Ali Haghighi

List of Publications by Year
in descending order

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49 papers	1,149 citations	361045 20 h-index	414034 32 g-index
52 all docs	52 docs citations	52 times ranked	742 citing authors

#	Article	IF	Citations
1	Optimization of Conventional Rule Curves Coupled with Hedging Rules for Reservoir Operation. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 693-698.	1.3	85
2	GA-ILP Method for Optimization of Water Distribution Networks. Water Resources Management, 2011, 25, 1791-1808.	1.9	81
3	Optimization of Sewer Networks Using an Adaptive Genetic Algorithm. Water Resources Management, 2012, 26, 3441-3456.	1.9	70
4	Optimization of Pump Scheduling Program in Water Supply Systems Using a Self-Adaptive NSGA-II; a Review of Theory to Real Application. Water Resources Management, 2017, 31, 1283-1304.	1.9	68
5	Detection of Leakage Freshwater and Friction Factor Calibration in Drinking Networks Using Central Force Optimization. Water Resources Management, 2012, 26, 2347-2363.	1.9	63
6	Multiobjective Management of Water Allocation to Sustainable Irrigation Planning and Optimal Cropping Pattern. Journal of Irrigation and Drainage Engineering - ASCE, 2016, 142, .	0.6	61
7	Uncertainty analysis of water supply networks using the fuzzy set theory and NSGA-II. Engineering Applications of Artificial Intelligence, 2014, 32, 270-282.	4.3	51
8	Straightforward Transient-Based Approach for the Creep Function Determination in Viscoelastic Pipes. Journal of Hydraulic Engineering, 2014, 140, 04014058.	0.7	48
9	Hybrid green-blue-gray decentralized urban drainage systems design, a simulation-optimization framework. Journal of Environmental Management, 2019, 249, 109364.	3.8	46
10	Leak detection in pipelines by inverse backward transient analysis. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 311-318.	0.7	40
11	Loop-by-Loop Cutting Algorithm to Generate Layouts for Urban Drainage Systems. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 693-703.	1.3	39
12	Deterministic Integrated Optimization Model for Sewage Collection Networks Using Tabu Search. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	36
13	Optimum leak detection and calibration of pipe networks by inverse transient analysis. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 371-376.	0.7	32
14	Direct backward transient analysis for leak detection in pressurized pipelines: from theory to real application. Journal of Water Supply: Research and Technology - AQUA, 2012, 61, 189-200.	0.6	32
15	Using uncertainty and sensitivity analysis for finding the best rainfall-runoff model in mountainous watersheds (Case study: the Navrood watershed in Iran). Journal of Mountain Science, 2019, 16, 529-541.	0.8	24
16	Reliability-based layout design of sewage collection systems in flat areas. Urban Water Journal, 2016, 13, 790-802.	1.0	23
17	Hanging Gardens Algorithm to Generate Decentralized Layouts for the Optimization of Urban Drainage Systems. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	23
18	Toward Sustainable Urban Drainage Infrastructure Planning: A Combined Multiobjective Optimization and Multicriteria Decision-Making Platform. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	22

