

# Mehdi vafakhah

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,536  
citations

393982

19  
h-index

315357

38  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Landslide susceptibility mapping at Vaz Watershed (Iran) using an artificial neural network model: a comparison between multilayer perceptron (MLP) and radial basic function (RBF) algorithms. <i>Arabian Journal of Geosciences</i> , 2013, 6, 2873-2888.	0.6	315
2	A Wavelet-ANFIS Hybrid Model for Groundwater Level Forecasting for Different Prediction Periods. <i>Water Resources Management</i> , 2013, 27, 1301-1321.	1.9	187
3	Application of Several Data-Driven Techniques for Predicting Groundwater Level. <i>Water Resources Management</i> , 2013, 27, 419-432.	1.9	111
4	Development and analysis of the Soil Water Infiltration Global database. <i>Earth System Science Data</i> , 2018, 10, 1237-1263.	3.7	85
5	Flood susceptibility assessment using extreme gradient boosting (EGB), Iran. <i>Earth Science Informatics</i> , 2021, 14, 51-67.	1.6	59
6	Optimization of Wavelet-ANFIS and Wavelet-ANN Hybrid Models by Taguchi Method for Groundwater Level Forecasting. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 1785-1796.	1.1	47
7	Improving runoff behavior resulting from direct inoculation of soil micro-organisms. <i>Soil and Tillage Research</i> , 2017, 171, 35-41.	2.6	47
8	Evaluating the support vector machine for suspended sediment load forecasting based on gamma test. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	44
9	Comparison of cokriging and adaptive neuro-fuzzy inference system models for suspended sediment load forecasting. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3003-3018.	0.6	42
10	Comparing performance of random forest and adaptive neuro-fuzzy inference system data mining models for flood susceptibility mapping. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	38
11	Spatiotemporal mapping of rainfall erosivity index for different return periods in Iran. <i>Natural Hazards</i> , 2017, 87, 35-56.	1.6	37
12	Regional flood frequency analysis using support vector regression in arid and semi-arid regions of Iran. <i>Hydrological Sciences Journal</i> , 2018, 63, 426-440.	1.2	35
13	Application of artificial neural networks and adaptive neuro-fuzzy inference system models to short-term streamflow forecasting. <i>Canadian Journal of Civil Engineering</i> , 2012, 39, 402-414.	0.7	34
14	Water Resources Management Through Flood Spreading Project Suitability Mapping Using Frequency Ratio, k-nearest Neighbours, and Random Forest Algorithms. <i>Natural Resources Research</i> , 2020, 29, 1915-1933.	2.2	30
15	Groundwater Augmentation through the Site Selection of Floodwater Spreading Using a Data Mining Approach (Case study: Mashhad Plain, Iran). <i>Water (Switzerland)</i> , 2018, 10, 1405.	1.2	26
16	Which one is more important in daily runoff forecasting using data driven models: Input data, model type, preprocessing or data length?. <i>Journal of Hydrology</i> , 2022, 606, 127429.	2.3	24
17	Hydrology modelling in Taleghan mountainous watershed using SWAT. <i>Journal of Water and Land Development</i> , 2014, 20, 11-18.	0.9	23
18	Regional Flood Frequency Analysis Through Some Machine Learning Models in Semi-arid Regions. <i>Water Resources Management</i> , 2020, 34, 2887-2909.	1.9	23

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19	Novel Bayesian Additive Regression Tree Methodology for Flood Susceptibility Modeling. <i>Water Resources Management</i> , 2021, 35, 4621-4646.	1.9	23
20	Rainfall-runoff Modeling Using Support Vector Machine in Snow-Affected Watershed. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 4065-4076.	1.1	22
21	Snowmelt-runoff estimation using radiation SRM model in Taleghan watershed. <i>Environmental Earth Sciences</i> , 2015, 73, 993-1003.	1.3	19
22	Flood hazard mapping using synthesis hydraulic and geomorphic properties at watershed scale. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 1889-1900.	1.9	19
23	Regional Analysis of Flow Duration Curves through Support Vector Regression. <i>Water Resources Management</i> , 2020, 34, 283-294.	1.9	18
24	Hybrid XGboost model with various Bayesian hyperparameter optimization algorithms for flood hazard susceptibility modeling. <i>Geocarto International</i> , 2022, 37, 8273-8292.	1.7	18
25	Assessment of some homogeneous methods for the regional analysis of suspended sediment yield in the south and southeast of the Caspian Sea. <i>Journal of Earth System Science</i> , 2015, 124, 1247-1263.	0.6	16
26	Effects of type, level and time of sand and gravel mining on particle size distributions of suspended sediment. <i>International Soil and Water Conservation Research</i> , 2018, 6, 184-193.	3.0	16
27	Comparative prioritization of sub-watersheds based on Flood Generation potential using physical, hydrological and co-managerial approaches. <i>Water Resources Management</i> , 2022, 36, 1897-1917.	1.9	15
28	Assessing the health and ecological security of a human induced watershed in central iran. <i>Ecosystem Health and Sustainability</i> , 2022, 8, .	1.5	13
29	Hydrological stream flow modeling in the Talar catchment (central section of the Alborz Mountains.) <i>Tj ETQq1 1 0.784314 rgBT /Over Development</i> , 2016, 30, 57-69.	0.9	12
30	Regional Flood Frequency Analysis Using the FCM-ANFIS Algorithm: A Case Study in South-Eastern Australia. <i>Water (Switzerland)</i> , 2022, 14, 1608.	1.2	10
31	Application of MUSLE for the prediction of phosphorus losses. <i>Water Science and Technology</i> , 2010, 62, 809-815.	1.2	9
32	Spatial and temporal variability of soil moisture in relation with topographic and meteorological factors in south of Ardabil Province, Iran. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 500.	1.3	9
33	Determination of the Ability of HEC-HMS Model Components in Rainfall-run-off Simulation. <i>Research Journal of Environmental Sciences</i> , 2011, 5, 790-797.	0.5	9
34	Comparative effectiveness of different infiltration models in estimation of watershed flood hydrograph. <i>Paddy and Water Environment</i> , 2018, 16, 411-424.	1.0	8
35	Impact of Urbanization on Temporal Distribution Pattern of Storm Runoff Coefficient. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 595.	1.3	8
36	Regional flood frequency modeling: a comparative study among several data-driven models. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	8

