

# Ahmad Sharafati

## List of Publications by Citations

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**Version:** 2024-04-25

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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.

68

papers

1,148

citations

20

h-index

31

g-index

72

ext. papers

1,695

ext. citations

3.3

avg, IF

5.89

L-index

#	Paper	IF	Citations
68	Development of multivariate adaptive regression spline integrated with differential evolution model for streamflow simulation. <i>Journal of Hydrology</i> , <b>2019</b> , 573, 1-12	6	82
67	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1096	3	65
66	Complementary data-intelligence model for river flow simulation. <i>Journal of Hydrology</i> , <b>2018</b> , 567, 180-190		59
65	A strategy to assess the uncertainty of a climate change impact on extreme hydrological events in the semi-arid Dehbar catchment in Iran. <i>Theoretical and Applied Climatology</i> , <b>2020</b> , 139, 389-402	3	52
64	The potential of new ensemble machine learning models for effluent quality parameters prediction and related uncertainty. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 140, 68-78	5.5	51
63	Copula based assessment of meteorological drought characteristics: Regional investigation of Iran. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 276-277, 107611	5.8	50
62	Spatial assessment of meteorological drought features over different climate regions in Iran. <i>International Journal of Climatology</i> , <b>2020</b> , 40, 1864-1884	3.5	50
61	River water quality index prediction and uncertainty analysis: A comparative study of machine learning models. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104599	6.8	49
60	The potential of novel data mining models for global solar radiation prediction. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 7147-7164	3.3	45
59	River suspended sediment load prediction based on river discharge information: application of newly developed data mining models. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 624-637	3.5	44
58	Modeling monthly pan evaporation process over the Indian central Himalayas: application of multiple learning artificial intelligence model. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2020</b> , 14, 323-338	4.5	42
57	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1124	3	42
56	Global Solar Radiation Estimation and Climatic Variability Analysis Using Extreme Learning Machine Based Predictive Model. <i>IEEE Access</i> , <b>2020</b> , 8, 12026-12042	3.5	34
55	Assessment of Stochastic Approaches in Prediction of Wave-Induced Pipeline Scour Depth. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2018</b> , 9, 04018024	1.5	33
54	A new artificial intelligence strategy for predicting the groundwater level over the Rafsanjan aquifer in Iran. <i>Journal of Hydrology</i> , <b>2020</b> , 591, 125468	6	28
53	Application of newly developed ensemble machine learning models for daily suspended sediment load prediction and related uncertainty analysis. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 2022-2042	3.5	27
52	Simulation of the depth scouring downstream sluice gate: The validation of newly developed data-intelligent models. <i>Journal of Hydro-Environment Research</i> , <b>2020</b> , 29, 20-30	2.3	26