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19	Generation of optimal (de)centralized layouts for urban drainage systems: A graph-theory-based combinatorial multi-objective optimization framework. Sustainable Cities and Society, 2022, 81, 103827.	5.1	21
20	Uncertainty Analysis of Pipe-Network Hydraulics Using a Many-Objective Particle Swarm Optimization. Journal of Hydraulic Engineering, 2016, 142, .	0.7	20
21	Simultaneous Optimization of Operating Rules and Rule Curves for Multireservoir Systems Using a Self-Adaptive Simulation-GA Model. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	20
22	Frequency domain modelling of pipe transient flow with the virtual valves method to reduce linearization errors. Mechanical Systems and Signal Processing, 2019, 131, 486-504.	4.4	19
23	A fuzzy approach for considering uncertainty in transient analysis of pipe networks. Journal of Hydroinformatics, 2012, 14, 1024-1035.	1.1	17
24	Transient protection optimization of pipelines using air-chamber and air-inlet valves. KSCE Journal of Civil Engineering, 2017, 21, 1991-1997.	0.9	17
25	Leakage detection and calibration of pipe networks by the inverse transient analysis modified by Gaussian functions for leakage simulation. Journal of Water Supply: Research and Technology - AQUA, 2018, 67, 404-413.	0.6	17
26	Transient generation in pipe networks for leak detection. Water Management, 2011, 164, 311-318.	0.4	15
27	Computer-Aided Decision-Making Model for Multiphase Upgrading of Aged Water Distribution Mains. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	15
28	Analysis of Transient Flow Caused by Fluctuating Consumptions in Pipe Networks: A Many-Objective Genetic Algorithm Approach. Water Resources Management, 2015, 29, 2233-2248.	1.9	13
29	Application of the Frequency Response Method for Transient Flow Analysis of Looped Pipe Networks. International Journal of Civil Engineering, 2017, 15, 677-687.	0.9	13
30	Developments in Multi-Objective Dynamic Optimization Algorithm for Design of Water Distribution Mains. Water Resources Management, 2020, 34, 2699-2716.	1.9	13
31	Optimization of gated spillways operation for flood risk management in multi-reservoir systems. Natural Hazards, 2016, 82, 299-320.	1.6	12
32	Stability analysis of gravity dams under uncertainty using the fuzzy sets theory and a many-objective GA. Journal of Intelligent and Fuzzy Systems, 2016, 30, 1857-1868.	0.8	11
33	Integrating Structural Resilience in the Design of Urban Drainage Networks in Flat Areas Using a Simplified Multi-Objective Optimization Framework. Water (Switzerland), 2021, 13, 269.	1.2	10
34	A Graph Portioning Approach for Hydraulic Analysis-Design of Looped Pipe Networks. Water Resources Management, 2015, 29, 5339-5352.	1.9	8
35	Multi-objective optimization of transient protection for pipelines with regard to cost and serviceability. Journal of Water Supply: Research and Technology - AQUA, 2017, 66, 340-352.	0.6	8
36	Uncertainty Analysis of Transient Flow in Water Distribution Networks. Water Resources Management, 2018, 32, 3853-3870.	1.9	8

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37	Multi-reservoir System Operation in Drought Periods with Balancing Multiple Groups of Objectives. KSCE Journal of Civil Engineering, 2019, 23, 914-922.	0.9	7
38	Machine Learningâ€“Assisted Model for Leak Detection in Water Distribution Networks Using Hydraulic Transient Flows. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	7
39	Toward Decentralised Sanitary Sewage Collection Systems: A Multiobjective Approach for Cost-Effective and Resilient Designs. Water (Switzerland), 2021, 13, 1886.	1.2	6
40	Development of a Self-Adaptive Ant Colony Optimization for Designing Pipe Networks. Water Resources Management, 2019, 33, 4715-4729.	1.9	5
41	Mathematical and experimental modeling of reverse osmosis (RO) process. Korean Journal of Chemical Engineering, 2021, 38, 366-379.	1.2	5
42	Surrogate-Assisted Inverse Transient Analysis (SAITA) for Leakage Detection in Pressurized Piping Systems. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 2707-2718.	1.0	4
43	A framework for optimal reliability-based storm sewer network design in flat areas. Canadian Journal of Civil Engineering, 2017, 44, 139-150.	0.7	3
44	Evaluation of the Seismic Bearing Capacity of Shallow Foundations Located on the Two-Layered Clayey Soils. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 49-57.	1.0	3
45	A Graph-Theory Based Algorithm to Generate Decentralized Urban Drainage Layouts. Green Energy and Technology, 2019, , 633-637.	0.4	2
46	Machine learning approach to transient-based leak detection of pressurized pipelines: Classification vs Regression. Journal of Civil Structural Health Monitoring, 2022, 12, 611-628.	2.0	2
47	Reverse flood routing in an open channel using a combined model of genetic algorithm and a numerical model. Water Practice and Technology, 0, , .	1.0	1
48	Closure to â€œUncertainty Analysis of Pipe-Network Hydraulics Using a Many-Objective Particle Swarm Optimizationâ€•by Adell Moradi Sabzkouhi and Ali Haghighi. Journal of Hydraulic Engineering, 2018, 144, 07018002.	0.7	0
49	Closure to â€œSimultaneous Optimization of Operating Rules and Rule Curves for Multireservoir Systems Using a Self-Adaptive Simulation-GA Modelâ€•by Ali Ahmadi Najl, Ali Haghighi, and Hossein Mohammad Vali Samani. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 07018004.	1.3	0