

Feifei Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,960
citations

201674

27
h-index

254184

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. <i>Journal of Hydrology</i> , 2013, 505, 172-187.	5.4	154
2	Modeling dependence between extreme rainfall and storm surge to estimate coastal flooding risk. <i>Water Resources Research</i> , 2014, 50, 2050-2071.	4.2	127
3	An Adaptive Convergence-Trajectory Controlled Ant Colony Optimization Algorithm With Application to Water Distribution System Design Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2017, 21, 773-791.	10.0	114
4	State-of-the-art review on the transient flow modeling and utilization for urban water supply system (UWSS) management. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2020, 69, 858-893.	1.4	104
5	A combined NLP–differential evolution algorithm approach for the optimization of looped water distribution systems. <i>Water Resources Research</i> , 2011, 47, .	4.2	103
6	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. <i>Reviews of Geophysics</i> , 2018, 56, 698-740.	23.0	90
7	Robust optimization of water infrastructure planning under deep uncertainty using metamodels. <i>Environmental Modelling and Software</i> , 2017, 93, 92-105.	4.5	78
8	Comparison of the Searching Behavior of NSGA-II, SAMODE, and Borg MOEAs Applied to Water Distribution System Design Problems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	74
9	Self-Adaptive Differential Evolution Algorithm Applied to Water Distribution System Optimization. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 148-158.	4.7	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. <i>Water Resources Research</i> , 2018, 54, 1013-1030.	4.2	71
11	Opposing local precipitation extremes. <i>Nature Climate Change</i> , 2015, 5, 389-390.	18.8	62
12	An efficient multi-objective optimization method for water quality sensor placement within water distribution systems considering contamination probability variations. <i>Water Research</i> , 2018, 143, 165-175.	11.3	54
13	Hourly and Daily Urban Water Demand Predictions Using a Long Short-Term Memory Based Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	2.6	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. <i>Water Research</i> , 2018, 131, 11-21.	11.3	44
15	Evaluating regional climate models for simulating sub-daily rainfall extremes. <i>Climate Dynamics</i> , 2016, 47, 1613-1628.	3.8	41
16	A graph decomposition–based approach for water distribution network optimization. <i>Water Resources Research</i> , 2013, 49, 2093-2109.	4.2	37
17	An efficient hybrid approach for multiobjective optimization of water distribution systems. <i>Water Resources Research</i> , 2014, 50, 3650-3671.	4.2	37
18	A Comprehensive Framework to Evaluate Hydraulic and Water Quality Impacts of Pipe Breaks on Water Distribution Systems. <i>Water Resources Research</i> , 2018, 54, 8174-8195.	4.2	37

#	ARTICLE	IF	CITATIONS
19	Efficient Leak Localization in Water Distribution Systems Using Multistage Optimal Valve Operations and Smart Demand Metering. <i>Water Resources Research</i> , 2020, 56, e2020WR028285.	4.2	37
20	A decomposition and multistage optimization approach applied to the optimization of water distribution systems with multiple supply sources. <i>Water Resources Research</i> , 2013, 49, 380-399.	4.2	36
21	Efficient Numerical Approach for Simultaneous Calibration of Pipe Roughness Coefficients and Nodal Demands for Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	36
22	Water quality modeling in sewer networks: Review and future research directions. <i>Water Research</i> , 2021, 202, 117419.	11.3	35
23	A hybrid cuckooâ€“harmony search algorithm for optimal design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2016, 18, 544-563.	2.4	34
24	Assessing the global resilience of water quality sensor placement strategies within water distribution systems. <i>Water Research</i> , 2020, 172, 115527.	11.3	32
25	Better Understanding of the Capacity of Pressure Sensor Systems to Detect Pipe Burst within Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	30
26	Reaction of fleroxacin with chlorine and chlorine dioxide in drinking water distribution systems: Kinetics, transformation mechanisms and toxicity evaluations. <i>Chemical Engineering Journal</i> , 2019, 374, 1191-1203.	12.7	30
27	On the Robustness of Conceptual Rainfallâ€“Runoff Models to Calibration and Evaluation Data Set Splits Selection: A Large Sample Investigation. <i>Water Resources Research</i> , 2020, 56, e2019WR026752.	4.2	29
28	Coupled Binary Linear Programmingâ€“Differential Evolution Algorithm Approach for Water Distribution System Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 585-597.	2.6	27
29	Improving the Resilience of Postdisaster Water Distribution Systems Using Dynamic Optimization Framework. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	2.6	27
30	Multi-Objective Optimal Design of Water Distribution Networks Accounting for Transient Impacts. <i>Water Resources Management</i> , 2020, 34, 1517-1534.	3.9	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. <i>Water Resources Management</i> , 2017, 31, 1121-1138.	3.9	25
32	Efficient joint probability analysis of flood risk. <i>Journal of Hydroinformatics</i> , 2015, 17, 584-597.	2.4	22
33	Assessing the performance of the independence method in modeling spatial extreme rainfall. <i>Water Resources Research</i> , 2015, 51, 7744-7758.	4.2	21
34	An efficient dynamic route optimization for urban flooding evacuation based on Cellular Automata. <i>Computers, Environment and Urban Systems</i> , 2021, 87, 101622.	7.1	20
35	Investigating Effectiveness of Sensor Placement Strategies in Contamination Detection within Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 06018003.	2.6	18
36	Improving the Effectiveness of Multiobjective Optimization Design of Urban Drainage Systems. <i>Water Resources Research</i> , 2020, 56, e2019WR026656.	4.2	16

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37	Real-time foul sewer hydraulic modelling driven by water consumption data from water distribution systems. <i>Water Research</i> , 2021, 188, 116544.	11.3	16
38	Noncrossover Dither Creeping Mutation-Based Genetic Algorithm for Pipe Network Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 553-557.	2.6	14
39	Battle of Postdisaster Response and Restoration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, 04020067.	2.6	14
40	Estimating Rainfall Intensity Using an Image-Based Deep Learning Model. <i>Engineering</i> , 2023, 21, 162-174.	6.7	11
41	Enhancing the effectiveness of urban drainage system design with an improved ACO-based method. <i>Journal of Hydro-Environment Research</i> , 2021, 38, 96-105.	2.2	10
42	Comparing the Real-Time Searching Behavior of Four Differential-Evolution Variants Applied to Water-Distribution-Network Design Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, 04015016.	2.6	9
43	Achieving Robust and Transferable Performance for Conservation-Based Models of Dynamical Physical Systems. <i>Water Resources Research</i> , 2022, 58, .	4.2	8
44	Skeletonizing Pipes in Series within Urban Water Distribution Systems Using a Transient-Based Method. <i>Journal of Hydraulic Engineering</i> , 2019, 145, .	1.5	6
45	Do Existing Multiobjective Evolutionary Algorithms Use a Sufficient Number of Operators? An Empirical Investigation for Water Distribution Design Problems. <i>Water Resources Research</i> , 2020, 56, e2019WR026031.	4.2	6
46	Foul sewer model development using geotagged information and smart water meter data. <i>Water Research</i> , 2021, 204, 117594.	11.3	5
47	Impacts of Nodal Demand Allocations on Transient-Based Skeletonization of Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	4
48	Minimum transport-driven algorithm for water distribution network partitioning. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2022, 71, 120-138.	1.4	3
49	Citizens arrest river pollution in China. <i>Nature</i> , 2016, 535, 231-231.	27.8	2
50	Pressure-balanced Saint-Venant equations for improved asymptotic modelling of pipe flow. <i>Journal of Hydro-Environment Research</i> , 2021, 37, 46-46.	2.2	1