

# Banafsheh Zahraie

## List of Publications by Year in descending order

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65  
papers

1,537  
citations

331670  
21  
h-index

345221  
36  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1562  
citing authors

#	ARTICLE	IF	CITATIONS
1	System dynamics modeling for assessment of waterâ€“foodâ€“energy resources security and nexus in Gavkhuni basin in Iran. Ecological Indicators, 2020, 108, 105682.	6.3	102
2	Developing a master plan for hospital solid waste management: A case study. Waste Management, 2007, 27, 626-638.	7.4	86
3	Monthly Water Resources and Irrigation Planning: Case Study of Conjunctive Use of Surface and Groundwater Resources. Journal of Irrigation and Drainage Engineering - ASCE, 2004, 130, 391-402.	1.0	77
4	Ranking solutions of multi-objective reservoir operation optimization models using multi-criteria decision analysis. Expert Systems With Applications, 2011, 38, 7851-7863.	7.6	77
5	Stochastic Time-Cost-Resource Utilization Optimization Using Nondominated Sorting Genetic Algorithm and Discrete Fuzzy Sets. Journal of Construction Engineering and Management - ASCE, 2009, 135, 1162-1171.	3.8	75
6	Developing monthly operating rules for a cascade system of reservoirs: Application of Bayesian Networks. Environmental Modelling and Software, 2009, 24, 1420-1432.	4.5	72
7	Integration of ELECTRE III and PROMETHEE II Decision-Making Methods with an Interval Approach: Application in Selection of Appropriate Structural Systems. Journal of Computing in Civil Engineering, 2014, 28, 297-314.	4.7	58
8	Improved statistical downscaling of daily precipitation using <scp>SDSM</scp> platform and dataâ€“mining methods. International Journal of Climatology, 2013, 33, 2561-2578.	3.5	54
9	Integrated risk assessment of urban water supply systems from source to tap. Stochastic Environmental Research and Risk Assessment, 2013, 27, 923-944.	4.0	51
10	Performance assessment of different data mining methods in statistical downscaling of daily precipitation. Journal of Hydrology, 2013, 492, 1-14.	5.4	50
11	A real-time operation optimization model for flood management in river-reservoir systems. Natural Hazards, 2010, 53, 459-482.	3.4	48
12	Development of a Master Plan for Water Pollution Control Using MCDM Techniques: A Case Study. Water International, 2003, 28, 478-490.	1.0	46
13	PROMETHEE with Precedence Order in the Criteria (PPOC) as a New Group Decision Making Aid: An Application in Urban Water Supply Management. Water Resources Management, 2012, 26, 3581-3599.	3.9	40
14	A Comparison of AHP and PROMETHEE Family Decision Making Methods for Selection of Building Structural System. American Journal of Civil Engineering and Architecture, 2014, 2, 149-159.	0.2	34
15	Development of reservoir operation policies considering variable agricultural water demands. Expert Systems With Applications, 2009, 36, 4980-4987.	7.6	30
16	Evaluation of spatial and spatiotemporal estimation methods in simulation of precipitation variability patterns. Theoretical and Applied Climatology, 2013, 113, 429-444.	2.8	29
17	Seasonal Streamflow Forecasting Using Snow Budget and El NiÃ±o-Southern Oscillation Climate Signals: Application to the Salt River Basin in Arizona. Journal of Hydrologic Engineering - ASCE, 2004, 9, 523-533.	1.9	28
18	An economic-operational framework for optimum agricultural water distribution in irrigation districts without water marketing. Agricultural Water Management, 2019, 221, 348-361.	5.6	27

#	ARTICLE	IF	CITATIONS
19	Selecting Sustainability Indicators for Small to Medium Sized Urban Water Systems Using Fuzzyâ€ELECTRE. Water Environment Research, 2017, 89, 238-249.	2.7	26
20	Integrating discrete event simulation and genetic algorithm optimization for bridge maintenance planning. Automation in Construction, 2021, 122, 103513.	9.8	26
21	Stacking machine learning models versus a locally weighted linear model to generate high-resolution monthly precipitation over a topographically complex area. Atmospheric Research, 2022, 272, 106159.	4.1	24
22	Monthly water balance modeling: Probabilistic, possibilistic and hybrid methods for model combination and ensemble simulation. Journal of Hydrology, 2014, 511, 675-691.	5.4	23
23	Application of simple clustering on spaceâ€time mapping of mean monthly rainfall pattern. International Journal of Climatology, 2011, 31, 732-741.	3.5	21
24	Uncertainty assessment of hydrological models with fuzzy extension principle: Evaluation of a new arithmetic operator. Water Resources Research, 2014, 50, 1095-1111.	4.2	20
25	Improved Inflow Modeling in Stochastic Dual Dynamic Programming. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	20
26	Decision Support System for Monthly Operation of Hydropower Reservoirs: A Case Study. Journal of Computing in Civil Engineering, 2005, 19, 194-207.	4.7	19
27	Identification of long-term annual pattern of meteorological drought based on spatiotemporal methods: evaluation of different geostatistical approaches. Natural Hazards, 2015, 76, 515-541.	3.4	18
28	AN INTEGRATED APPROACH TO WATER RESOURCES DEVELOPMENT OF THE TEHRAN REGION IN IRAN. Journal of the American Water Resources Association, 2001, 37, 1301-1311.	2.4	17
29	Monitoring and Evaluation Scheme using the Multiple-Criteria-Decision-Making Technique: Application to Irrigation Projects. Journal of Irrigation and Drainage Engineering - ASCE, 2002, 128, 341-350.	1.0	17
30	Uncertainty assessment of monthly water balance models based on Incremental Modified Fuzzy Extension Principle method. Journal of Hydroinformatics, 2013, 15, 1340-1360.	2.4	17
31	Risk based optimal design of detention dams considering uncertain inflows. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1457-1471.	4.0	15
32	Crop pattern and conjunctive use management: A case study. Irrigation and Drainage, 2010, 59, 161-173.	1.7	14
33	Relationship between benthic macroinvertebrate bio-indices and physicochemical parameters of water: a tool for water resources managers. Journal of Environmental Health Science & Engineering, 2014, 12, 30.	3.0	13
34	Exploring spatiotemporal meteorological correlations for basin scale meteorological drought forecasting using data mining methods. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	13
35	Localized linear regression methods for estimating monthly precipitation grids using elevation, rain gauge, and TRMM data. Theoretical and Applied Climatology, 2020, 142, 623-641.	2.8	13
36	Reservoir operation optimization using adaptive varying chromosome length genetic algorithm. Water International, 2008, 33, 380-391.	1.0	12

