

# Rahim Barzegar

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,153  
citations

236925

25  
h-index

265206

42  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1736  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term water quality variable prediction using a hybrid CNN-LSTM deep learning model. Stochastic Environmental Research and Risk Assessment, 2020, 34, 415-433.	4.0	231
2	Forecasting of groundwater level fluctuations using ensemble hybrid multi-wavelet neural network-based models. Science of the Total Environment, 2017, 599-600, 20-31.	8.0	150
3	Application of wavelet-artificial intelligence hybrid models for water quality prediction: a case study in Aji-Chay River, Iran. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1797-1819.	4.0	135
4	Mapping groundwater contamination risk of multiple aquifers using multi-model ensemble of machine learning algorithms. Science of the Total Environment, 2018, 621, 697-712.	8.0	134
5	Design and implementation of a hybrid model based on two-layer decomposition method coupled with extreme learning machines to support real-time environmental monitoring of water quality parameters. Science of the Total Environment, 2019, 648, 839-853.	8.0	123
6	Coupling a hybrid CNN-LSTM deep learning model with a Boundary Corrected Maximal Overlap Discrete Wavelet Transform for multiscale Lake water level forecasting. Journal of Hydrology, 2021, 598, 126196.	5.4	96
7	Multi-step water quality forecasting using a boosting ensemble multi-wavelet extreme learning machine model. Stochastic Environmental Research and Risk Assessment, 2018, 32, 799-813.	4.0	83
8	Assessing the potential origins and human health risks of trace elements in groundwater: A case study in the Khoy plain, Iran. Environmental Geochemistry and Health, 2019, 41, 981-1002.	3.4	83
9	Identification of hydrogeochemical processes and pollution sources of groundwater resources in the Marand plain, northwest of Iran. Environmental Earth Sciences, 2017, 76, 1.	2.7	81
10	Comparison of machine learning models for predicting fluoride contamination in groundwater. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2705-2718.	4.0	78
11	Combining the advantages of neural networks using the concept of committee machine in the groundwater salinity prediction. Modeling Earth Systems and Environment, 2016, 2, 1.	3.4	71
12	Heavy Metal(loid)s in the Groundwater of Shabestar Area (NW Iran): Source Identification and Health Risk Assessment. Exposure and Health, 2019, 11, 251-265.	4.9	68
13	Assessing the hydrogeochemistry and water quality of the Aji-Chay River, northwest of Iran. Environmental Earth Sciences, 2016, 75, 1.	2.7	67
14	A supervised committee machine artificial intelligent for improving DRASTIC method to assess groundwater contamination risk: a case study from Tabriz plain aquifer, Iran. Stochastic Environmental Research and Risk Assessment, 2016, 30, 883-899.	4.0	65
15	Comparative evaluation of artificial intelligence models for prediction of uniaxial compressive strength of travertine rocks, Case study: Azarshahr area, NW Iran. Modeling Earth Systems and Environment, 2016, 2, 1.	3.4	46
16	Improving GALDIT-based groundwater vulnerability predictive mapping using coupled resampling algorithms and machine learning models. Journal of Hydrology, 2021, 598, 126370.	5.4	46
17	Assessment of heavy metals concentrations with emphasis on arsenic in the Tabriz plain aquifers, Iran. Environmental Earth Sciences, 2015, 74, 297-313.	2.7	42
18	Delimitation of groundwater zones under contamination risk using a bagged ensemble of optimized DRASTIC frameworks. Environmental Science and Pollution Research, 2019, 26, 8325-8339.	5.3	40

