

Ahmed Elbeltagi

List of Publications by Year in descending order

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76
papers

2,213
citations

186265

28
h-index

276875

41
g-index

81
all docs

81
docs citations

81
times ranked

687
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of water delivery performance of right main canal of Bhimsagar medium irrigation scheme, Rajasthan. <i>ISH Journal of Hydraulic Engineering</i> , 2023, 29, 378-388.	2.1	4
2	Assessment of the effects of spatiotemporal characteristics of drought on crop yields in southwest China. <i>International Journal of Climatology</i> , 2022, 42, 3056-3075.	3.5	16
3	Applications of various data-driven models for the prediction of groundwater quality index in the Akot basin, Maharashtra, India. <i>Environmental Science and Pollution Research</i> , 2022, 29, 17591-17605.	5.3	49
4	Development of new machine learning model for streamflow prediction: case studies in Pakistan. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 999-1033.	4.0	41
5	Prediction of irrigation groundwater quality parameters using ANN, LSTM, and MLR models. <i>Environmental Science and Pollution Research</i> , 2022, 29, 21067-21091.	5.3	78
6	Combined Terrestrial Evapotranspiration Index prediction using a hybrid artificial intelligence paradigm integrated with relief algorithm-based feature selection. <i>Computers and Electronics in Agriculture</i> , 2022, 193, 106687.	7.7	8
7	Methods to estimate evapotranspiration in humid and subtropical climate conditions. <i>Agricultural Water Management</i> , 2022, 261, 107378.	5.6	59
8	Assessment of Climate Change Impact on Snowmelt Runoff in Himalayan Region. <i>Sustainability</i> , 2022, 14, 1150.	3.2	31
9	Variational quantum classifiers through the lens of the Hessian. <i>PLoS ONE</i> , 2022, 17, e0262346.	2.5	13
10	Artificial intelligent-based water and soil management. , 2022, , 129-142.		7
11	Recent changes in temperature extremes in subtropical climate region and the role of large-scale atmospheric oscillation patterns. <i>Theoretical and Applied Climatology</i> , 2022, 148, 329-347.	2.8	12
12	Potentially toxic elemental contamination in Wainivesi River, Fiji impacted by gold-mining activities using chemometric tools and SOM analysis. <i>Environmental Science and Pollution Research</i> , 2022, 29, 42742-42767.	5.3	16
13	Variability of climate-induced rice yields in northwest Bangladesh using multiple statistical modeling. <i>Theoretical and Applied Climatology</i> , 2022, 147, 1263-1276.	2.8	10
14	An evapotranspiration deficit-based drought index to detect variability of terrestrial carbon productivity in the Middle East. <i>Environmental Research Letters</i> , 2022, 17, 014051.	5.2	11
15	Application of hydrological model to assess river flow in the transboundary cryosphere and data-scarce watershed, a case study: Chitral-Kabul River Basin (C-KRB) in Pakistan. <i>Water Science and Technology: Water Supply</i> , 2022, 22, 3842-3862.	2.1	1
16	Landslide Susceptibility Mapping with Deep Learning Algorithms. <i>Sustainability</i> , 2022, 14, 1734.	3.2	48
17	Modelling the reference crop evapotranspiration in the Beas-Sutlej basin (India): an artificial neural network approach based on different combinations of meteorological data. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 141.	2.7	25
18	Determining the Hydrological Behaviour of Catchment Based on Quantitative Morphometric Analysis in the Hard Rock Area of Nand Samand Catchment, Rajasthan, India. <i>Hydrology</i> , 2022, 9, 31.	3.0	16

