

Zaher Mundher Yaseen

List of Publications by Year in descending order

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289
papers

12,789
citations

19636

61
h-index

40954

93
g-index

293
all docs

293
docs citations

293
times ranked

6503
citing authors

#	ARTICLE	IF	CITATIONS
1	An enhanced extreme learning machine model for river flow forecasting: State-of-the-art, practical applications in water resource engineering area and future research direction. <i>Journal of Hydrology</i> , 2019, 569, 387-408.	2.3	470
2	Artificial intelligence based models for stream-flow forecasting: 2000–2015. <i>Journal of Hydrology</i> , 2015, 530, 829-844.	2.3	392
3	A survey on river water quality modelling using artificial intelligence models: 2000–2020. <i>Journal of Hydrology</i> , 2020, 585, 124670.	2.3	314
4	Predicting compressive strength of lightweight foamed concrete using extreme learning machine model. <i>Advances in Engineering Software</i> , 2018, 115, 112-125.	1.8	288
5	Stream-flow forecasting using extreme learning machines: A case study in a semi-arid region in Iraq. <i>Journal of Hydrology</i> , 2016, 542, 603-614.	2.3	257
6	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. <i>Journal of Hydrology</i> , 2017, 554, 263-276.	2.3	192
7	An insight into machine learning models era in simulating soil, water bodies and adsorption heavy metals: Review, challenges and solutions. <i>Chemosphere</i> , 2021, 277, 130126.	4.2	175
8	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
9	Application of artificial intelligence (AI) techniques in water quality index prediction: a case study in tropical region, Malaysia. <i>Neural Computing and Applications</i> , 2017, 28, 893-905.	3.2	160
10	Zwitterion composite chitosan-epichlorohydrin/zeolite for adsorption of methylene blue and reactive red 120 dyes. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 756-765.	3.6	148
11	Reference evapotranspiration prediction using hybridized fuzzy model with firefly algorithm: Regional case study in Burkina Faso. <i>Agricultural Water Management</i> , 2018, 208, 140-151.	2.4	142
12	Pan evaporation prediction using a hybrid multilayer perceptron-firefly algorithm (MLP-FFA) model: case study in North Iran. <i>Theoretical and Applied Climatology</i> , 2018, 133, 1119-1131.	1.3	134
13	Quantifying hourly suspended sediment load using data mining models: Case study of a glacierized Andean catchment in Chile. <i>Journal of Hydrology</i> , 2018, 567, 165-179.	2.3	133
14	ANN Based Sediment Prediction Model Utilizing Different Input Scenarios. <i>Water Resources Management</i> , 2015, 29, 1231-1245.	1.9	132
15	Statistical modeling and mechanistic pathway for methylene blue dye removal by high surface area and mesoporous grass-based activated carbon using K ₂ CO ₃ activator. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105530.	3.3	130
16	Development of artificial intelligence for modeling wastewater heavy metal removal: State of the art, application assessment and possible future research. <i>Journal of Cleaner Production</i> , 2020, 250, 119473.	4.6	123
17	Deep Learning Data-Intelligence Model Based on Adjusted Forecasting Window Scale: Application in Daily Streamflow Simulation. <i>IEEE Access</i> , 2020, 8, 32632-32651.	2.6	121
18	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

