Zaher Mundher Yaseen

List of Publications by Year
in descending order

289 papers	12,789 citations	19657 61 h-index	40979 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. Journal of Hydrology, 2019, 569, 387-408.	5.4	470
2	Artificial intelligence based models for stream-flow forecasting: 2000–2015. Journal of Hydrology, 2015, 530, 829-844.	5.4	392
3	A survey on river water quality modelling using artificial intelligence models: 2000–2020. Journal of Hydrology, 2020, 585, 124670.	5.4	314
4	Predicting compressive strength of lightweight foamed concrete using extreme learning machine model. Advances in Engineering Software, 2018, 115, 112-125.	3.8	288
5	Stream-flow forecasting using extreme learning machines: A case study in a semi-arid region in Iraq. Journal of Hydrology, 2016, 542, 603-614.	5.4	257
6	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. Journal of Hydrology, 2017, 554, 263-276.	5.4	192
7	An insight into machine learning models era in simulating soil, water bodies and adsorption heavy metals: Review, challenges and solutions. Chemosphere, 2021, 277, 130126.	8.2	175
8	River water quality index prediction and uncertainty analysis: A comparative study of machine learning models. Journal of Environmental Chemical Engineering, 2021, 9, 104599.	6.7	164
9	Application of artificial intelligence (AI) techniques in water quality index prediction: a case study in tropical region, Malaysia. Neural Computing and Applications, 2017, 28, 893-905.	5.6	160
10	Zwitterion composite chitosan-epichlorohydrin/zeolite for adsorption of methylene blue and reactive red 120 dyes. International Journal of Biological Macromolecules, 2020, 163, 756-765.	7.5	148
11	Reference evapotranspiration prediction using hybridized fuzzy model with firefly algorithm: Regional case study in Burkina Faso. Agricultural Water Management, 2018, 208, 140-151.	5.6	142
12	Pan evaporation prediction using a hybrid multilayer perceptron-firefly algorithm (MLP-FFA) model: case study in North Iran. Theoretical and Applied Climatology, 2018, 133, 1119-1131.	2.8	134
13	Quantifying hourly suspended sediment load using data mining models: Case study of a glacierized Andean catchment in Chile. Journal of Hydrology, 2018, 567, 165-179.	5.4	133
14	ANN Based Sediment Prediction Model Utilizing Different Input Scenarios. Water Resources Management, 2015, 29, 1231-1245.	3.9	132
15	Statistical modeling and mechanistic pathway for methylene blue dye removal by high surface area and mesoporous grass-based activated carbon using K2CO3 activator. Journal of Environmental Chemical Engineering, 2021, 9, 105530.	6.7	130
16	Development of artificial intelligence for modeling wastewater heavy metal removal: State of the art, application assessment and possible future research. Journal of Cleaner Production, 2020, 250, 119473.	9.3	123
17	Deep Learning Data-Intelligence Model Based on Adjusted Forecasting Window Scale: Application in Daily Streamflow Simulation. IEEE Access, 2020, 8, 32632-32651.	4.2	121
18	Development of multivariate adaptive regression spline integrated with differential evolution model for streamflow simulation. Journal of Hydrology, 2019, 573, 1-12.	5.4	120

#	Article	IF	Citations
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.	7.1	117
20	Groundwater level prediction using machine learning models: A comprehensive review. Neurocomputing, 2022, 489, 271-308.	5.9	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.	5.4	114
22	Genetic programming in water resources engineering: A state-of-the-art review. Journal of Hydrology, 2018, 566, 643-667.	5.4	110
23	Seasonal Drought Pattern Changes Due to Climate Variability: Case Study in Afghanistan. Water (Switzerland), 2019, 11, 1096.	2.7	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.	2.8	108
25	Hybrid Adaptive Neuro-Fuzzy Models for Water Quality Index Estimation. Water Resources Management, 2018, 32, 2227-2245.	3.9	107
26	Application of soft computing based hybrid models in hydrological variables modeling: a comprehensive review. Theoretical and Applied Climatology, 2017, 128, 875-903.	2.8	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.	7.7	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.	3.1	104
29	Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks. Scientific Reports, 2021, 11, 17497.	3.3	103
30	Compressive strength of Foamed Cellular Lightweight Concrete simulation: New development of hybrid artificial intelligence model. Construction and Building Materials, 2020, 230, 117048.	7.2	102
31	Past, present and prospect of an Artificial Intelligence (AI) based model for sediment transport prediction. Journal of Hydrology, 2016, 541, 902-913.	5.4	101
32	Rainfall Pattern Forecasting Using Novel Hybrid Intelligent Model Based ANFIS-FFA. Water Resources Management, 2018, 32, 105-122.	3.9	101
33	Enhancing Long-Term Streamflow Forecasting and Predicting using Periodicity Data Component: Application of Artificial Intelligence. Water Resources Management, 2016, 30, 4125-4151.	3.9	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.	5.4	99
35	Non-tuned data intelligent model for soil temperature estimation: A new approach. Geoderma, 2018, 330, 52-64.	5.1	95
36	Shear strength prediction of steel fiber reinforced concrete beam using hybrid intelligence models: A new approach. Engineering Structures, 2018, 177, 244-255.	5.3	94