51	Shallow Foundation Settlement Quantification: Application of Hybridized Adaptive Neuro-Fuzzy Inference System Model. <i>Advances in Civil Engineering</i> , <b>2020</b> , 2020, 1-14	1.3	20
50	Assessment of Dam Overtopping Reliability using SUFI Based Overtopping Threshold Curve. <i>Water Resources Management</i> , <b>2018</b> , 32, 2369-2383	3.7	20
49	Rainfall Threshold Curves Extraction by Considering Rainfall-Runoff Model Uncertainty. <i>Arabian Journal for Science and Engineering</i> , <b>2014</b> , 39, 6835-6849		20
48	Pan Evaporation Estimation in Uttarakhand and Uttar Pradesh States, India: Validity of an Integrative Data Intelligence Model. <i>Atmosphere</i> , <b>2020</b> , 11, 553	2.7	17
47	New stochastic modeling strategy on the prediction enhancement of pier scour depth in cohesive bed materials. <i>Journal of Hydroinformatics</i> , <b>2020</b> , 22, 457-472	2.6	17
46	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 1145-1157	3.5	16
45	The Application of Soft Computing Models and Empirical Formulations for Hydraulic Structure Scouring Depth Simulation: A Comprehensive Review, Assessment and Possible Future Research Direction. <i>Archives of Computational Methods in Engineering</i> , <b>2021</b> , 28, 423-447	7.8	16
44	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. <i>Scientific Reports</i> , <b>2021</b> , 11, 3435	4.9	16
43	Long-term spatiotemporal evaluation of CHIRPS satellite precipitation product over different climatic regions of Iran. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 143, 211-225	3	15
42	Applications of soft computing models for predicting sea surface temperature: a comprehensive review and assessment. <i>Progress in Earth and Planetary Science</i> , <b>2021</b> , 8,	3.9	14
41	Development of Advanced Computer Aid Model for Shear Strength of Concrete Slender Beam Prediction. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3811	2.6	13
40	Assessment of Water Supply Dam Failure Risk: Development of New Stochastic Failure Modes and Effects Analysis. <i>Water Resources Management</i> , <b>2020</b> , 34, 1827-1841	3.7	13
39	Quantification and uncertainty of the impact of climate change on river discharge and sediment yield in the Dehbar river basin in Iran. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 2977-2996	3.4	12
38	Drought hazard depending on elevation and precipitation in Lorestan, Iran. <i>Theoretical and Applied Climatology</i> , <b>2020</b> , 142, 1369-1377	3	12
37	Application of nature-inspired optimization algorithms to ANFIS model to predict wave-induced scour depth around pipelines. <i>Journal of Hydroinformatics</i> , <b>2020</b> , 22, 1425-1451	2.6	11
36	Strategic Assessment of Dam Overtopping Reliability Using a Stochastic Process Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2020</b> , 25, 04020029	1.8	9
35	Scouring Depth Assessment Downstream of Weirs Using Hybrid Intelligence Models. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3714	2.6	9
34	Assessing the Uncertainty Associated with Flood Features due to Variability of Rainfall and Hydrological Parameters. <i>Advances in Civil Engineering</i> , <b>2020</b> , 2020, 1-9	1.3	8

33	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 1288	3	8
32	Groundwater contamination vulnerability assessment using DRASTIC method, GSA, and uncertainty analysis. <i>Arabian Journal of Geosciences</i> , <b>2020</b> , 13, 1	1.8	7
31	New formulations for prediction of velocity at limit of deposition in storm sewers based on a stochastic technique. <i>Water Science and Technology</i> , <b>2020</b> , 81, 2634-2649	2.2	7
30	Application of bagging ensemble model for predicting compressive strength of hollow concrete masonry prism. <i>Ain Shams Engineering Journal</i> , <b>2021</b> ,	4.4	7
29	An efficient strategy for predicting river dissolved oxygen concentration: application of deep recurrent neural network model. <i>Environmental Monitoring and Assessment</i> , <b>2021</b> , 193, 798	3.1	6
28	A novel simulation optimization strategy for stochastic-based designing of flood control dam: A case study of Jamishan dam. <i>Journal of Flood Risk Management</i> , <b>2021</b> , 14, e12678	3.1	6
27	Application of Soft Computing Models for Simulating Nitrate Contamination in Groundwater: Comprehensive Review, Assessment and Future Opportunities. <i>Archives of Computational Methods in Engineering</i> , <b>2021</b> , 28, 3569-3591	7.8	6
26	Assessing Pollution Risk in Ardabil Aquifer Groundwater of Iran with Arsenic and Nitrate Using the SINTACS Model. <i>Polish Journal of Environmental Studies</i> , <b>2020</b> , 29, 2609-2616	2.3	5
25	A novel boosting ensemble committee-based model for local scour depth around non-uniformly spaced pile groups. <i>Engineering With Computers</i> ,1	4.5	5
24	Spatial Differentiation Characteristics of Groundwater Stress Index and its Relation to Land Use and Subsidence in the Varamin Plain, Iran. <i>Natural Resources Research</i> , <b>2021</b> , 30, 339-357	4.9	5
23	Performance evaluation of sediment ejector efficiency using hybrid neuro-fuzzy models. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 627-643	4.5	5
22	Evaluation of different gridded precipitation products in trend analysis of precipitation features over Iran. <i>Acta Geophysica</i> , <b>2021</b> , 69, 959-974	2.2	4
21	Simulation of foamed concrete compressive strength prediction using adaptive neuro-fuzzy inference system optimized by nature-inspired algorithms. <i>Frontiers of Structural and Civil Engineering</i> , <b>2021</b> , 15, 61-79	2.5	4
20	Estimating the transient storage parameters for pollution modeling in small streams: a comparison of newly developed hybrid optimization algorithms. <i>Environmental Monitoring and Assessment</i> , <b>2021</b> , 193, 475	3.1	4
19	Application of Artificial Intelligence Models for Evapotranspiration Prediction along the Southern Coast of Turkey. <i>Complexity</i> , <b>2021</b> , 2021, 1-20	1.6	4
18	Prediction of channel sinuosity in perennial rivers using Bayesian Mutual Information theory and support vector regression coupled with meta-heuristic algorithms. <i>Earth Science Informatics</i> ,1	2.5	4
17	Satellite-based monitoring of meteorological drought over different regions of Iran: application of the CHIRPS precipitation product.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	3
16	Assessing the impact of climate change on urban water demand and related uncertainties: a case study of Neyshabur, Iran. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 145, 473-487	3	3

