Home, 2015, 9, 47-54.	0.6	0

#	ARTICLE	IF	CITATIONS
55	Reconstructing climate trends adds skills to seasonal reference crop evapotranspiration forecasting. Hydrology and Earth System Sciences, 2022, 26, 941-954.	1.9	0
56	Innovative Water Supply Network Pressure Management Method—The Establishment and Application of the Intelligent Pressure-Regulating Vehicle. Energies, 2022, 15, 1870.	1.6	0
57	An MDE-based methodology for closed-world integrity constraint checking in the semantic web. Web Semantics, 2022, , 100717.	2.2	0
58	Enhanced Data-Driven LoRa LP-WAN Channel Model in Birmingham. , 2022, , .		0