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19	Combination of Limited Meteorological Data for Predicting Reference Crop Evapotranspiration Using Artificial Neural Network Method. <i>Agronomy</i> , 2022, 12, 516.	3.0	36
20	Water quality index modeling using random forest and improved SMO algorithm for support vector machine in Saf-Saf river basin. <i>Environmental Science and Pollution Research</i> , 2022, 29, 48491-48508.	5.3	43
21	Analysis of Seasonal Variations in Surface Water Quality over Wet and Dry Regions. <i>Water (Switzerland)</i> , 2022, 14, 1058.	2.7	14
22	Groundwater level prediction using machine learning algorithms in a drought-prone area. <i>Neural Computing and Applications</i> , 2022, 34, 10751-10773.	5.6	64
23	Modelling daily reference evapotranspiration based on stacking hybridization of ANN with meta-heuristic algorithms under diverse agro-climatic conditions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3311-3334.	4.0	30
24	Applicability of machine learning techniques for multi-time step ahead runoff forecasting. <i>Acta Geophysica</i> , 2022, 70, 757-776.	2.0	7
25	Prediction of irrigation water quality indices based on machine learning and regression models. <i>Applied Water Science</i> , 2022, 12, 1.	5.6	27
26	Comparative study on morphometric analysis and RUSLE-based approaches for micro-watershed prioritization using remote sensing and GIS. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	21
27	Groundwater level estimation in northern region of Bangladesh using hybrid locally weighted linear regression and Gaussian process regression modeling. <i>Theoretical and Applied Climatology</i> , 2022, 149, 131-151.	2.8	13
28	Modeling stageâ€“dischargeâ€“sediment using support vector machine and artificial neural network coupled with wavelet transform. <i>Applied Water Science</i> , 2022, 12, 1.	5.6	24
29	Groundwater flow modeling in the basaltic hard rock area of Maharashtra, India. <i>Applied Water Science</i> , 2022, 12, 1.	5.6	35
30	Investigating Relationships between Runoffâ€“Erosion Processes and Land Use and Land Cover Using Remote Sensing Multiple Gridded Datasets. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 272.	2.9	16
31	A comparative analysis of data mining techniques for agricultural and hydrological drought prediction in the eastern Mediterranean. <i>Computers and Electronics in Agriculture</i> , 2022, 197, 106925.	7.7	18
32	Applications of Data-driven Models for Daily Discharge Estimation Based on Different Input Combinations. <i>Water Resources Management</i> , 2022, 36, 2201-2221.	3.9	13
33	River flow rate prediction in the Des Moines watershed (Iowa, USA): a machine learning approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3835-3855.	4.0	19
34	Novel Genetic Algorithm (GA) based hybrid machine learning-pedotransfer Function (ML-PTF) for prediction of spatial pattern of saturated hydraulic conductivity. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 1082-1099.	3.1	31
35	Data intelligence and hybrid metaheuristic algorithms-based estimation of reference evapotranspiration. <i>Applied Water Science</i> , 2022, 12, 1.	5.6	38
36	Cost-effective management measures for coastal aquifers affected by saltwater intrusion and climate change. <i>Science of the Total Environment</i> , 2022, 836, 155656.	8.0	19

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37	Assessing machine learning models for streamflow estimation: a case study in Oued Sebaou watershed (Northern Algeria). <i>Hydrological Sciences Journal</i> , 2022, 67, 1328-1341.	2.6	12
38	How do multiple kernel functions in machine learning algorithms improve precision in flood probability mapping?. <i>Natural Hazards</i> , 2022, 113, 1543-1562.	3.4	6
39	Development of Monthly Reference Evapotranspiration Machine Learning Models and Mapping of Pakistanâ€™A Comparative Study. <i>Water (Switzerland)</i> , 2022, 14, 1666.	2.7	10
40	Optimizing hyperparameters of deep hybrid learning for rainfall prediction: a case study of a Mediterranean basin. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	1.3	15
41	Assessing the impacts of agricultural drought (SPI/SPEI) on maize and wheat yields across Hungary. <i>Scientific Reports</i> , 2022, 12, .	3.3	39
42	Estimating the Standardized Precipitation Evapotranspiration Index Using Data-Driven Techniques: A Regional Study of Bangladesh. <i>Water (Switzerland)</i> , 2022, 14, 1764.	2.7	10
43	Evaluation of Data-driven Hybrid Machine Learning Algorithms for Modelling Daily Reference Evapotranspiration. <i>Atmosphere - Ocean</i> , 2022, 60, 519-540.	1.6	19
44	Pre- and post-dam river water temperature alteration prediction using advanced machine learning models. <i>Environmental Science and Pollution Research</i> , 2022, 29, 83321-83346.	5.3	29
45	An Integrated Statistical-Machine Learning Approach for Runoff Prediction. <i>Sustainability</i> , 2022, 14, 8209.	3.2	46
46	Spatial and temporal variability analysis of green and blue evapotranspiration of wheat in the Egyptian Nile Delta from 1997 to 2017. <i>Journal of Hydrology</i> , 2021, 594, 125662.	5.4	30
47	Estimation of SPEI Meteorological Drought Using Machine Learning Algorithms. <i>IEEE Access</i> , 2021, 9, 65503-65523.	4.2	76
48	Artificial intelligence approach to estimating rice yield*. <i>Irrigation and Drainage</i> , 2021, 70, 732-742.	1.7	15
49	Daily pan-evaporation estimation in different agro-climatic zones using novel hybrid support vector regression optimized by Salp swarm algorithm in conjunction with gamma test. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1075-1094.	3.1	23
50	Prediction of Combined Terrestrial Evapotranspiration Index (CTEI) over Large River Basin Based on Machine Learning Approaches. <i>Water (Switzerland)</i> , 2021, 13, 547.	2.7	57
51	Spatiotemporal trends in reference evapotranspiration and its driving factors in Bangladesh. <i>Theoretical and Applied Climatology</i> , 2021, 144, 793-808.	2.8	63
52	An Enhanced Innovative Triangular Trend Analysis of Rainfall Based on a Spectral Approach. <i>Water (Switzerland)</i> , 2021, 13, 727.	2.7	16
53	Novel Ensemble Forecasting of Streamflow Using Locally Weighted Learning Algorithm. <i>Sustainability</i> , 2021, 13, 5877.	3.2	30
54	The Superiority of Data-Driven Techniques for Estimation of Daily Pan Evaporation. <i>Atmosphere</i> , 2021, 12, 701.	2.3	20