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37	Regional Analysis of Flow Duration Curves Using Adaptive Neuro-Fuzzy Inference System. Journal of Hydrologic Engineering - ASCE, 2015, 20, 06015008.	0.8	7
38	Prediction of snow water equivalent using artificial neural network and adaptive neuro-fuzzy inference system with two sampling schemes in semi-arid region of Iran. Journal of Mountain Science, 2020, 17, 1712-1723.	0.8	7
39	A comparative assessment of adaptive neuro-fuzzy inference system, artificial neural network and regression for modelling stage-discharge relationship. International Journal of Hydrology Science and Technology, 2016, 6, 143.	0.2	6
40	Comparison of different targeting methods for watershed management practices implementation in Taleghan dam watershed, Iran. Water Science and Technology: Water Supply, 2016, 16, 1484-1496.	1.0	5
41	Application of artificial neural network and adaptive neuro-fuzzy inference system in streamflow forecasting. , 2021, , 171-191.		5
42	Flood hydrograph modeling using artificial neural network and adaptive neuro-fuzzy inference system based on rainfall components. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	5
43	Agricultural drought assessment using vegetation indices derived from MODIS time series in Tehran Province. Arabian Journal of Geosciences, 2022, 15, .	0.6	5
44	Modeling the Rainfall-Runoff Data in Snow-Affected Watershed. International Journal of Computer and Electrical Engineering, 0, , 40-43.	0.2	4
45	The effect of different sampling schemes on estimation precision of snow water equivalent (SWE) using geostatistics techniques in a semi-arid region of Iran. Geocarto International, 2020, 35, 1769-1782.	1.7	3
46	Spatial Resolution Effect of Remotely Sensed Data on Flood Hydrograph Simulation. Journal of the Indian Society of Remote Sensing, 2020, 48, 97-112.	1.2	3
47	Application of Intelligent Technology in Rainfall Analysis. , 2017, , 441-459.		3
48	The Relationship between Surface Water Quality and Watershed Characteristics. Journal of Civil Engineering and Construction, 2019, 8, 107-111.	0.4	3
49	Using an artificial neural network to model monthly shoreline variations. , 2011, , .		2
50	Evaluation of some probability distribution functions for derivation of unit hydrograph in the Bar Watershed, Iran. International Journal of Hydrology Science and Technology, 2018, 8, 134.	0.2	2
51	Spatial variations of runoff generation at watershed scale. International Journal of Environmental Science and Technology, 2019, 16, 3745-3760.	1.8	2
52	Assessment of non-monetary facilities in Urmia Lake basin under PES scheme: a rehabilitation solution for the dry lake in Iran. Environment, Development and Sustainability, 2021, 23, 10141-10172.	2.7	2
53	Modeling Snowmelt Runoff Under CMIP5 Scenarios in the Beheshtabad Watershed. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 1919-1927.	1.0	2
54	Spatiotemporal Variability of Snow Depth, Density, and Water Equivalent across Iran. Russian Meteorology and Hydrology, 2018, 43, 118-126.	0.2	1

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55	Evaluation of the Spatial Variability of Annual Precipitation Using Geostatistics in the Lorestan Province, Iran. <i>Current World Environment Journal</i> , 2015, 10, 1016-1023.	0.2	1
56	Assessment the Performance of Support Vector Machine and Artificial Neural Network Systems for Regional Flood Frequency Analysis (A Case Study: Namak Lake Watershed). <i>Journal of Water and Soil Science</i> , 2019, 23, 351-366.	0.0	1
57	Eco-hydrological estimation of event-based runoff coefficient using artificial intelligence models in Kasilian watershed, Iran. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1983-1996.	1.9	0
58	Regional Analysis of Low Flow in Karkheh and Karoon Watersheds. <i>Journal of Applied Sciences</i> , 2009, 9, 1141-1146.	0.1	0
59	Comparison of WetSpa Distributed Hydrological Model and Adaptive Neuro-Fuzzy Inference System for Rainfall-Runoff Modeling in Kasilian Watershed. <i>Journal of Water and Soil Science</i> , 2015, 19, 151-163.	0.0	0
60	Storm Runoff Coefficient Estimation Using Adaptive Neuro-Fuzzy Inference System in Barariyeh Watershed, Neishabour. <i>Journal of Water and Soil Science</i> , 2015, 19, 165-177.	0.0	0
61	Rainfall Prediction Using Time Series Analysis. , 2017, , 517-539.		0
62	Evaluation of some probability distribution functions for derivation of unit hydrograph in the Bar Watershed, Iran. <i>International Journal of Hydrology Science and Technology</i> , 2018, 8, 134.	0.2	0