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37	SST clustering for winter precipitation prediction in southeast of Iran: Comparison between modified K-means and genetic algorithm-based clustering methods. <i>Expert Systems With Applications</i> , 2011, 38, 5919-5929.	7.6	10
38	Improvement of multiple linear regression method for statistical downscaling of monthly precipitation. <i>International Journal of Environmental Science and Technology</i> , 2018, 15, 1897-1912.	3.5	10
39	Economic analysis of Water-Food-Energy Nexus in Gavkhuni basin in Iran. <i>Journal of Hydro-Environment Research</i> , 2020, 31, 14-25.	2.2	10
40	Coupling snow accumulation and melt rate modules of monthly water balance models with the Jazim monthly water balance model. <i>Hydrological Sciences Journal</i> , 2017, 62, 2348-2368.	2.6	8
41	Assessment of the Impacts of Sewerage Network on Groundwater Quantity and Nitrate Contamination: Case Study of Tehran. , 2020, , .		8
42	System Dynamics Modeling of Water-Energy Nexus for Resource-Saving Policy Assessment. <i>International Journal of Environmental Research</i> , 2021, 15, 349-367.	2.3	8
43	Construction and resource short-term planning using a BIM-based ontological decision support system. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 75-88.	1.3	7
44	An intelligent simulation-based framework for automated planning of concrete construction works. <i>Engineering, Construction and Architectural Management</i> , 2022, 29, 916-939.	3.1	7
45	Development of a master plan for industrial solid waste management. <i>International Journal of Environmental Science and Technology</i> , 2006, 3, 229-242.	3.5	6
46	Application of Multi-Objective Particle Swarm Optimization in Operation Management of Reservoirs with Sedimentation Problems. , 2010, , .		6
47	A comparison between direct and indirect frameworks to evaluate impacts of climate change on streamflows: case study of Karkheh River basin in Iran. <i>Journal of Water and Climate Change</i> , 2017, 8, 652-674.	2.9	6
48	Performance evaluation of various evapotranspiration modeling scenarios based on METRIC method and climatic indexes. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 111.	2.7	6
49	Reservoir Operation Optimization: A Nonstructural Solution for Control of Seepage from Lar Reservoir in Iran. <i>Water International</i> , 2003, 28, 19-26.	1.0	5
50	Optimization of Nonlinear Muskingum Method with Variable Parameters Using Multi-Objective Particle Swarm Optimization. , 2010, , .		5
51	Spatial Scale Resolution of Prognostic Hydrological Models: Simulation Performance and Application in Climate Change Impact Assessment. <i>Water Resources Management</i> , 2019, 33, 189-205.	3.9	5
52	Quantitative and qualitative analysis of the dimensions of farmers' adaptive capacity in the face of water scarcity. <i>Journal of Arid Environments</i> , 2022, 199, 104715.	2.4	5
53	Role of Social Network Measurements in Improving Adaptive Capacity: The Case of Agricultural Water Users in Rural Areas of Western Iran. <i>Society and Natural Resources</i> , 2021, 34, 1338-1357.	1.9	4
54	Automated Planning of Building Construction Considering the Amount of Available Floor Formwork. , 2016, , .		3

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55	Optimal Wastewater Loading under Conflicting Goals and Technology Limitations in a Riverine System. Water Environment Research, 2017, 89, 211-220.	2.7	3
56	Seasonal Precipitation Prediction Using Large Scale Climate Signals. , 2004, , 1.		2
57	Evaluation of Water Sector Performance: A Case Study. , 2005, , 1.		2
58	Multi-Objective VLGA Model for Flood Control and Water Supply Management in a Cascade System of Reservoirs. , 2008, , .		2
59	Framework of a Decision Support System for Basin-Scale Sustainable Water Supply and Demand Management. , 2008, , .		2
60	An Ontological Framework for Identification of Construction Resources Using BIM Information. , 2018, , .		2
61	SEASONAL PRECIPITATION FORECASTING USING LARGE SCALE CLIMATE SIGNALS: APPLICATION TO THE KAROON RIVER BASIN IN IRAN. , 2004, , 1221-1228.		2
62	Optimizing the Selection and Layout of Table Forms with Different Dimensions Using BIM and Integer Programming. , 2016, , .		1
63	A Decision Support System for Hydropower Reservoirs with Application to Dez and Karoon System in Iran. , 2001, , 1.		0
64	Climate Signal Clustering Using Genetic Algorithm for Precipitation Forecasting: A Case Study of Southeast of Iran. , 2007, , .		0
65	Stochastic VLGA Model for Operation Optimization of Cascade Reservoirs. , 2008, , .		0