

Ahmad Sharafati

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,308
citations

218381

26
h-index

243296

44
g-index

72
all docs

72
docs citations

72
times ranked

1397
citing authors

#	ARTICLE	IF	CITATIONS
1	River water quality index prediction and uncertainty analysis: A comparative study of machine learning models. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104599.	3.3	164
2	Development of multivariate adaptive regression spline integrated with differential evolution model for streamflow simulation. <i>Journal of Hydrology</i> , 2019, 573, 1-12.	2.3	120
3	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. <i>Water (Switzerland)</i> , 2019, 11, 1096.	1.2	110
4	The potential of new ensemble machine learning models for effluent quality parameters prediction and related uncertainty. <i>Chemical Engineering Research and Design</i> , 2020, 140, 68-78.	2.7	100
5	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> , 2020, 139, 389-402.	1.3	94
6	The potential of novel data mining models for global solar radiation prediction. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 7147-7164.	1.8	81
7	Copula based assessment of meteorological drought characteristics: Regional investigation of Iran. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107611.	1.9	79
8	Spatial assessment of meteorological drought features over different climate regions in Iran. <i>International Journal of Climatology</i> , 2020, 40, 1864-1884.	1.5	78
9	Complementary data-intelligence model for river flow simulation. <i>Journal of Hydrology</i> , 2018, 567, 180-190.	2.3	76
10	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> , 2020, 14, 323-338.	1.5	75
11	River suspended sediment load prediction based on river discharge information: application of newly developed data mining models. <i>Hydrological Sciences Journal</i> , 2020, 65, 624-637.	1.2	72
12	A new artificial intelligence strategy for predicting the groundwater level over the Rafsanjan aquifer in Iran. <i>Journal of Hydrology</i> , 2020, 591, 125468.	2.3	65
13	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. <i>Water (Switzerland)</i> , 2018, 10, 1124.	1.2	64
14	Global Solar Radiation Estimation and Climatic Variability Analysis Using Extreme Learning Machine Based Predictive Model. <i>IEEE Access</i> , 2020, 8, 12026-12042.	2.6	59
15	Application of newly developed ensemble machine learning models for daily suspended sediment load prediction and related uncertainty analysis. <i>Hydrological Sciences Journal</i> , 2020, 65, 2022-2042.	1.2	58
16	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. <i>Scientific Reports</i> , 2021, 11, 3435.	1.6	52
17	Assessment of Stochastic Approaches in Prediction of Wave-Induced Pipeline Scour Depth. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, .	0.9	44
18	Long-term spatiotemporal evaluation of CHIRPS satellite precipitation product over different climatic regions of Iran. <i>Theoretical and Applied Climatology</i> , 2021, 143, 211-225.	1.3	44

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19	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> , 2020, 20, 2977-2996.	1.5	43
20	Simulation of the depth scouring downstream sluice gate: The validation of newly developed data-intelligent models. <i>Journal of Hydro-Environment Research</i> , 2020, 29, 20-30.	1.0	42
21	Application of bagging ensemble model for predicting compressive strength of hollow concrete masonry prism. <i>Ain Shams Engineering Journal</i> , 2021, 12, 3521-3530.	3.5	35
22	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> , 2021, 28, 423-447.	6.0	33
23	Pan Evaporation Estimation in Uttarakhand and Uttar Pradesh States, India: Validity of an Integrative Data Intelligence Model. <i>Atmosphere</i> , 2020, 11, 553.	1.0	29
24	Shallow Foundation Settlement Quantification: Application of Hybridized Adaptive Neuro-Fuzzy Inference System Model. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-14.	0.4	29
25	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. <i>Agriculture (Switzerland)</i> , 2021, 11, 1288.	1.4	29
26	Rainfall Threshold Curves Extraction by Considering Rainfall-Runoff Model Uncertainty. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 6835-6849.	1.1	28
27	New stochastic modeling strategy on the prediction enhancement of pier scour depth in cohesive bed materials. <i>Journal of Hydroinformatics</i> , 2020, 22, 457-472.	1.1	28
28	Applications of soft computing models for predicting sea surface temperature: a comprehensive review and assessment. <i>Progress in Earth and Planetary Science</i> , 2021, 8, .	1.1	27
29	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. <i>Hydrological Sciences Journal</i> , 2020, 65, 1145-1157.	1.2	25
30	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> , 2021, 30, 339-357.	2.2	25
31	An efficient strategy for predicting river dissolved oxygen concentration: application of deep recurrent neural network model. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 798.	1.3	24
32	Assessment of Dam Overtopping Reliability using SUFI Based Overtopping Threshold Curve. <i>Water Resources Management</i> , 2018, 32, 2369-2383.	1.9	22
33	Drought hazard depending on elevation and precipitation in Lorestan, Iran. <i>Theoretical and Applied Climatology</i> , 2020, 142, 1369-1377.	1.3	22
34	Assessment of Water Supply Dam Failure Risk: Development of New Stochastic Failure Modes and Effects Analysis. <i>Water Resources Management</i> , 2020, 34, 1827-1841.	1.9	21
35	Application of nature-inspired optimization algorithms to ANFIS model to predict wave-induced scour depth around pipelines. <i>Journal of Hydroinformatics</i> , 2020, 22, 1425-1451.	1.1	19
36	Development of Advanced Computer Aid Model for Shear Strength of Concrete Slender Beam Prediction. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3811.	1.3	19

