Feifei Zheng

List of Publications by Year
in descending order

50 papers	1,960 citations	201385 27 h-index	253896 43 g-index
50 all docs	50 docs citations	50 times ranked	1699 citing authors

#	Article	IF	Citations
1	Quantifying the dependence between extreme rainfall and storm surge in the coastal zone. Journal of Hydrology, 2013, 505, 172-187.	2.3	154
2	Modeling dependence between extreme rainfall and storm surge to estimate coastal flooding risk. Water Resources Research, 2014, 50, 2050-2071.	1.7	127
3	An Adaptive Convergence-Trajectory Controlled Ant Colony Optimization Algorithm With Application to Water Distribution System Design Problems. IEEE Transactions on Evolutionary Computation, 2017, 21, 773-791.	7.5	114
4	State-of-the-art review on the transient flow modeling and utilization for urban water supply system (UWSS) management. Journal of Water Supply: Research and Technology - AQUA, 2020, 69, 858-893.	0.6	104
5	A combined NLP–differential evolution algorithm approach for the optimization of looped water distribution systems. Water Resources Research, 2011, 47, .	1.7	103
6	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. Reviews of Geophysics, 2018, 56, 698-740.	9.0	90
7	Robust optimization of water infrastructure planning under deep uncertainty using metamodels. Environmental Modelling and Software, 2017, 93, 92-105.	1.9	78
8	Comparison of the Searching Behavior of NSGA-II, SAMODE, and Borg MOEAs Applied to Water Distribution System Design Problems. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	74
9	Self-Adaptive Differential Evolution Algorithm Applied to Water Distribution System Optimization. Journal of Computing in Civil Engineering, 2013, 27, 148-158.	2.5	73
10	On Lack of Robustness in Hydrological Model Development Due to Absence of Guidelines for Selecting Calibration and Evaluation Data: Demonstration for Data–Driven Models. Water Resources Research, 2018, 54, 1013-1030.	1.7	71
11	Opposing local precipitation extremes. Nature Climate Change, 2015, 5, 389-390.	8.1	62
12	An efficient multi-objective optimization method for water quality sensor placement within water distribution systems considering contamination probability variations. Water Research, 2018, 143, 165-175.	5.3	54
13	Hourly and Daily Urban Water Demand Predictions Using a Long Short-Term Memory Based Model. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	49
14	Pilot investigation on formation of 2,4,6-trichloroanisole via microbial O-methylation of 2,4,6-trichlorophenol in drinking water distribution system: An insight into microbial mechanism. Water Research, 2018, 131, 11-21.	5.3	44
15	Evaluating regional climate models for simulating sub-daily rainfall extremes. Climate Dynamics, 2016, 47, 1613-1628.	1.7	41
16	A graph decomposition–based approach for water distribution network optimization. Water Resources Research, 2013, 49, 2093-2109.	1.7	37
17	An efficient hybrid approach for multiobjective optimization of water distribution systems. Water Resources Research, 2014, 50, 3650-3671.	1.7	37
18	A Comprehensive Framework to Evaluate Hydraulic and Water Quality Impacts of Pipe Breaks on Water Distribution Systems. Water Resources Research, 2018, 54, 8174-8195.	1.7	37