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19	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. Knowledge-Based Systems, 2021, 230, 107379.	4.0	117
20	Groundwater level prediction using machine learning models: A comprehensive review. Neurocomputing, 2022, 489, 271-308.	3.5	115
21	Complete ensemble empirical mode decomposition hybridized with random forest and kernel ridge regression model for monthly rainfall forecasts. Journal of Hydrology, 2020, 584, 124647.	2.3	114
22	Genetic programming in water resources engineering: A state-of-the-art review. Journal of Hydrology, 2018, 566, 643-667.	2.3	110
23	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. Water (Switzerland), 2019, 11, 1096.	1.2	110
24	Temperature-based modeling of reference evapotranspiration using several artificial intelligence models: application of different modeling scenarios. Theoretical and Applied Climatology, 2019, 135, 449-462.	1.3	108
25	Hybrid Adaptive Neuro-Fuzzy Models for Water Quality Index Estimation. Water Resources Management, 2018, 32, 2227-2245.	1.9	107
26	Application of soft computing based hybrid models in hydrological variables modeling: a comprehensive review. Theoretical and Applied Climatology, 2017, 128, 875-903.	1.3	105
27	Meteorological data mining and hybrid data-intelligence models for reference evaporation simulation: A case study in Iraq. Computers and Electronics in Agriculture, 2019, 167, 105041.	3.7	105
28	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 90-106.	1.5	104
29	Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks. Scientific Reports, 2021, 11, 17497.	1.6	103
30	Compressive strength of Foamed Cellular Lightweight Concrete simulation: New development of hybrid artificial intelligence model. Construction and Building Materials, 2020, 230, 117048.	3.2	102
31	Past, present and prospect of an Artificial Intelligence (AI) based model for sediment transport prediction. Journal of Hydrology, 2016, 541, 902-913.	2.3	101
32	Rainfall Pattern Forecasting Using Novel Hybrid Intelligent Model Based ANFIS-FFA. Water Resources Management, 2018, 32, 105-122.	1.9	101
33	Enhancing Long-Term Streamflow Forecasting and Predicting using Periodicity Data Component: Application of Artificial Intelligence. Water Resources Management, 2016, 30, 4125-4151.	1.9	100
34	Soil moisture simulation using hybrid artificial intelligent model: Hybridization of adaptive neuro fuzzy inference system with grey wolf optimizer algorithm. Journal of Hydrology, 2019, 575, 544-556.	2.3	99
35	Non-tuned data intelligent model for soil temperature estimation: A new approach. Geoderma, 2018, 330, 52-64.	2.3	95
36	Shear strength prediction of steel fiber reinforced concrete beam using hybrid intelligence models: A new approach. Engineering Structures, 2018, 177, 244-255.	2.6	94

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37	Implementation of a hybrid MLP-FFA model for water level prediction of Lake Egirdir, Turkey. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1683-1697.	1.9	90
38	Shear strength of steel fiber-unconfined reinforced concrete beam simulation: Application of novel intelligent model. <i>Composite Structures</i> , 2019, 212, 230-242.	3.1	89
39	Evolutionary computational intelligence algorithm coupled with self-tuning predictive model for water quality index determination. <i>Journal of Hydrology</i> , 2020, 587, 124974.	2.3	88
40	Thin and sharp edges bodies-fluid interaction simulation using cut-cell immersed boundary method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 860-877.	1.5	87
41	The potential of hybrid evolutionary fuzzy intelligence model for suspended sediment concentration prediction. <i>Catena</i> , 2019, 174, 11-23.	2.2	82
42	Iran's Agriculture in the Anthropocene. <i>Earth's Future</i> , 2020, 8, e2020EF001547.	2.4	82
43	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
44	RBFNN versus FFNN for daily river flow forecasting at Johor River, Malaysia. <i>Neural Computing and Applications</i> , 2016, 27, 1533-1542.	3.2	79
45	Copula based assessment of meteorological drought characteristics: Regional investigation of Iran. <i>Agricultural and Forest Meteorology</i> , 2019, 276-277, 107611.	1.9	79
46	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. <i>Water (Switzerland)</i> , 2019, 11, 502.	1.2	78
47	Non-tuned machine learning approach for hydrological time series forecasting. <i>Neural Computing and Applications</i> , 2018, 30, 1479-1491.	3.2	76
48	Complementary data-intelligence model for river flow simulation. <i>Journal of Hydrology</i> , 2018, 567, 180-190.	2.3	76
49	Implementation of Univariate Paradigm for Streamflow Simulation Using Hybrid Data-Driven Model: Case Study in Tropical Region. <i>IEEE Access</i> , 2019, 7, 74471-74481.	2.6	76
50	Prediction of Risk Delay in Construction Projects Using a Hybrid Artificial Intelligence Model. <i>Sustainability</i> , 2020, 12, 1514.	1.6	76
51	Application of the Hybrid Artificial Neural Network Coupled with Rolling Mechanism and Grey Model Algorithms for Streamflow Forecasting Over Multiple Time Horizons. <i>Water Resources Management</i> , 2018, 32, 1883-1899.	1.9	75
52	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
53	Cross-Linked Chitosan-Glyoxal/Kaolin Clay Composite: Parametric Optimization for Color Removal and COD Reduction of Remazol Brilliant Blue R Dye. <i>Journal of Polymers and the Environment</i> , 2022, 30, 164-178.	2.4	74
54	Non-Linear Input Variable Selection Approach Integrated With Non-Tuned Data Intelligence Model for Streamflow Pattern Simulation. <i>IEEE Access</i> , 2019, 7, 141533-141548.	2.6	73