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37	Application of Soft Computing Models for Simulating Nitrate Contamination in Groundwater: Comprehensive Review, Assessment and Future Opportunities. Archives of Computational Methods in Engineering, 2021, 28, 3569-3591.	6.0	19
38	A novel boosting ensemble committee-based model for local scour depth around non-uniformly spaced pile groups. Engineering With Computers, 2022, 38, 3439-3461.	3.5	19
39	Application of Artificial Intelligence Models for Evapotranspiration Prediction along the Southern Coast of Turkey. Complexity, 2021, 2021, 1-20.	0.9	19
40	Satellite-based monitoring of meteorological drought over different regions of Iran: application of the CHIRPS precipitation product. Environmental Science and Pollution Research, 2022, 29, 36115-36132.	2.7	18
41	Strategic Assessment of Dam Overtopping Reliability Using a Stochastic Process Approach. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	17
42	Application of ensemble machine learning model in downscaling and projecting climate variables over different climate regions in Iran. Environmental Science and Pollution Research, 2022, 29, 17260-17279.	2.7	17
43	Estimation of Daily Suspended Sediment Load Using a Novel Hybrid Support Vector Regression Model Incorporated with Observer-Teacher-Learner-Based Optimization Method. Complexity, 2021, 2021, 1-13.	0.9	16
44	Performance evaluation of sediment ejector efficiency using hybrid neuro-fuzzy models. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 627-643.	1.5	14
45	Projecting spatiotemporal changes of precipitation and temperature in Iraq for different shared socioeconomic pathways with selected Coupled Model Intercomparison Project Phase 6. International Journal of Climatology, 2022, 42, 9032-9050.	1.5	14
46	Assessing the Uncertainty Associated with Flood Features due to Variability of Rainfall and Hydrological Parameters. Advances in Civil Engineering, 2020, 2020, 1-9.	0.4	13
47	Groundwater contamination vulnerability assessment using DRASTIC method, GSA, and uncertainty analysis. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	13
48	Scouring Depth Assessment Downstream of Weirs Using Hybrid Intelligence Models. Applied Sciences (Switzerland), 2020, 10, 3714.	1.3	12
49	Simulation of foamed concrete compressive strength prediction using adaptive neuro-fuzzy inference system optimized by nature-inspired algorithms. Frontiers of Structural and Civil Engineering, 2021, 15, 61-79.	1.2	12
50	Uncertainty of climate change impact on crop characteristics: a case study of Moghan plain in Iran. Theoretical and Applied Climatology, 0, , .	1.3	12
51	New formulations for prediction of velocity at limit of deposition in storm sewers based on a stochastic technique. Water Science and Technology, 2020, 81, 2634-2649.	1.2	11
52	Assessing Pollution Risk in Ardabil Aquifer Groundwater of Iran with Arsenic and Nitrate Using the SINTACS Model. Polish Journal of Environmental Studies, 2020, 29, 2609-2616.	0.6	11
53	A novel simulation-based optimization strategy for stochastic-based designing of flood control dam: A case study of Jamishan dam. Journal of Flood Risk Management, 2021, 14, e12678.	1.6	10
54	Evaluation of different gridded precipitation products in trend analysis of precipitation features over Iran. Acta Geophysica, 2021, 69, 959-974.	1.0	10

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55	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> , 2021, 145, 473-487.	1.3	10
56	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> , 2021, 193, 475.	1.3	10
57	Satellite-based streamflow simulation using CHIRPS satellite precipitation product in Shah Bahram Basin, Iran. <i>Acta Geophysica</i> , 2022, 70, 385-398.	1.0	10
58	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> , 2021, 145, 1053-1074.	1.3	9
59	Assessment of novel nature-inspired fuzzy models for predicting long contraction scouring and related uncertainties. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 665-681.	1.2	9
60	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> , 2022, 83, 102119.	1.0	9
61	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> , 2022, 36, 1959-1974.	1.9	8
62	Sustainable exploitation of groundwater resources considering the effects of climate change and land use to provide adaptation solutions (case study of the Hashtgerd plain). <i>Acta Geophysica</i> , 2022, 70, 1829-1846.	1.0	8
63	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> , 0, , 1.	1.6	7
64	Machine learning model development for predicting aeration efficiency through Parshall flume. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 889-901.	1.5	7
65	Determination of cotton and wheat yield using the standard precipitation evaporation index in Pakistan. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	6
66	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> , 2021, 13, 1549.	1.6	5
67	Determination of discharge coefficient of stepped morning glory spillway using a hybrid data-driven method. <i>Flow Measurement and Instrumentation</i> , 2022, 85, 102161.	1.0	5
68	A Novel Stochastic Approach for Optimization of Diversion System Dimension by Considering Hydrological and Hydraulic Uncertainties. <i>Water Resources Management</i> , 2021, 35, 3649-3677.	1.9	4
69	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> , 2022, 70, 465-484.	1.0	4
70	A robust stochastic approach in correcting the TRMM precipitation product and simulating flood features. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 364.	1.3	4
71	Evaluation of the ECMWF Precipitation Product over Various Regions of Iran. <i>Journal of Meteorological Research</i> , 2021, 35, 1125-1135.	0.9	1
72	Impact of meteorological drought on vegetation in non-irrigated lands. <i>Idojaras</i> , 2021, 125, 463-476.	0.2	0