

# Bahram Choubin

## 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.

49  
papers

2,193  
citations

28  
h-index

46  
g-index

49  
ext. papers

3,057  
ext. citations

5.1  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
49	An ensemble prediction of flood susceptibility using multivariate discriminant analysis, classification and regression trees, and support vector machines. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 2087-2096	10.2	303
48	Urban flood risk mapping using the GARP and QUEST models: A comparative study of machine learning techniques. <i>Journal of Hydrology</i> , <b>2019</b> , 569, 142-154	6	174
47	A novel machine learning-based approach for the risk assessment of nitrate groundwater contamination. <i>Science of the Total Environment</i> , <b>2018</b> , 644, 954-962	10.2	152
46	River suspended sediment modelling using the CART model: A comparative study of machine learning techniques. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 272-281	10.2	142
45	Flash-flood hazard assessment using ensembles and Bayesian-based machine learning models: Application of the simulated annealing feature selection method. <i>Science of the Total Environment</i> , <b>2020</b> , 711, 135161	10.2	110
44	Predicting uncertainty of machine learning models for modelling nitrate pollution of groundwater using quantile regression and UNEEC methods. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 855-866	10.2	89
43	Integrated machine learning methods with resampling algorithms for flood susceptibility prediction. <i>Science of the Total Environment</i> , <b>2020</b> , 705, 135983	10.2	79
42	Multiple linear regression, multi-layer perceptron network and adaptive neuro-fuzzy inference system for forecasting precipitation based on large-scale climate signals. <i>Hydrological Sciences Journal</i> , <b>2016</b> , 61, 1001-1009	3.5	74
41	Drought forecasting in a semi-arid watershed using climate signals: a neuro-fuzzy modeling approach. <i>Journal of Mountain Science</i> , <b>2014</b> , 11, 1593-1605	2.1	67
40	Snow avalanche hazard prediction using machine learning methods. <i>Journal of Hydrology</i> , <b>2019</b> , 577, 123929	6	62
39	Combined gamma and M-test-based ANN and ARIMA models for groundwater fluctuation forecasting in semiarid regions. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	59
38	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. <i>Science of the Total Environment</i> , <b>2020</b> , 701, 134474	10.2	58
37	Precipitation forecasting using classification and regression trees (CART) model: a comparative study of different approaches. <i>Environmental Earth Sciences</i> , <b>2018</b> , 77, 1	2.9	52
36	Spatial prediction of soil erosion susceptibility using a fuzzy analytical network process: Application of the fuzzy decision making trial and evaluation laboratory approach. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 3092-3103	4.4	50
35	Ensemble Boosting and Bagging Based Machine Learning Models for Groundwater Potential Prediction. <i>Water Resources Management</i> , <b>2021</b> , 35, 23-37	3.7	49
34	Incorporating synoptic-scale climate signals for streamflow modelling over the Mediterranean region using machine learning models. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 1240-1252	3.5	43
33	Evaluation of watershed health using Fuzzy-ANP approach considering geo-environmental and topo-hydrological criteria. <i>Journal of Environmental Management</i> , <b>2019</b> , 232, 22-36	7.9	41