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55	Shear strength of SFRCB without stirrups simulation: implementation of hybrid artificial intelligence model. <i>Engineering With Computers</i> , 2020, 36, 1-11.	3.5	72
56	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
57	Estimation the Physical Variables of Rainwater Harvesting System Using Integrated GIS-Based Remote Sensing Approach. <i>Water Resources Management</i> , 2016, 30, 3299-3313.	1.9	71
58	The implementation of univariable scheme-based air temperature for solar radiation prediction: New development of dynamic evolving neural-fuzzy inference system model. <i>Applied Energy</i> , 2019, 241, 184-195.	5.1	70
59	Dew Point Temperature Estimation: Application of Artificial Intelligence Model Integrated with Nature-Inspired Optimization Algorithms. <i>Water (Switzerland)</i> , 2019, 11, 742.	1.2	70
60	A hybrid batâ€‘swarm algorithm for optimizing dam and reservoir operation. <i>Neural Computing and Applications</i> , 2019, 31, 8807-8821.	3.2	68
61	Heavy metal contamination prediction using ensemble model: Case study of Bay sedimentation, Australia. <i>Journal of Hazardous Materials</i> , 2021, 403, 123492.	6.5	68
62	Prediction of surface water total dissolved solids using hybridized wavelet-multigene genetic programming: New approach. <i>Journal of Hydrology</i> , 2020, 589, 125335.	2.3	67
63	Prediction of sediment heavy metal at the Australian Bays using newly developed hybrid artificial intelligence models. <i>Environmental Pollution</i> , 2021, 268, 115663.	3.7	67
64	Determination of compound channel apparent shear stress: application of novel data mining models. <i>Journal of Hydroinformatics</i> , 2019, 21, 798-811.	1.1	65
65	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
66	Electronic and magnetic properties of single-layer boron phosphide associated with materials processing defects. <i>Computational Materials Science</i> , 2019, 170, 109201.	1.4	63
67	Survey of different data-intelligent modeling strategies for forecasting air temperature using geographic information as model predictors. <i>Computers and Electronics in Agriculture</i> , 2018, 152, 242-260.	3.7	62
68	Incorporating synoptic-scale climate signals for streamflow modelling over the Mediterranean region using machine learning models. <i>Hydrological Sciences Journal</i> , 2019, 64, 1240-1252.	1.2	62
69	Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model. <i>Energy Reports</i> , 2021, 7, 136-157.	2.5	62
70	ForecastTBâ€‘An R Package as a Test-Bench for Time Series Forecastingâ€‘Application of Wind Speed and Solar Radiation Modeling. <i>Energies</i> , 2020, 13, 2578.	1.6	61
71	Learning from Multiple Models Using Artificial Intelligence to Improve Model Prediction Accuracies: Application to River Flows. <i>Water Resources Management</i> , 2018, 32, 4201-4215.	1.9	60
72	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

