Hamid Reza Safavi

List of Publications by Citations

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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.

53 papers	773 citations	16 h-index	26 g-index
54 ext. papers	973 ext. citations	3.1 avg, IF	4.85 L-index

#	Paper	IF	Citations
53	Simulation-Optimization Modeling of Conjunctive Use of Surface Water and Groundwater. *Water Resources Management*, **2010**, 24, 1965-1988	3.7	102
52	Conjunctive Use of Surface Water and Groundwater: Application of Support Vector Machines (SVMs) and Genetic Algorithms. *Water Resources Management*, **2013**, 27, 2623-2644	3.7	75
51	Expert knowledge based modeling for integrated water resources planning and management in the Zayandehrud River Basin. *Journal of Hydrology*, **2015**, 528, 773-789	6	58
50	f-MOPSO: An alternative multi-objective PSO algorithm for conjunctive water use management. *Journal of Hydro-Environment Research*, **2017**, 14, 1-18	2.3	44
49	Groundwater vulnerability assessment using fuzzy logic: a case study in the Zayandehrood aquifers, Iran. *Environmental Management*, **2013**, 51, 267-77	3.1	42
48	Integrated Index for Assessment of Vulnerability to Drought, Case Study: Zayandehrood River Basin, Iran. *Water Resources Management*, **2014**, 28, 1671-1688	3.7	37
47	Scenario analysis for integrated water resources planning and management under uncertainty in the Zayandehrud river basin. *Journal of Hydrology*, **2016**, 539, 625-639	6	30
46	Optimal Crop Planning and Conjunctive Use of Surface Water and Groundwater Resources Using Fuzzy Dynamic Programming. *Journal of Irrigation and Drainage Engineering - ASCE*, **2011**, 137, 383-397	1.1	29
45	Multi-Objective Planning for Conjunctive Use of Surface and Ground Water Resources Using Genetic Programming. *Water Resources Management*, **2019**, 33, 2123-2137	3.7	26
44	A modified regionalization weighting approach for climate change impact assessment at watershed scale. *Theoretical and Applied Climatology*, **2015**, 122, 497-516	3	25
43	Conjunctive use of surface and ground water resources using the ant system optimization. *Agricultural Water Management*, **2016**, 173, 23-34	5.9	25
42	A Hybrid Fuzzy-Based Multi-Objective PSO Algorithm for Conjunctive Water Use and Optimal Multi-Crop Pattern Planning. *Water Resources Management*, **2017**, 31, 1139-1155	3.7	24
41	Optimal Reservoir Operation Based on Conjunctive Use of Surface Water and Groundwater Using Neuro-Fuzzy Systems. *Water Resources Management*, **2013**, 27, 4259-4275	3.7	24
40	Evaluation of the Effects of Climate Change on Groundwater Recharge Using a Hybrid Method. *Water Resources Management*, **2016**, 30, 133-148	3.7	22
39	Wavelet and cuckoo search-support vector machine conjugation for drought forecasting using Standardized Precipitation Index (case study: Urmia Lake, Iran). *Journal of Hydroinformatics*, **2018**, 20, 975-988	2.6	19
38	Social resolution of conflicts over water resources allocation in a river basin using cooperative game theory approaches: a case study. *International Journal of River Basin Management*, **2016**, 14, 33-45	1.7	17
37	Development of a New Drought Index for Groundwater and Its Application in Sustainable Groundwater Extraction. *Journal of Water Resources Planning and Management - ASCE*, **2016**, 142, 04016032	2.8	16

