Mehdi vafakhah

List of Publications by Year
in descending order

62	1,536	393982	315357
papers	citations	19 h-index	38 g-index

68	68	68	1710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid XGboost model with various Bayesian hyperparameter optimization algorithms for flood hazard susceptibility modeling. Geocarto International, 2022, 37, 8273-8292.	1.7	18
2	Which one is more important in daily runoff forecasting using data driven models: Input data, model type, preprocessing or data length?. Journal of Hydrology, 2022, 606, 127429.	2.3	24
3	Agricultural drought assessment using vegetation indices derived from MODIS time series in Tehran Province. Arabian Journal of Geosciences, 2022, 15, .	0.6	5
4	Comparative prioritization of sub-watersheds based on Flood Generation potential using physical, hydrological and co-managerial approaches. Water Resources Management, 2022, 36, 1897-1917.	1.9	15
5	Regional Flood Frequency Analysis Using the FCM-ANFIS Algorithm: A Case Study in South-Eastern Australia. Water (Switzerland), 2022, 14, 1608.	1.2	10
6	Assessing the health and ecological security of a human induced watershed in central iran. Ecosystem Health and Sustainability, 2022, 8, .	1.5	13
7	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
8	Flood susceptibility assessment using extreme gradient boosting (EGB), Iran. Earth Science Informatics, 2021, 14, 51-67.	1.6	59
9	Application of artificial neural network and adaptive neuro-fuzzy inference system in streamflow forecasting. , 2021, , 171-191.		5
10	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
11	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
12	Novel Bayesian Additive Regression Tree Methodology for Flood Susceptibility Modeling. Water Resources Management, 2021, 35, 4621-4646.	1.9	23
13	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
14	Water Resources Management Through Flood Spreading Project Suitability Mapping Using Frequency Ratio, k-nearest Neighbours, and Random Forest Algorithms. Natural Resources Research, 2020, 29, 1915-1933.	2.2	30
15	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
16	Regional Analysis of Flow Duration Curves through Support Vector Regression. Water Resources Management, 2020, 34, 283-294.	1.9	18
17	Eco-hydrological estimation of event-based runoff coefficient using artificial intelligence models in Kasilian watershed, Iran. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1983-1996.	1.9	0
18	Comparing performance of random forest and adaptive neuro-fuzzy inference system data mining models for flood susceptibility mapping. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	38

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19	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
20	Regional Flood Frequency Analysis Through Some Machine Learning Models in Semi-arid Regions. Water Resources Management, 2020, 34, 2887-2909.	1.9	23
21	Spatial variations of runoff generation at watershed scale. International Journal of Environmental Science and Technology, 2019, 16, 3745-3760.	1.8	2
22	â€˜Impact of Urbanization on Temporal Distribution Pattern of Storm Runoff Coefficient. Environmental Monitoring and Assessment, 2019, 191, 595.	1.3	8
23	Regional flood frequency modeling: a comparative study among several data-driven models. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	8
24	The Relationship between Surface Water Quality and Watershed Characteristics. Journal of Civil Engineering and Construction, 2019, 8, 107-111.	0.4	3
25	Assessment the Performance of Support Vector Machine and Artificial Neural Network Systems for Regional Flood Frequency Analysis (A Case Study: Namak Lake Watershed). Journal of Water and Soil Science, 2019, 23, 351-366.	0.0	1
26	Effects of type, level and time of sand and gravel mining on particle size distributions of suspended sediment. International Soil and Water Conservation Research, 2018, 6, 184-193.	3.0	16
27	Spatiotemporal Variability of Snow Depth, Density, and Water Equivalent across Iran. Russian Meteorology and Hydrology, 2018, 43, 118-126.	0.2	1
28	Regional flood frequency analysis using support vector regression in arid and semi-arid regions of Iran. Hydrological Sciences Journal, 2018, 63, 426-440.	1.2	35
29	Comparative effectiveness of different infiltration models in estimation of watershed flood hydrograph. Paddy and Water Environment, 2018, 16, 411-424.	1.0	8
30	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
31	Groundwater Augmentation through the Site Selection of Floodwater Spreading Using a Data Mining Approach (Case study: Mashhad Plain, Iran). Water (Switzerland), 2018, 10, 1405.	1.2	26
32	Spatial and temporal variability of soil moisture in relation with topographic and meteorological factors in south of Ardabil Province, Iran. Environmental Monitoring and Assessment, 2018, 190, 500.	1.3	9
33	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	3.7	85
34	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	0
35	Spatiotemporal mapping of rainfall erosivity index for different return periods in Iran. Natural Hazards, 2017, 87, 35-56.	1.6	37
36	Improving runoff behavior resulting from direct inoculation of soil micro-organisms. Soil and Tillage Research, 2017, 171, 35-41.	2.6	47

