

# Ali Haghghi

## List of Publications by Year in Descending Order

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

48  
papers

790  
citations

16  
h-index

26  
g-index

51  
ext. papers

965  
ext. citations

2.9  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
48	Generation of optimal (de)centralized layouts for urban drainage systems: A graph-theory-based combinatorial multi-objective optimization framework. <i>Sustainable Cities and Society</i> , <b>2022</b> , 81, 103827	10.1	3
47	Toward Decentralised Sanitary Sewage Collection Systems: A Multiobjective Approach for Cost-Effective and Resilient Designs. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1886	3	3
46	Toward Sustainable Urban Drainage Infrastructure Planning: A Combined Multiobjective Optimization and Multicriteria Decision-Making Platform. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2021</b> , 147, 04021049	2.8	7
45	Integrating Structural Resilience in the Design of Urban Drainage Networks in Flat Areas Using a Simplified Multi-Objective Optimization Framework. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 269	3	5
44	Mathematical and experimental modeling of reverse osmosis (RO) process. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 366-379	2.8	1
43	Developments in Multi-Objective Dynamic Optimization Algorithm for Design of Water Distribution Mains. <i>Water Resources Management</i> , <b>2020</b> , 34, 2699-2716	3.7	3
42	Surrogate-Assisted Inverse Transient Analysis (SAITA) for Leakage Detection in Pressurized Piping Systems. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , <b>2020</b> , 1	1.1	2
41	Frequency domain modelling of pipe transient flow with the virtual valves method to reduce linearization errors. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 131, 486-504	7.8	11
40	Using uncertainty and sensitivity analysis for finding the best rainfall-runoff model in mountainous watersheds (Case study: the Navrood watershed in Iran). <i>Journal of Mountain Science</i> , <b>2019</b> , 16, 529-541	2.1	11
39	Computer-Aided Decision-Making Model for Multiphase Upgrading of Aged Water Distribution Mains. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2019</b> , 145, 04019008	2.8	7
38	Evaluation of the Seismic Bearing Capacity of Shallow Foundations Located on the Two-Layered Clayey Soils. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , <b>2019</b> , 43, 49-57	1.1	2
37	Hybrid green-blue-gray decentralized urban drainage systems design, a simulation-optimization framework. <i>Journal of Environmental Management</i> , <b>2019</b> , 249, 109364	7.9	25
36	Hanging Gardens Algorithm to Generate Decentralized Layouts for the Optimization of Urban Drainage Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2019</b> , 145, 04019034	2.8	13
35	Development of a Self-Adaptive Ant Colony Optimization for Designing Pipe Networks. <i>Water Resources Management</i> , <b>2019</b> , 33, 4715-4729	3.7	2
34	A Graph-Theory Based Algorithm to Generate Decentralized Urban Drainage Layouts. <i>Green Energy and Technology</i> , <b>2019</b> , 633-637	0.6	1
33	Multi-reservoir System Operation in Drought Periods with Balancing Multiple Groups of Objectives. <i>KSCE Journal of Civil Engineering</i> , <b>2019</b> , 23, 914-922	1.9	6
32	Closure to Uncertainty Analysis of Pipe-Network Hydraulics Using a Many-Objective Particle Swarm Optimization by Adell Moradi Sabzkouhi and Ali Haghghi. <i>Journal of Hydraulic Engineering</i> , <b>2018</b> , 144, 07018002	1.8	