15	Assessment of novel nature-inspired fuzzy models for predicting long contraction scouring and related uncertainties. <i>Frontiers of Structural and Civil Engineering</i> , <b>2021</b> , 15, 665-681	2.5	3
14	A review of studies on estimating the discharge coefficient of flow control structures based on the soft computing models. <i>Flow Measurement and Instrumentation</i> , <b>2022</b> , 83, 102119	2.2	2
13	Validation of CHIRPS satellite-based precipitation data against the in situ observations using the Copula method: a case study of Kosar Dam basin, Iran. <i>Acta Geophysica</i> ,1	2.2	2
12	Estimation of Daily Suspended Sediment Load Using a Novel Hybrid Support Vector Regression Model Incorporated with Observer-Teacher-Learner-Based Optimization Method. <i>Complexity</i> , <b>2021</b> , 2021, 1-13	1.6	2
11	Evaluation of gridded soil moisture products over varied land covers, climates, and soil textures using in situ measurements: A case study of Lake Urmia Basin. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 145, 1053-1074	3	2
10	Estimation of Spatial and Seasonal Variability of Soil Erosion in a Cold Arid River Basin in Hindu Kush Mountainous Region Using Remote Sensing. <i>Sustainability</i> , <b>2021</b> , 13, 1549	3.6	2
9	Prediction of heat waves using meteorological variables in diverse regions of Iran with advanced machine learning models. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
8	Machine learning model development for predicting aeration efficiency through Parshall flume. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2021</b> , 15, 889-901	4.5	1
7	Satellite-based streamflow simulation using CHIRPS satellite precipitation product in Shah Bahram Basin, Iran. <i>Acta Geophysica</i> , <b>2022</b> , 70, 385	2.2	0
6	Application of ensemble machine learning model in downscaling and projecting climate variables over different climate regions in Iran. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	0
5	A Novel Stochastic Approach for Optimization of Diversion System Dimension by Considering Hydrological and Hydraulic Uncertainties. <i>Water Resources Management</i> , <b>2021</b> , 35, 3649-3677	3.7	0
4	Determination of cotton and wheat yield using the standard precipitation evaporation index in Pakistan. <i>Arabian Journal of Geosciences</i> , <b>2021</b> , 14, 1	1.8	0
3	Determination of discharge coefficient of stepped morning glory spillway using a hybrid data-driven method. <i>Flow Measurement and Instrumentation</i> , <b>2022</b> , 85, 102161	2.2	0
2	Evaluation of the ECMWF Precipitation Product over Various Regions of Iran. <i>Journal of Meteorological Research</i> , <b>2021</b> , 35, 1125-1135	2.3	0
1	A robust stochastic approach in correcting the TRMM precipitation product and simulating flood features.. <i>Environmental Monitoring and Assessment</i> , <b>2022</b> , 194, 364	3.1	0