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37	Application of Intelligent Technology in Rainfall Analysis. , 2017, , 441-459.		3
38	Rainfall Prediction Using Time Series Analysis. , 2017, , 517-539.		0
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	Evaluating the support vector machine for suspended sediment load forecasting based on gamma test. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	44
42	Flood hazard mapping using synthesis hydraulic and geomorphic properties at watershed scale. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1889-1900.	1.9	19
43	Hydrological stream flow modeling in the Talar catchment (central section of the Alborz Mountains,) Tj ETQq1 1 0.784314 rgBT /Over Development, 2016, 30, 57-69.	0.9	12
44	Rainfallâ€“Runoff Modeling Using Support Vector Machine in Snow-Affected Watershed. Arabian Journal for Science and Engineering, 2016, 41, 4065-4076.	1.1	22
45	Assessment of some homogeneous methods for the regional analysis of suspended sediment yield in the south and southeast of the Caspian Sea. Journal of Earth System Science, 2015, 124, 1247-1263.	0.6	16
46	Regional Analysis of Flow Duration Curves Using Adaptive Neuro-Fuzzy Inference System. Journal of Hydrologic Engineering - ASCE, 2015, 20, 06015008.	0.8	7
47	Snowmelt-runoff estimation using radiation SRM model in Taleghan watershed. Environmental Earth Sciences, 2015, 73, 993-1003.	1.3	19
48	Evaluation of the Spatial Variability of Annual Precipitation Using Geostatistics in the Lorestan Province, Iran. Current World Environment Journal, 2015, 10, 1016-1023.	0.2	1
49	Comparison of WetSpa Distributed Hydrological Model and Adaptive Neuro-Fuzzy Inference System for Rainfall-Runoff Modeling in Kasilian Watershed. Journal of Water and Soil Science, 2015, 19, 151-163.	0.0	0
50	Storm Runoff Coefficient Estimation Using Adaptive Neuro-Fuzzy Inference System in Barariyeh Watershed, Neishabour. Journal of Water and Soil Science, 2015, 19, 165-177.	0.0	0
51	Hydrology modelling in Taleghan mountainous watershed using SWAT. Journal of Water and Land Development, 2014, 20, 11-18.	0.9	23
52	Optimization of Wavelet-ANFIS and Wavelet-ANN Hybrid Models by Taguchi Method for Groundwater Level Forecasting. Arabian Journal for Science and Engineering, 2014, 39, 1785-1796.	1.1	47
53	A Wavelet-ANFIS Hybrid Model for Groundwater Level Forecasting for Different Prediction Periods. Water Resources Management, 2013, 27, 1301-1321.	1.9	187
54	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. Arabian Journal of Geosciences, 2013, 6, 2873-2888.	0.6	315

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55	Comparison of cokriging and adaptive neuro-fuzzy inference system models for suspended sediment load forecasting. Arabian Journal of Geosciences, 2013, 6, 3003-3018.	0.6	42
56	Application of Several Data-Driven Techniques for Predicting Groundwater Level. Water Resources Management, 2013, 27, 419-432.	1.9	111
57	Application of artificial neural networks and adaptive neuro-fuzzy inference system models to short-term streamflow forecasting. Canadian Journal of Civil Engineering, 2012, 39, 402-414.	0.7	34
58	Using an artificial neural network to model monthly shoreline variations. , 2011, , .		2
59	Determination of the Ability of HEC-HMS Model Components in Rainfall-run-off Simulation. Research Journal of Environmental Sciences, 2011, 5, 790-797.	0.5	9
60	Application of MUSLE for the prediction of phosphorus losses. Water Science and Technology, 2010, 62, 809-815.	1.2	9
61	Regional Analysis of Low Flow in Karkheh and Karoon Watersheds. Journal of Applied Sciences, 2009, 9, 1141-1146.	0.1	0
62	Modeling the Rainfall-Runoff Data in Snow-Affected Watershed. International Journal of Computer and Electrical Engineering, 0, , 40-43.	0.2	4