

# 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  | 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        |
| 2  | Improving Water Pressure Measurement Using Temperature-Compensated Wireless Passive SAW Bidirectional RDL Pressure Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.      | 2.4 | 4         |
| 3  | 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        |
| 4  | Reconstructing climate trends adds skills to seasonal reference crop evapotranspiration forecasting. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 941-954.  | 1.9 | 0         |
| 5  | Innovative Water Supply Network Pressure Management Method—The Establishment and Application of the Intelligent Pressure-Regulating Vehicle. <i>Energies</i> , 2022, 15, 1870.                                | 1.6 | 0         |
| 6  | An IUWM incorporated model to improve water supply reliability in intermittent and no service areas. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106248.  | 5.3 | 3         |
| 7  | An MDE-based methodology for closed-world integrity constraint checking in the semantic web. <i>Web Semantics</i> , 2022, , 100717.   | 2.2 | 0         |
| 8  | Energy Efficient Communication Design in UAV Enabled WPCN Using Dome Packing Method in Water Distribution System. <i>Energies</i> , 2022, 15, 3844.   | 1.6 | 2         |
| 9  | Enhanced Data-Driven LoRa LP-WAN Channel Model in Birmingham. , 2022, , .   |     | 0         |
| 10 | Artificial neural network based hybrid modeling approach for flood inundation modeling. <i>Journal of Hydrology</i> , 2021, 592, 125605.  | 2.3 | 44        |
| 11 | A Multi-Iteration Enhanced 2P-SMA Method for Improved Error Reduction on a WP-SAW Water Temperature and Pressure Sensor. <i>IEEE Access</i> , 2021, 9, 48236-48243.   | 2.6 | 3         |
| 12 | 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        |
| 13 | Human Health Impact Analysis of Contaminant in IoT-Enabled Water Distributed Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3394.  | 1.3 | 8         |
| 14 | Estimating the probability of compound floods in estuarine regions. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2821-2841.   | 1.9 | 23        |
| 15 | 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        |
| 16 | WDSchain: A Toolbox for Enhancing the Security Using Blockchain Technology in Water Distribution System. <i>Water (Switzerland)</i> , 2021, 13, 1944.   | 1.2 | 8         |
| 17 | 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        |
| 18 | Python program for spatial reduction and reconstruction method in flood inundation modelling. <i>MethodsX</i> , 2021, 8, 101527.  | 0.7 | 2         |

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|----|--|-----|-----------|
| 19 | Effective Communication for Water Resilient Communities: A Conceptual Framework. <i>Water (Switzerland)</i> , 2021, 13, 2880.  | 1.2 | 4         |
| 20 | Systematic Review of Flood and Drought Literature Based on Science Mapping and Content Analysis. <i>Water (Switzerland)</i> , 2021, 13, 2788.  | 1.2 | 4         |
| 21 | Toll and subsidy for freight vehicles on urban roads: A policy decision for City Logistics. <i>Research in Transportation Economics</i> , 2021, , 101132.  | 2.2 | 2         |
| 22 | A Dome packing method for UAV positioning using 3D Beamforming in WPCN for water distribution network. , 2021, , .   |     | 1         |
| 23 | A Comparative Study of Methods to Forecast Domestic Energy Consumption Aggregated with Photovoltaic and Heat Pumps System. , 2021, , .   |     | 1         |
| 24 | Streamflow prediction using LASSO-FCM-DBN approach based on hydro-meteorological condition classification. <i>Journal of Hydrology</i> , 2020, 580, 124253.  | 2.3 | 30        |
| 25 | Numerical Modelling and Simulation of Two-Phase Flow Flushing Method for Pipeline Cleaning in Water Distribution Systems. <i>Water (Switzerland)</i> , 2020, 12, 2470.   | 1.2 | 3         |
| 26 | 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        |
| 27 | Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1432.   | 2.8 | 96        |
| 28 | Water Pressure Monitoring Using a Temperature-Compensated WP-SAW Pressure Sensor. , 2020, , .  |     | 4         |
| 29 | 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        |
| 30 | Impact of ENSO on dependence between extreme rainfall and storm surge. <i>Environmental Research Letters</i> , 2019, 14, 124043.   | 2.2 | 13        |
| 31 | Secure Data Aggregation Mechanism for Water Distribution System using Blockchain. , 2019, , .  |     | 8         |
| 32 | Mapping Dependence Between Extreme Rainfall and Storm Surge. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2461-2474.  | 1.0 | 68        |
| 33 | 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        |
| 34 | Behavioural informatics for improving water hygiene practice based on IoT environment. <i>Journal of Biomedical Informatics</i> , 2018, 78, 156-166.   | 2.5 | 9         |
| 35 | A Wireless Passive SAW Delay Line Temperature and Pressure Sensor for Monitoring Water Distribution System. , 2018, , .  |     | 7         |
| 36 | SAW Delay Line Based IoT Smart Sensing in Water Distribution System. , 2018, , .   |     | 3         |