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73	Groundwater availability and water demand sustainability over the upper mega aquifers of Arabian Peninsula and west region of Iraq. <i>Environment, Development and Sustainability</i> , 2021, 23, 1-21.	2.7	59
74	Load-carrying capacity and mode failure simulation of beam-column joint connection: Application of self-tuning machine learning model. <i>Engineering Structures</i> , 2019, 194, 220-229.	2.6	58
75	Spatial and temporal risk quotient based river assessment for water resources management. <i>Environmental Pollution</i> , 2019, 248, 133-144.	3.7	58
76	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
77	Evaluating severityâ€‘areaâ€‘frequency (SAF) of seasonal droughts in Bangladesh under climate change scenarios. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 447-464.	1.9	58
78	Functionalization of remote sensing and on-site data for simulating surface water dissolved oxygen: Development of hybrid tree-based artificial intelligence models. <i>Marine Pollution Bulletin</i> , 2021, 170, 112639.	2.3	58
79	Drought index prediction using advanced fuzzy logic model: Regional case study over Kumaon in India. <i>PLoS ONE</i> , 2020, 15, e0233280.	1.1	58
80	Reliability-based structural design optimization: hybridized conjugate mean value approach. <i>Engineering With Computers</i> , 2021, 37, 381-394.	3.5	57
81	Forecasting surface water temperature in lakes: A comparison of approaches. <i>Journal of Hydrology</i> , 2020, 585, 124809.	2.3	56
82	Permeability prediction of porous media using a combination of computational fluid dynamics and hybrid machine learning methods. <i>Engineering With Computers</i> , 2021, 37, 3455-3471.	3.5	56
83	Efficiency evaluation of reverse osmosis desalination plant using hybridized multilayer perceptron with particle swarm optimization. <i>Environmental Science and Pollution Research</i> , 2020, 27, 15278-15291.	2.7	56
84	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. <i>Scientific Reports</i> , 2020, 10, 4684.	1.6	55
85	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 811-823.	1.5	54
86	A novel intelligent deep learning predictive model for meteorological drought forecasting. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 10441-10455.	3.3	54
87	Reinforced concrete deep beam shear strength capacity modelling using an integrative bio-inspired algorithm with an artificial intelligence model. <i>Engineering With Computers</i> , 2022, 38, 15-28.	3.5	53
88	Hourly River Flow Forecasting: Application of Emotional Neural Network Versus Multiple Machine Learning Paradigms. <i>Water Resources Management</i> , 2020, 34, 1075-1091.	1.9	53
89	Hybridization of artificial intelligence models with nature inspired optimization algorithms for lake water level prediction and uncertainty analysis. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2193-2208.	3.4	53
90	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. <i>Scientific Reports</i> , 2021, 11, 3435.	1.6	52

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91	Manganese (Mn) removal prediction using extreme gradient model. <i>Ecotoxicology and Environmental Safety</i> , 2020, 204, 111059.	2.9	51
92	Hybridized Extreme Learning Machine Model with Salp Swarm Algorithm: A Novel Predictive Model for Hydrological Application. <i>Complexity</i> , 2020, 2020, 1-14.	0.9	49
93	Metaheuristic Optimization Algorithms Hybridized With Artificial Intelligence Model for Soil Temperature Prediction: Novel Model. <i>IEEE Access</i> , 2020, 8, 51884-51904.	2.6	48
94	Proposition of New Ensemble Data-Intelligence Models for Surface Water Quality Prediction. <i>IEEE Access</i> , 2021, 9, 108527-108541.	2.6	48
95	Pressure drops of fresh cemented paste backfills through coupled test loop experiments and machine learning techniques. <i>Powder Technology</i> , 2020, 361, 748-758.	2.1	47
96	Changes in Climatic Water Availability and Crop Water Demand for Iraq Region. <i>Sustainability</i> , 2020, 12, 3437.	1.6	47
97	Annual Rainfall Forecasting Using Hybrid Artificial Intelligence Model: Integration of Multilayer Perceptron with Whale Optimization Algorithm. <i>Water Resources Management</i> , 2020, 34, 733-746.	1.9	46
98	The influence of climatic inputs on stream-flow pattern forecasting: case study of Upper Senegal River. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	45
99	RBFNN-based model for heavy metal prediction for different climatic and pollution conditions. <i>Neural Computing and Applications</i> , 2017, 28, 1991-2003.	3.2	44
100	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 70-89.	1.5	44
101	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
102	Global Solar Radiation Prediction Using Hybrid Online Sequential Extreme Learning Machine Model. <i>Energies</i> , 2018, 11, 3415.	1.6	41
103	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. <i>Water (Switzerland)</i> , 2018, 10, 807.	1.2	41
104	Prediction of copper ions adsorption by attapulgitite adsorbent using tuned-artificial intelligence model. <i>Chemosphere</i> , 2021, 276, 130162.	4.2	41
105	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.	1.9	41
106	Smart Water Technology for Efficient Water Resource Management: A Review. <i>Energies</i> , 2020, 13, 6268.	1.6	40
107	Deep Learning for Prediction of Water Quality Index Classification: Tropical Catchment Environmental Assessment. <i>Natural Resources Research</i> , 2021, 30, 4235-4254.	2.2	40
108	Evaporation process modelling over northern Iran: application of an integrative data-intelligence model with the krill herd optimization algorithm. <i>Hydrological Sciences Journal</i> , 2019, 64, 1843-1856.	1.2	39