#	Article	IF	Citations
19	Efficient Leak Localization in Water Distribution Systems Using Multistage Optimal Valve Operations and Smart Demand Metering. Water Resources Research, 2020, 56, e2020WR028285.	1.7	37
20	A decomposition and multistage optimization approach applied to the optimization of water distribution systems with multiple supply sources. Water Resources Research, 2013, 49, 380-399.	1.7	36
21	Efficient Numerical Approach for Simultaneous Calibration of Pipe Roughness Coefficients and Nodal Demands for Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	36
22	Water quality modeling in sewer networks: Review and future research directions. Water Research, 2021, 202, 117419.	5.3	35
23	A hybrid cuckoo–harmony search algorithm for optimal design of water distribution systems. Journal of Hydroinformatics, 2016, 18, 544-563.	1.1	34
24	Assessing the global resilience of water quality sensor placement strategies within water distribution systems. Water Research, 2020, 172, 115527.	5.3	32
25	Better Understanding of the Capacity of Pressure Sensor Systems to Detect Pipe Burst within Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	30
26	Reaction of fleroxacin with chlorine and chlorine dioxide in drinking water distribution systems: Kinetics, transformation mechanisms and toxicity evaluations. Chemical Engineering Journal, 2019, 374, 1191-1203.	6.6	30
27	On the Robustness of Conceptual Rainfall–Runoff Models to Calibration and Evaluation Data Set Splits Selection: A Large Sample Investigation. Water Resources Research, 2020, 56, e2019WR026752.	1.7	29
28	Coupled Binary Linear Programming–Differential Evolution Algorithm Approach for Water Distribution System Optimization. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 585-597.	1.3	27
29	Improving the Resilience of Postdisaster Water Distribution Systems Using Dynamic Optimization Framework. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	27
30	Multi-Objective Optimal Design of Water Distribution Networks Accounting for Transient Impacts. Water Resources Management, 2020, 34, 1517-1534.	1.9	27
31	Improved Understanding on the Searching Behavior of NSGA-II Operators Using Run-Time Measure Metrics with Application to Water Distribution System Design Problems. Water Resources Management, 2017, 31, 1121-1138.	1.9	25
32	Efficient joint probability analysis of flood risk. Journal of Hydroinformatics, 2015, 17, 584-597.	1.1	22
33	Assessing the performance of the independence method in modeling spatial extreme rainfall. Water Resources Research, 2015, 51, 7744-7758.	1.7	21
34	An efficient dynamic route optimization for urban flooding evacuation based on Cellular Automata. Computers, Environment and Urban Systems, 2021, 87, 101622.	3.3	20
35	Investigating Effectiveness of Sensor Placement Strategies in Contamination Detection within Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 06018003.	1.3	18
36	Improving the Effectiveness of Multiobjective Optimization Design of Urban Drainage Systems. Water Resources Research, 2020, 56, e2019WR026656.	1.7	16

#	Article	IF	Citations
37	Real-time foul sewer hydraulic modelling driven by water consumption data from water distribution systems. Water Research, 2021, 188, 116544.	5.3	16
38	Noncrossover Dither Creeping Mutation-Based Genetic Algorithm for Pipe Network Optimization. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 553-557.	1.3	14
39	Battle of Postdisaster Response and Restoration. Journal of Water Resources Planning and Management - ASCE, 2020, 146, 04020067.	1.3	14
40	Estimating Rainfall Intensity Using an Image-Based Deep Learning Model. Engineering, 2023, 21, 162-174.	3.2	11
41	Enhancing the effectiveness of urban drainage system design with an improved ACO-based method. Journal of Hydro-Environment Research, 2021, 38, 96-105.	1.0	10
42	Comparing the Real-Time Searching Behavior of Four Differential-Evolution Variants Applied to Water-Distribution-Network Design Optimization. Journal of Water Resources Planning and Management - ASCE, 2015, 141, 04015016.	1.3	9
43	Achieving Robust and Transferable Performance for Conservation€Based Models of Dynamical Physical Systems. Water Resources Research, 2022, 58, .	1.7	8
44	Skeletonizing Pipes in Series within Urban Water Distribution Systems Using a Transient-Based Method. Journal of Hydraulic Engineering, 2019, 145, .	0.7	6
45	Do Existing Multiobjective Evolutionary Algorithms Use a Sufficient Number of Operators? An Empirical Investigation for Water Distribution Design Problems. Water Resources Research, 2020, 56, e2019WR026031.	1.7	6
46	Foul sewer model development using geotagged information and smart water meter data. Water Research, 2021, 204, 117594.	5.3	5
47	Impacts of Nodal Demand Allocations on Transient-Based Skeletonization of Water Distribution Systems. Journal of Hydraulic Engineering, 2020, 146, .	0.7	4
48	Minimum transport-driven algorithm for water distribution network partitioning. Journal of Water Supply: Research and Technology - AQUA, 2022, 71, 120-138.	0.6	3
49	Citizens arrest river pollution in China. Nature, 2016, 535, 231-231.	13.7	2
50	Pressure-balanced Saint€"Venant equations for improved asymptotic modelling of pipe flow. Journal of Hydro-Environment Research, 2021, 37, 46-46.	1.0	1