

# Wenyan Wu

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9051633/wenyan-wu-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

55  
papers

1,177  
citations

16  
h-index

33  
g-index

64  
ext. papers

1,501  
ext. citations

4.9  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
55	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> , <b>2014</b> , 54, 108-127	5.2	167
54	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 5914-5924	8.9	121
53	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 5641-5651	8.9	97
52	Accounting for Greenhouse Gas Emissions in Multiobjective Genetic Algorithm Optimization of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2010</b> , 136, 146-155	2.8	84
51	Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 04014009	2.8	67
50	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> , <b>2010</b> , 136, 555-565	2.8	54
49	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> , <b>2018</b> , 54, 1013-1030	5.4	50
48	Multiobjective optimization of water distribution systems accounting for economic cost, hydraulic reliability, and greenhouse gas emissions. <i>Water Resources Research</i> , <b>2013</b> , 49, 1211-1225	5.4	50
47	A benchmarking approach for comparing data splitting methods for modeling water resources parameters using artificial neural networks. <i>Water Resources Research</i> , <b>2013</b> , 49, 7598-7614	5.4	49
46	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> , <b>2012</b> , 138, 543-552	2.8	45
45	Mapping Dependence Between Extreme Rainfall and Storm Surge. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 2461-2474	3.3	43
44	Improved validation framework and R-package for artificial neural network models. <i>Environmental Modelling and Software</i> , <b>2017</b> , 92, 82-106	5.2	35
43	An ANN-based emulation modelling framework for flood inundation modelling: Application, challenges and future directions. <i>Environmental Modelling and Software</i> , <b>2020</b> , 124, 104587	5.2	34
42	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> , <b>2012</b> , 138, 182-186	2.8	31
41	Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2020</b> , 7, e1432	5.7	29
40	Including stakeholder input in formulating and solving real-world optimisation problems: Generic framework and case study. <i>Environmental Modelling and Software</i> , <b>2016</b> , 79, 197-213	5.2	28
39	Identification of Optimal Water Supply Portfolios for a Major City. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2017</b> , 143, 05017007	2.8	16

38	A multi-class toll-based approach to reduce total emissions on roads for sustainable urban transportation. <i>Sustainable Cities and Society</i> , <b>2020</b> , 63, 102435	10.1	15
37	Streamflow prediction using LASSO-FCM-DBN approach based on hydro-meteorological condition classification. <i>Journal of Hydrology</i> , <b>2020</b> , 580, 124253	6	13
36	Artificial neural network based hybrid modeling approach for flood inundation modeling. <i>Journal of Hydrology</i> , <b>2021</b> , 592, 125605	6	13
35	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> , <b>2011</b> , 137, 542-546	2.8	12
34	A sensor-based SLAM algorithm for camera tracking in virtual studio. <i>International Journal of Automation and Computing</i> , <b>2008</b> , 5, 152-162	3.5	12
33	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> , <b>2020</b> , 11, 1095-1122	2.3	9
32	A basis function approach for exploring the seasonal and spatial features of storm surge events. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7356-7365	4.9	8
31	SLAM Algorithm for 2D Object Trajectory Tracking based on RFID Passive Tags <b>2008</b> ,		8
30	Feasibility Study on Wireless Passive SAW Sensor in IoT Enabled Water Distribution System <b>2017</b> ,		6
29	Non-hydraulic Factors Analysis of Pipe Burst in Water Distribution Systems. <i>Procedia Engineering</i> , <b>2015</b> , 119, 53-62		6
28	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. <i>Earth's Future</i> , <b>2021</b> , 9, e2021EF002340	7.9	6
27	Estimating the probability of compound floods in estuarine regions. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 2821-2841	5.5	6
26	Impact of ENSO on dependence between extreme rainfall and storm surge. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 124043	6.2	6
25	Water distribution network real-time simulation based on SCADA system using OPC communication <b>2011</b> ,		5
24	A classification-based deep belief networks model framework for daily streamflow forecasting. <i>Journal of Hydrology</i> , <b>2021</b> , 595, 125967	6	5
23	Which precipitation forecasts to use? Deterministic versus coarser-resolution ensemble NWP models. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2021</b> , 147, 900-913	6.4	5
22	Behavioural informatics for improving water hygiene practice based on IoT environment. <i>Journal of Biomedical Informatics</i> , <b>2018</b> , 78, 156-166	10.2	5
21	A rapid flood inundation modelling framework using deep learning with spatial reduction and reconstruction. <i>Environmental Modelling and Software</i> , <b>2021</b> , 143, 105112	5.2	5

20	Predicting household water use behaviour for improved hygiene practices in internet of things environment via dynamic behaviour intervention model. <i>IET Networks</i> , <b>2016</b> , 5, 143-151	2.8	4
19	Impacts of urbanization on precipitation patterns in the greater Beijing-Tianjin-Hebei metropolitan region in northern China. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 014042	6.2	4
18	A Wireless Passive SAW Delay Line Temperature and Pressure Sensor for Monitoring Water Distribution System <b>2018</b> ,		4
17	Simulation and conservation of the end use water based on behaviour intervention modelling. <i>Procedia Engineering</i> , <b>2015</b> , 119, 761-770		3
16	An Experimental Study of Two-Phase Pulse Flushing Technology in Water Distribution Systems. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 927	3	2
15	Extending a joint probability modelling approach for post-processing ensemble precipitation forecasts from numerical weather prediction models. <i>Journal of Hydrology</i> , <b>2022</b> , 605, 127285	6	2
14	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> , <b>2021</b> , 147,	2.8	2
13	. <i>IEEE Access</i> , <b>2021</b> , 9, 48236-48243	3.5	2
12	<b>2018</b> ,		2
11	Sustainable Interoperability and Data Integration for the IoT-Based Information Systems <b>2017</b> ,		1
10	Implementation of OGC Compliant Framework for Data Integration in Water Distribution System. <i>Procedia Engineering</i> , <b>2015</b> , 119, 1366-1374		1
9	Research on water leakage prediction of urban water supply network based on grey GM (0, N) model <b>2011</b> ,		1
8	Establishment of the Scheduling Training System of Water Distribution Network Using Virtual Reality <b>2008</b> ,		1
7	A Hybrid Marker-Based Camera Tracking Approach in Augmented Reality <b>2007</b> ,		1
6	Effective Communication for Water Resilient Communities: A Conceptual Framework. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2880	3	1
5	Python program for spatial reduction and reconstruction method in flood inundation modelling. <i>MethodsX</i> , <b>2021</b> , 8, 101527	1.9	0
4	Toll and subsidy for freight vehicles on urban roads: A policy decision for City Logistics. <i>Research in Transportation Economics</i> , <b>2021</b> , 101132	2.4	0
3	An IUWM incorporated model to improve water supply reliability in intermittent and no service areas. <i>Resources, Conservation and Recycling</i> , <b>2022</b> , 181, 106248	11.9	0

- 2 Improving Water Pressure Measurement Using Temperature-Compensated Wireless Passive SAW Bidirectional RDL Pressure Sensor. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1 5.2
- 1 Reconstructing climate trends adds skills to seasonal reference crop evapotranspiration forecasting. *Hydrology and Earth System Sciences*, **2022**, 26, 941-954 5.5