32	Application of several data-driven techniques to predict a standardized precipitation index. <i>Atmosfera</i> , <b>2016</b> , 29, 121	2.5	40
31	Ensemble models of GLM, FDA, MARS, and RF for flood and erosion susceptibility mapping: a priority assessment of sub-basins. <i>Geocarto International</i> , <b>2020</b> , 1-20	2.7	39
30	Earth fissure hazard prediction using machine learning models. <i>Environmental Research</i> , <b>2019</b> , 179, 108770	2.7	37
29	An ensemble forecast of semi-arid rainfall using large-scale climate predictors. <i>Meteorological Applications</i> , <b>2017</b> , 24, 376-386	2.1	36
28	Long-term precipitation forecast for drought relief using atmospheric circulation factors: a study on the Maharloo Basin in Iran. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 1995-2006	5.5	36
27	Watershed classification by remote sensing indices: A fuzzy c-means clustering approach. <i>Journal of Mountain Science</i> , <b>2017</b> , 14, 2053-2063	2.1	35
26	Susceptibility Mapping of Soil Water Erosion Using Machine Learning Models. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1995	3	34
25	Incorporating multi-criteria decision-making and fuzzy-value functions for flood susceptibility assessment. <i>Geocarto International</i> , <b>2019</b> , 1-21	2.7	34
24	Contribution of climatic variability and human activities to stream flow changes in the Haraz River basin, northern Iran. <i>Journal of Hydro-Environment Research</i> , <b>2019</b> , 25, 12-24	2.3	31
23	Streamflow regionalization using a similarity approach in ungauged basins: Application of the geo-environmental signatures in the Karkheh River Basin, Iran. <i>Catena</i> , <b>2019</b> , 182, 104128	5.8	28
22	Susceptibility Prediction of Groundwater Hardness Using Ensemble Machine Learning Models. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2770	3	28
21	Mass wasting susceptibility assessment of snow avalanches using machine learning models. <i>Scientific Reports</i> , <b>2020</b> , 10, 18363	4.9	23
20	Towards an Ensemble Machine Learning Model of Random Subspace Based Functional Tree Classifier for Snow Avalanche Susceptibility Mapping. <i>IEEE Access</i> , <b>2020</b> , 8, 145968-145983	3.5	21
19	Susceptibility mapping of groundwater salinity using machine learning models. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 10804-10817	5.1	21
18	Groundwater Salinity Susceptibility Mapping Using Classifier Ensemble and Bayesian Machine Learning Models. <i>IEEE Access</i> , <b>2020</b> , 8, 145564-145576	3.5	20
17	Drought modeling: a comparative study between time series and neuro-fuzzy approaches. <i>Arabian Journal of Geosciences</i> , <b>2018</b> , 11, 1	1.8	18
16	Application of Fuzzy Analytical Network Process Model for Analyzing the Gully Erosion Susceptibility. <i>Advances in Natural and Technological Hazards Research</i> , <b>2019</b> , 105-125	1.8	17
15	Regional Groundwater Potential Analysis Using Classification and Regression Trees <b>2019</b> , 485-498		13

14	Towards a flood vulnerability assessment of watershed using integration of decision-making trial and evaluation laboratory, analytical network process, and fuzzy theories. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 62487-62498	5.1	11
13	Evaluating urban flood risk using hybrid method of TOPSIS and machine learning. <i>International Journal of Disaster Risk Reduction</i> , <b>2021</b> , 66, 102614	4.5	11
12	A novel bias correction framework of TMPA 3B42 daily precipitation data using similarity matrix/homogeneous conditions. <i>Science of the Total Environment</i> , <b>2019</b> , 694, 133680	10.2	9
11	Applying the remotely sensed data to identify homogeneous regions of watersheds using a pixel-based classification approach. <i>Applied Geography</i> , <b>2019</b> , 111, 102071	4.4	8
10	Spatiotemporal dynamics assessment of snow cover to infer snowline elevation mobility in the mountainous regions. <i>Cold Regions Science and Technology</i> , <b>2019</b> , 167, 102870	3.8	7
9	Newly explored machine learning model for river flow time series forecasting at Mary River, Australia. <i>Environmental Monitoring and Assessment</i> , <b>2020</b> , 192, 761	3.1	7
8	Fuzzy clustering and distributed model for streamflow estimation in ungauged watersheds. <i>Scientific Reports</i> , <b>2021</b> , 11, 8243	4.9	7
7	Application of Bayesian Regularized Neural Networks for Groundwater Level Modeling <b>2020</b> ,		5
6	Development of a New Integrated Framework for Improved Rainfall-Runoff Modeling under Climate Variability and Human Activities. <i>Water Resources Management</i> , <b>2019</b> , 33, 2501-2515	3.7	3
5	Groundwater potential mapping using hybridization of simulated annealing and random forest <b>2021</b> , 391-403		3
4	Accuracy assessment of remotely sensed data to analyze lake water balance in semi-arid region. <i>Science of the Total Environment</i> , <b>2021</b> , 797, 149034	10.2	3
3	Effects of large-scale climate signals on snow cover in Khersan watershed, Iran <b>2019</b> , 1-10		2
2	Effects of drought on vegetative cover changes: Investigating spatiotemporal patterns <b>2019</b> , 213-222		2
1	Urban Flood-Risk Assessment: Integration of Decision-Making and Machine Learning. <i>Sustainability</i> , <b>2022</b> , 14, 4483	3.6	0