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55	Potential of hybrid wavelet-coupled data-driven-based algorithms for daily runoff prediction in complex river basins. <i>Theoretical and Applied Climatology</i> , 2021, 145, 1207-1231.	2.8	19
56	Rice yield responses in Bangladesh to large-scale atmospheric oscillation using multifactorial model. <i>Theoretical and Applied Climatology</i> , 2021, 146, 29-44.	2.8	5
57	Evaluation of the effect of climate change on maize water footprint under RCPs scenarios in Qazvin plain, Iran. <i>Agricultural Water Management</i> , 2021, 254, 106969.	5.6	25
58	Applications of Gaussian process regression for predicting blue water footprint: Case study in Ad Daqahliyah, Egypt. <i>Agricultural Water Management</i> , 2021, 255, 107052.	5.6	35
59	Application of stacking hybrid machine learning algorithms in delineating multi-type flooding in Bangladesh. <i>Journal of Environmental Management</i> , 2021, 295, 113086.	7.8	51
60	Spatiotemporal changes and modulations of extreme climatic indices in monsoon-dominated climate region linkage with large-scale atmospheric oscillation. <i>Atmospheric Research</i> , 2021, 264, 105840.	4.1	34
61	Superiority of Hybrid Soft Computing Models in Daily Suspended Sediment Estimation in Highly Dynamic Rivers. <i>Sustainability</i> , 2021, 13, 542.	3.2	30
62	Evaluation of soil erosion and sediment yield spatio-temporal pattern during 1990â€“2019. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 2676-2707.	4.3	21
63	Understanding temporary reduction in atmospheric pollution and its impacts on coastal aquatic system during COVID-19 lockdown: a case study of South Asia. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 560-580.	4.3	15
64	Evaluation of Karst Spring Discharge Response Using Time-Scale-Based Methods for a Mediterranean Basin of Northern Algeria. <i>Water (Switzerland)</i> , 2021, 13, 2946.	2.7	13
65	Water spread mapping of multiple lakes using remote sensing and satellite data. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	34
66	GHGs Emission from the Agricultural Sector within EU-28: A Multivariate Analysis Approach. <i>Energies</i> , 2021, 14, 6495.	3.1	6
67	Farmersâ€™ Awareness in the Context of Climate Change: An Underutilized Way for Ensuring Sustainable Farmland Adaptation and Surface Water Quality. <i>Sustainability</i> , 2021, 13, 11802.	3.2	6
68	Delineation of groundwater potential zones for sustainable development and planning using analytical hierarchy process (AHP), and MIF techniques. <i>Applied Water Science</i> , 2021, 11, .	5.6	73
69	Performance of machine learning methods in predicting water quality index based on irregular data set: application on Illizi region (Algerian southeast). <i>Applied Water Science</i> , 2021, 11, 1.	5.6	134
70	Estimation of the rice water footprint based on machine learning algorithms. <i>Computers and Electronics in Agriculture</i> , 2021, 191, 106501.	7.7	12
71	Data Intelligence Model and Meta-Heuristic Algorithms-Based Pan Evaporation Modelling in Two Different Agro-Climatic Zones: A Case Study from Northern India. <i>Atmosphere</i> , 2021, 12, 1654.	2.3	52
72	Socio-economic analysis of Baroda branch canal of Som Kamlamba irrigation project, Dungarpur, Rajasthan. <i>Environment Conservation Journal</i> , 2021, 22, 271-279.	0.2	0

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73	The impact of climate changes on the water footprint of wheat and maize production in the Nile Delta, Egypt. <i>Science of the Total Environment</i> , 2020, 743, 140770.	8.0	67
74	Modeling long-term dynamics of crop evapotranspiration using deep learning in a semi-arid environment. <i>Agricultural Water Management</i> , 2020, 241, 106334.	5.6	70
75	Crop Water footprint estimation and modeling using an artificial neural network approach in the Nile Delta, Egypt. <i>Agricultural Water Management</i> , 2020, 235, 106080.	5.6	44
76	Modeling monthly crop coefficients of maize based on limited meteorological data: A case study in Nile Delta, Egypt. <i>Computers and Electronics in Agriculture</i> , 2020, 173, 105368.	7.7	34