36	SOM-DRASTIC: using self-organizing map for evaluating groundwater potential to pollution. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 1941-1956	3.5	13
35	Integrated Simulation-Optimization Framework for Water Allocation Based on Sustainability of Surface Water and Groundwater Resources. *Journal of Water Resources Planning and Management - ASCE*, **2021**, 147, 05021001	2.8	12
34	GuASPSO: a new approach to hold a better exploration–exploitation balance in PSO algorithm. *Soft Computing*, **2020**, 24, 4855-4875	3.5	11
33	Conjunctive Management of Surface and Ground Water Resources Using Conflict Resolution Approach. *Journal of Irrigation and Drainage Engineering - ASCE*, **2016**, 142, 05016001	1.1	10
32	Conjunctive Use of Surface Water and Groundwater Resources under Deficit Irrigation. *Journal of Irrigation and Drainage Engineering - ASCE*, **2017**, 143, 05016012	1.1	10
31	Optimization of sewer networks using the mixed-integer linear programming. *Urban Water Journal*, **2017**, 14, 452-459	2.3	9
30	Consideration of Climate Conditions in Reservoir Operation Using Fuzzy Inference System (FIS). *British Journal of Environment and Climate Change*, **2013**, 3, 444-463		9
29	Integrated river basin planning and management: a case study of the Zayandehrud River basin, Iran. *Water International*, **2013**, 38, 724-743	2.4	7
28	Risk assessment of an industrial wastewater treatment and reclamation plant using the bow-tie method. *Environmental Monitoring and Assessment*, **2019**, 192, 33	3.1	7
27	Assessment of climate change impacts on climate variables using probabilistic ensemble modeling and trend analysis. *Theoretical and Applied Climatology*, **2017**, 130, 635-653	3	6
26	Climate Change Impacts on Some Hydrological Variables in the Zayandeh-Rud River Basin, Iran **2017** , 201-217		6
25	A dynamic model of water resources management using the scenario analysis technique in downstream of the Zayandehroud basin. *International Journal of River Basin Management*, **2019**, 17, 451-463	1.7	6
24	A new hybrid drought-monitoring framework based on nonparametric standardized indicators **2018**, 49, 222-236		5
23	An Enhanced Grey Wolf Optimizer with a Velocity-Aided Global Search Mechanism. *Mathematics*, **2022**, 10, 351	2.3	5
22	Trend analysis of hydrological and water quality variables to detect anthropogenic effects and climate variability on a river basin scale: A case study of Iran. *Journal of Hydro-Environment Research* , **2021**, 34, 11-23	2.3	5
21	A New Approach for Parameter Estimation of Autoregressive Models Using Adaptive Network-Based Fuzzy Inference System (ANFIS). *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, **2017**, 41, 317-327	1.1	4
20	Prediction and assessment of drought effects on surface water quality using artificial neural networks: case study of Zayandehrud River, Iran. *Journal of Environmental Health Science & Engineering*, **2015**, 13, 68	2.9	4
19	f-MOPSO/Div: an improved extreme-point-based multi-objective PSO algorithm applied to a socio-economic-environmental conjunctive water use problem. *Environmental Monitoring and Assessment*, **2020**, 192, 767	3.1	4

18	Sustainable Conjunctive Water Use Modeling Using Dual Fitness Particle Swarm Optimization Algorithm. *Water Resources Management*, **2022**, 36, 989	3.7	3
17	Simulating the interactions between the water and the socio-economic system in a stressed endorheic basin. *Hydrological Sciences Journal*, **2020**, 65, 2159-2174	3.5	3
16	Resolving water allocation conflicts using WEAP simulation model and non-cooperative game theory. *Simulation*, **2020**, 96, 17-30	1.2	3
15	Assessment of the optimized scenarios for economic-environmental conjunctive water use utilizing gravitational search algorithm. *Agricultural Water Management*, **2021**, 246, 106688	5.9	3
14	Multi-objective optimization for optimal extraction of groundwater from a nitrate-contaminated aquifer considering economic-environmental issues: A case study. *Journal of Contaminant Hydrology*, **2021**, 241, 103806	3.9	3
13	Improving Performance Criteria in the Water Resource Systems Based on Fuzzy Approach. *Water Resources Management*, **2021**, 35, 593-611	3.7	3
12	Forensic engineering analysis applied to flood control. *Journal of Hydrology*, **2021**, 594, 125961	6	2
11	Fusion-based framework for meteorological drought modeling using remotely sensed datasets under climate change scenarios: Resilience, vulnerability, and frequency analysis. *Journal of Environmental Management*, **2021**, 297, 113283	7.9	2
10	Relationship of Drought and Engineered Water Supply: Multivariate Index for Quantifying Sustained Water Stress in Anthropogenically Affected Subbasins. *Journal of Hydrologic Engineering - ASCE*, **2019**, 24, 04019013	1.8	1
9	Integrated Stormwater and Groundwater Management in Urban Areas, a Case Study. *International Journal of Civil Engineering*, **2019**, 17, 1281-1294	1.9	1
8	Application of meteorological drought for assessing watershed health using fuzzy-based reliability, resilience, and vulnerability. *International Journal of Disaster Risk Reduction*, **2021**, 66, 102616	4.5	1
7	Comparison between bivariate and trivariate flood frequency analysis using the Archimedean copula functions, a case study of the Karun River in Iran. *Natural Hazards*,1	3	0
6	Assessment of the management scenarios for groundwater quality remediation of a nitrate-contaminated aquifer. *Environmental Monitoring and Assessment*, **2021**, 193, 190	3.1	0
5	Maximizing Sustainability in Reservoir Operation under Climate Change Using a Novel Adaptive Accelerated Gravitational Search Algorithm. *Water (Switzerland)*, **2022**, 14, 905	3	0
4	An improved MOPSO algorithm for multi-objective optimization of reservoir operation under climate change.. *Environmental Monitoring and Assessment*, **2022**, 194, 261	3.1	0
3	Closure to "Conjunctive Management of Surface and Ground Water Resources Using Conflict Resolution Approach" by Hamid R. Safavi, Milad Mehrparvar, and Ferenc Szidarovszky. *Journal of Irrigation and Drainage Engineering - ASCE*, **2017**, 143, 07017002	1.1	
2	Optimization of Water Distribution Networks Using a New Entropy-based Mixed Reliability Index and a Fuzzy-based Constraint Handling Technique. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*,1	1.1	
1	Development of System Dynamics for Holistic Conceptualization of Water Resources Problems Using Grounded Theory: A Case Study of the Zayandehrud River Basin. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, **2021**, 45, 413-428	1.1	