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109	Investigation of silica polymorphs stratified in siliceous geode using FTIR and XRD methods. <i>Materials Chemistry and Physics</i> , 2019, 228, 45-50.	2.0	39
110	On the complexities of sediment load modeling using integrative machine learning: Application of the great river of LoÁza in Puerto Rico. <i>Journal of Hydrology</i> , 2020, 585, 124759.	2.3	39
111	Forecasting weekly reference evapotranspiration using Auto Encoder Decoder Bidirectional LSTM model hybridized with a Boruta-CatBoost input optimizer. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107121.	3.7	39
112	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 878-891.	1.5	38
113	Experimental and Numerical Analysis for Earth-Fill Dam Seepage. <i>Sustainability</i> , 2020, 12, 2490.	1.6	38
114	Precipitation pattern modeling using cross-station perception: regional investigation. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	37
115	Laundry wastewater treatment using a combination of sand filter, bio-char and teff straw media. <i>Scientific Reports</i> , 2019, 9, 18709.	1.6	36
116	River water level prediction in coastal catchment using hybridized relevance vector machine model with improved grasshopper optimization. <i>Journal of Hydrology</i> , 2021, 598, 126477.	2.3	36
117	The Feasibility of Integrative Radial Basis M5Tree Predictive Model for River Suspended Sediment Load Simulation. <i>Water Resources Management</i> , 2019, 33, 4471-4490.	1.9	35
118	Variational mode decomposition based random forest model for solar radiation forecasting: New emerging machine learning technology. <i>Energy Reports</i> , 2021, 7, 6700-6717.	2.5	34
119	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
120	An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction. <i>Scientific Reports</i> , 2022, 12, 4934.	1.6	33
121	What Is the Potential of Integrating Phase Space Reconstruction with SVM-FFA Data-Intelligence Model? Application of Rainfall Forecasting over Regional Scale. <i>Water Resources Management</i> , 2018, 32, 3935-3959.	1.9	32
122	Particulate matter concentration from open-cut coal mines: A hybrid machine learning estimation. <i>Environmental Pollution</i> , 2020, 263, 114517.	3.7	32
123	Analysis of dry and wet climate characteristics at Uttarakhand (India) using effective drought index. <i>Natural Hazards</i> , 2021, 105, 1643-1662.	1.6	32
124	Lake water level modeling using newly developed hybrid data intelligence model. <i>Theoretical and Applied Climatology</i> , 2020, 141, 1285-1300.	1.3	31
125	The Implementation of a Hybrid Model for Hilly Sub-Watershed Prioritization Using Morphometric Variables: Case Study in India. <i>Water (Switzerland)</i> , 2019, 11, 1138.	1.2	30
126	A Novel Hybrid Evolutionary Data-Intelligence Algorithm for Irrigation and Power Production Management: Application to Multi-Purpose Reservoir Systems. <i>Sustainability</i> , 2019, 11, 1953.	1.6	30