31	Uncertainty Analysis of Transient Flow in Water Distribution Networks. <i>Water Resources Management</i> , <b>2018</b> , 32, 3853-3870	3.7	6
30	Closure to Simultaneous Optimization of Operating Rules and Rule Curves for Multireservoir Systems Using a Self-Adaptive Simulation-GA Model by Ali Ahmadi Najl, Ali Haghighi, and Hossein Mohammad Vali Samani. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2018</b> , 144, 07018004	2.8	
29	Leakage detection and calibration of pipe networks by the inverse transient analysis modified by Gaussian functions for leakage simulation <b>2018</b> , 67, 404-413		10
28	Optimization of Pump Scheduling Program in Water Supply Systems Using a Self-Adaptive NSGA-II; a Review of Theory to Real Application. <i>Water Resources Management</i> , <b>2017</b> , 31, 1283-1304	3.7	42
27	Multi-objective optimization of transient protection for pipelines with regard to cost and serviceability <b>2017</b> , 66, 340-352		8
26	Application of the Frequency Response Method for Transient Flow Analysis of Looped Pipe Networks. <i>International Journal of Civil Engineering</i> , <b>2017</b> , 15, 677-687	1.9	7
25	A framework for optimal reliability-based storm sewer network design in flat areas. <i>Canadian Journal of Civil Engineering</i> , <b>2017</b> , 44, 139-150	1.3	2
24	Intelligent Optimization of Wastewater Collection Networks. <i>Intelligent Systems Reference Library</i> , <b>2017</b> , 41-65	0.8	1
23	Transient protection optimization of pipelines using air-chamber and air-inlet valves. <i>KSCE Journal of Civil Engineering</i> , <b>2017</b> , 21, 1991-1997	1.9	10
22	Multiobjective Management of Water Allocation to Sustainable Irrigation Planning and Optimal Cropping Pattern. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , <b>2016</b> , 142, 05015008	1.1	40
21	Simultaneous Optimization of Operating Rules and Rule Curves for Multireservoir Systems Using a Self-Adaptive Simulation-GA Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2016</b> , 142, 04016041	2.8	19
20	Optimization of gated spillways operation for flood risk management in multi-reservoir systems. <i>Natural Hazards</i> , <b>2016</b> , 82, 299-320	3	10
19	Reliability-based layout design of sewage collection systems in flat areas. <i>Urban Water Journal</i> , <b>2016</b> , 13, 790-802	2.3	16
18	Stability analysis of gravity dams under uncertainty using the fuzzy sets theory and a many-objective GA. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 30, 1857-1868	1.6	11
17	Uncertainty Analysis of Pipe-Network Hydraulics Using a Many-Objective Particle Swarm Optimization. <i>Journal of Hydraulic Engineering</i> , <b>2016</b> , 142, 04016030	1.8	11
16	Analysis of Transient Flow Caused by Fluctuating Consumptions in Pipe Networks: A Many-Objective Genetic Algorithm Approach. <i>Water Resources Management</i> , <b>2015</b> , 29, 2233-2248	3.7	10
15	A Graph Portioning Approach for Hydraulic Analysis-Design of Looped Pipe Networks. <i>Water Resources Management</i> , <b>2015</b> , 29, 5339-5352	3.7	8
14	Deterministic Integrated Optimization Model for Sewage Collection Networks Using Tabu Search. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2015</b> , 141, 04014045	2.8	29

13	Uncertainty analysis of water supply networks using the fuzzy set theory and NSGA-II. <i>Engineering Applications of Artificial Intelligence</i> , <b>2014</b> , 32, 270-282	7.2	42
12	Optimization of Conventional Rule Curves Coupled with Hedging Rules for Reservoir Operation. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 693-698	2.8	63
11	Straightforward Transient-Based Approach for the Creep Function Determination in Viscoelastic Pipes. <i>Journal of Hydraulic Engineering</i> , <b>2014</b> , 140, 04014058	1.8	37
10	Loop-by-Loop Cutting Algorithm to Generate Layouts for Urban Drainage Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2013</b> , 139, 693-703	2.8	29
9	Optimization of Sewer Networks Using an Adaptive Genetic Algorithm. <i>Water Resources Management</i> , <b>2012</b> , 26, 3441-3456	3.7	51
8	Detection of Leakage Freshwater and Friction Factor Calibration in Drinking Networks Using Central Force Optimization. <i>Water Resources Management</i> , <b>2012</b> , 26, 2347-2363	3.7	49
7	A fuzzy approach for considering uncertainty in transient analysis of pipe networks. <i>Journal of Hydroinformatics</i> , <b>2012</b> , 14, 1024-1035	2.6	14
6	Direct backward transient analysis for leak detection in pressurized pipelines: from theory to real application <b>2012</b> , 61, 189-200		21
5	Transient generation in pipe networks for leak detection. <i>Water Management</i> , <b>2011</b> , 164, 311-318	1	10
4	GA-ILP Method for Optimization of Water Distribution Networks. <i>Water Resources Management</i> , <b>2011</b> , 25, 1791-1808	3.7	69
3	Optimum leak detection and calibration of pipe networks by inverse transient analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2010</b> , 48, 371-376	1.9	27
2	Leak detection in pipelines by inverse backward transient analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2009</b> , 47, 311-318	1.9	34
1	Machine learning approach to transient-based leak detection of pressurized pipelines: Classification vs Regression. <i>Journal of Civil Structural Health Monitoring</i> ,1	2.9	1