#	ARTICLE	IF	CITATIONS
19	Characterization of hydrogeologic properties of the Tabriz plain multilayer aquifer system, NW Iran. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	39
20	Using bootstrap ELM and LSSVM models to estimate river ice thickness in the Mackenzie River Basin in the Northwest Territories, Canada. Journal of Hydrology, 2019, 577, 123903.	5.4	39
21	An ensemble tree-based machine learning model for predicting the uniaxial compressive strength of travertine rocks. Neural Computing and Applications, 2020, 32, 9065-9080.	5.6	39
22	Hydrogeochemistry and water quality of the Kordkandi-Duzdüzan plain, NW Iran: application of multivariate statistical analysis and PoS index. Environmental Monitoring and Assessment, 2017, 189, 455.	2.7	34
23	Risk assessment and ranking of heavy metals concentration in Iran's Rayen groundwater basin using linear assignment method. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1317-1336.	4.0	34
24	Characterization and Assessment of Groundwater Resources in a Complex Hydrological Basin of Central Greece (Kopaida basin) with the Joint Use of Hydrogeochemical Analysis, Multivariate Statistics and Stable Isotopes. Aquatic Geochemistry, 2017, 23, 271-298.	1.3	32
25	Hydrogeochemical features of groundwater resources in Tabriz plain, northwest of Iran. Applied Water Science, 2017, 7, 3997-4011.	5.6	31
26	Stochastic Modeling of Groundwater Fluoride Contamination: Introducing Lazy Learners. Ground Water, 2020, 58, 723-734.	1.3	29
27	Improving daily stochastic streamflow prediction: comparison of novel hybrid data-mining algorithms. Hydrological Sciences Journal, 2021, 66, 1457-1474.	2.6	29
28	Evidence for the occurrence of hydrogeochemical processes in the groundwater of Khoy plain, northwestern Iran, using ionic ratios and geochemical modeling. Environmental Earth Sciences, 2018, 77, 1.	2.7	27
29	Multivariate statistics and hydrogeochemical modeling for source identification of major elements and heavy metals in the groundwater of Qareh-Ziaeddin plain, NW Iran. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	26
30	Natural and anthropogenic origins of selected trace elements in the surface waters of Tabriz area, Iran. Environmental Earth Sciences, 2019, 78, 1.	2.7	25
31	Modification of the DRASTIC Framework for Mapping Groundwater Vulnerability Zones. Ground Water, 2020, 58, 441-452.	1.3	25
32	Optimizing the DRASTIC vulnerability approach to overcome the subjectivity: a case study from Shabestar plain, Iran. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	20
33	Developing a SINTACS-based method to map groundwater multi-pollutant vulnerability using evolutionary algorithms. Environmental Science and Pollution Research, 2021, 28, 7854-7869.	5.3	20
34	Predictive modeling of selected trace elements in groundwater using hybrid algorithms of iterative classifier optimizer. Journal of Contaminant Hydrology, 2021, 242, 103849.	3.3	16
35	Exploring the hydrogeochemical evolution of cold and thermal waters in the Sarein-Nir area, Iran using stable isotopes ( $\delta^{18}\text{O}$ and $\delta^2\text{D}$ ), geothermometry and multivariate statistical approaches. Geothermics, 2020, 85, 101815.	3.4	13
36	Mapping Risk to Land Subsidence: Developing a Two-Level Modeling Strategy by Combining Multi-Criteria Decision-Making and Artificial Intelligence Techniques. Water (Switzerland), 2021, 13, 2622.	2.7	10

#	ARTICLE	IF	CITATIONS
37	Effect of Elevation on Variation in Reference Evapotranspiration under Climate Change in Northwest China. Sustainability, 2021, 13, 10151.	3.2	8
38	Introducing dynamic land subsidence index based on the ALPRIFT framework using artificial intelligence techniques. Earth Science Informatics, 2022, 15, 1007-1021.	3.2	8
39	A country-wide assessment of Iran's land subsidence susceptibility using satellite-based InSAR and machine learning. Geocarto International, 2022, 37, 14065-14087.	3.5	4
40	Multi-step ahead soil temperature forecasting at different depths based on meteorological data: Integrating resampling algorithms and machine learning models. Pedosphere, 2023, 33, 479-495.	4.0	2
41	Comparing the Soil Conservation Service model with new machine learning algorithms for predicting cumulative infiltration in semi-arid regions. Pedosphere, 2022, 32, 718-732.	4.0	1