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127	Open Channel Sluice Gate Scouring Parameters Prediction: Different Scenarios of Dimensional and Non-Dimensional Input Parameters. <i>Water (Switzerland)</i> , 2019, 11, 353.	1.2	30
128	Determination of biochemical oxygen demand and dissolved oxygen for semi-arid river environment: application of soft computing models. <i>Environmental Science and Pollution Research</i> , 2019, 26, 923-937.	2.7	30
129	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. <i>Information Sciences</i> , 2021, 570, 172-184.	4.0	30
130	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
131	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
132	Improving daily stochastic streamflow prediction: comparison of novel hybrid data-mining algorithms. <i>Hydrological Sciences Journal</i> , 2021, 66, 1457-1474.	1.2	29
133	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
134	Computational assessment of groundwater salinity distribution within coastal multi-aquifers of Bangladesh. <i>Scientific Reports</i> , 2022, 12, .	1.6	29
135	Drought interval simulation using functional data analysis. <i>Journal of Hydrology</i> , 2019, 579, 124141.	2.3	28
136	Surrogate permeability modelling of low-permeable rocks using convolutional neural networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 366, 113103.	3.4	28
137	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
138	Integration of extreme gradient boosting feature selection approach with machine learning models: application of weather relative humidity prediction. <i>Neural Computing and Applications</i> , 2022, 34, 515-533.	3.2	28
139	Boosted artificial intelligence model using improved alpha-guided grey wolf optimizer for groundwater level prediction: Comparative study and insight for federated learning technology. <i>Journal of Hydrology</i> , 2022, 606, 127384.	2.3	28
140	Discharge coefficient prediction of canal radial gate using neurocomputing models: an investigation of free and submerged flow scenarios. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 1-19.	1.5	27
141	Modeling wetted areas of moisture bulb for drip irrigation systems: An enhanced empirical model and artificial neural network. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105767.	3.7	26
142	The Hybridization of Ensemble Empirical Mode Decomposition with Forecasting Models: Application of Short-Term Wind Speed and Power Modeling. <i>Energies</i> , 2020, 13, 1666.	1.6	26
143	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction. <i>IEEE Access</i> , 2020, 8, 83347-83358.	2.6	26
144	Emerging Technologies of Deep Learning Models Development for Pavement Temperature Prediction. <i>IEEE Access</i> , 2021, 9, 23840-23849.	2.6	26

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145	Optimization of Reservoir Operation using New Hybrid Algorithm. KSCE Journal of Civil Engineering, 2018, 22, 4668-4680.	0.9	25
146	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. Hydrological Sciences Journal, 2020, 65, 1145-1157.	1.2	25
147	Development of artificial intelligence models for well groundwater quality simulation: Different modeling scenarios. PLoS ONE, 2021, 16, e0251510.	1.1	25
148	Effect of land use land cover changes on land surface temperature during 1984â€“2020: a case study of Baghdad city using landsat image. Natural Hazards, 2022, 112, 1223-1246.	1.6	25
149	Modern Artificial Intelligence Model Development for Undergraduate Student Performance Prediction: An Investigation on Engineering Mathematics Courses. IEEE Access, 2020, 8, 136697-136724.	2.6	24
150	Energy analysis using carbon and metallic oxides-based nanomaterials inside a solar collector. Energy Reports, 2020, 6, 1373-1381.	2.5	24
151	Estimation of triangular side orifice discharge coefficient under a free flow condition using data-driven models. Flow Measurement and Instrumentation, 2021, 77, 101878.	1.0	24
152	Modeling soil temperature using air temperature features in diverse climatic conditions with complementary machine learning models. Computers and Electronics in Agriculture, 2021, 185, 106158.	3.7	24
153	Evaluating Physical and Fiscal Water Leakage in Water Distribution System. Water (Switzerland), 2019, 11, 2091.	1.2	23
154	Long-term modelling of wind speeds using six different heuristic artificial intelligence approaches. International Journal of Climatology, 2019, 39, 3543-3557.	1.5	23
155	Construction of functional data analysis modeling strategy for global solar radiation prediction: application of cross-station paradigm. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 1165-1181.	1.5	22
156	Late Age Dynamic Strength of High-Volume Fly Ash Concrete with Nano-Silica and Polypropylene Fibres. Crystals, 2020, 10, 243.	1.0	22
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158	An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. Energy Reports, 2021, 7, 7854-7877.	2.5	22
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