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|----|--|-----|-----------|
| 37 | Improved validation framework and R-package for artificial neural network models. Environmental Modelling and Software, 2017, 92, 82-106.  | 1.9 | 49        |
| 38 | A basis function approach for exploring the seasonal and spatial features of storm surge events. Geophysical Research Letters, 2017, 44, 7356-7365.  | 1.5 | 11        |
| 39 | Identification of Optimal Water Supply Portfolios for a Major City. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .  | 1.3 | 21        |
| 40 | Feasibility Study on Wireless Passive SAW Sensor in IoT Enabled Water Distribution System. , 2017, , .   |     | 9         |
| 41 | Sustainable Interoperability and Data Integration for the IoT-Based Information Systems. , 2017, , .   |     | 1         |
| 42 | An Experimental Study of Two-Phase Pulse Flushing Technology in Water Distribution Systems. Water (Switzerland), 2017, 9, 927.   | 1.2 | 4         |
| 43 | Including stakeholder input in formulating and solving real-world optimisation problems: Generic framework and case study. Environmental Modelling and Software, 2016, 79, 197-213.  | 1.9 | 35        |
| 44 | Water Pressure Sensingbased on Wireless Passive SAW Technology. Procedia Engineering, 2015, 119, 892-900.  | 1.2 | 12        |
| 45 | 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         |
| 46 | Non-hydraulic Factors Analysis of Pipe Burst in Water Distribution Systems. Procedia Engineering, 2015, 119, 53-62.  | 1.2 | 10        |
| 47 | Design and Implementation of Energy Saving Controller for Air-Conditioner in Building. International Journal of Smart Home, 2015, 9, 47-54.  | 0.6 | 0         |
| 48 | Battle of the Water Networks II. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .   | 1.3 | 92        |
| 49 | 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. Environmental Modelling and Software, 2014, 54, 108-127.     | 1.9 | 229       |
| 50 | Efficient Particle Filter Localization Algorithm in Dense Passive RFID Tag Environment. IEEE Transactions on Industrial Electronics, 2014, 61, 5641-5651.  | 5.2 | 105       |
| 51 | Multiobjective optimization of water distribution systems accounting for economic cost, hydraulic reliability, and greenhouse gas emissions. Water Resources Research, 2013, 49, 1211-1225.                                    | 1.7 | 61        |
| 52 | A benchmarking approach for comparing data splitting methods for modeling water resources parameters using artificial neural networks. Water Resources Research, 2013, 49, 7598-7614.  | 1.7 | 76        |
| 53 | Sensitivity of Optimal Tradeoffs between Cost and Greenhouse Gas Emissions for Water Distribution Systems to Electricity Tariff and Generation. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 182-186. | 1.3 | 34        |
| 54 | Incorporation of Variable-Speed Pumping in Multiobjective Genetic Algorithm Optimization of the Design of Water Transmission Systems. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 543-552.           | 1.3 | 54        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Surplus Power Factor as a Resilience Measure for Assessing Hydraulic Reliability in Water Transmission System Optimization. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 542-546.                  | 1.3 | 15        |
| 56 | Accounting for Greenhouse Gas Emissions in Multiobjective Genetic Algorithm Optimization of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 146-155.                      | 1.3 | 105       |
| 57 | Single-Objective versus Multiobjective Optimization of Water Distribution Systems Accounting for Greenhouse Gas Emissions by Carbon Pricing. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 555-565. | 1.3 | 64        |
| 58 | Water Distribution System Optimisation Accounting for a Range of Future Possible Carbon Prices. , 2009, , .   |     | 7         |