#	ARTICLE	IF	CITATIONS
37	Implementation of a hybrid MLP-FFA model for water level prediction of Lake Egirdir, Turkey. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1683-1697.	4.0	90
38	Shear strength of steel fiber-unconfined reinforced concrete beam simulation: Application of novel intelligent model. Composite Structures, 2019, 212, 230-242.	5.8	89
39	Evolutionary computational intelligence algorithm coupled with self-tuning predictive model for water quality index determination. Journal of Hydrology, 2020, 587, 124974.	5.4	88
40	Thin and sharp edges bodies-fluid interaction simulation using cut-cell immersed boundary method. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 860-877.	3.1	87
41	The potential of hybrid evolutionary fuzzy intelligence model for suspended sediment concentration prediction. Catena, 2019, 174, 11-23.	5.0	82
42	Iran's Agriculture in the Anthropocene. Earth's Future, 2020, 8, e2020EF001547.	6.3	82
43	The potential of novel data mining models for global solar radiation prediction. International Journal of Environmental Science and Technology, 2019, 16, 7147-7164.	3.5	81
44	RBFNN versus FFNN for daily river flow forecasting at Johor River, Malaysia. Neural Computing and Applications, 2016, 27, 1533-1542.	5.6	79
45	Copula based assessment of meteorological drought characteristics: Regional investigation of Iran. Agricultural and Forest Meteorology, 2019, 276-277, 107611.	4.8	79
46	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. Water (Switzerland), 2019, 11, 502.	2.7	78
47	Non-tuned machine learning approach for hydrological time series forecasting. Neural Computing and Applications, 2018, 30, 1479-1491.	5.6	76
48	Complementary data-intelligence model for river flow simulation. Journal of Hydrology, 2018, 567, 180-190.	5.4	76
49	Implementation of Univariate Paradigm for Streamflow Simulation Using Hybrid Data-Driven Model: Case Study in Tropical Region. IEEE Access, 2019, 7, 74471-74481.	4.2	76
50	Prediction of Risk Delay in Construction Projects Using a Hybrid Artificial Intelligence Model. Sustainability, 2020, 12, 1514.	3.2	76
51	Application of the Hybrid Artificial Neural Network Coupled with Rolling Mechanism and Grey Model Algorithms for Streamflow Forecasting Over Multiple Time Horizons. Water Resources Management, 2018, 32, 1883-1899.	3.9	75
52	Modeling monthly pan evaporation process over the Indian central Himalayas: application of multiple learning artificial intelligence model. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 323-338.	3.1	75
53	Cross-Linked Chitosan-Glyoxal/Kaolin Clay Composite: Parametric Optimization for Color Removal and COD Reduction of Remazol Brilliant Blue R Dye. Journal of Polymers and the Environment, 2022, 30, 164-178.	5.0	74
54	Non-Linear Input Variable Selection Approach Integrated With Non-Tuned Data Intelligence Model for Streamflow Pattern Simulation. IEEE Access, 2019, 7, 141533-141548.	4.2	73

#	Article	IF	Citations
55	Shear strength of SFRCB without stirrups simulation: implementation of hybrid artificial intelligence model. Engineering With Computers, 2020, 36, 1-11.	6.1	72
56	River suspended sediment load prediction based on river discharge information: application of newly developed data mining models. Hydrological Sciences Journal, 2020, 65, 624-637.	2.6	72
57	Estimation the Physical Variables of Rainwater Harvesting System Using Integrated GIS-Based Remote Sensing Approach. Water Resources Management, 2016, 30, 3299-3313.	3.9	71
58	The implementation of univariable scheme-based air temperature for solar radiation prediction: New development of dynamic evolving neural-fuzzy inference system model. Applied Energy, 2019, 241, 184-195.	10.1	70
59	Dew Point Temperature Estimation: Application of Artificial Intelligence Model Integrated with Nature-Inspired Optimization Algorithms. Water (Switzerland), 2019, 11, 742.	2.7	70
60	A hybrid bat–swarm algorithm for optimizing dam and reservoir operation. Neural Computing and Applications, 2019, 31, 8807-8821.	5.6	68
61	Heavy metal contamination prediction using ensemble model: Case study of Bay sedimentation, Australia. Journal of Hazardous Materials, 2021, 403, 123492.	12.4	68
62	Prediction of surface water total dissolved solids using hybridized wavelet-multigene genetic programming: New approach. Journal of Hydrology, 2020, 589, 125335.	5.4	67
63	Prediction of sediment heavy metal at the Australian Bays using newly developed hybrid artificial intelligence models. Environmental Pollution, 2021, 268, 115663.	7.5	67
64	Determination of compound channel apparent shear stress: application of novel data mining models. Journal of Hydroinformatics, 2019, 21, 798-811.	2.4	65
65	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. Water (Switzerland), 2018, 10, 1124.	2.7	64
66	Electronic and magnetic properties of single-layer boron phosphide associated with materials processing defects. Computational Materials Science, 2019, 170, 109201.	3.0	63
67	Survey of different data-intelligent modeling strategies for forecasting air temperature using geographic information as model predictors. Computers and Electronics in Agriculture, 2018, 152, 242-260.	7.7	62
68	Incorporating synoptic-scale climate signals for streamflow modelling over the Mediterranean region using machine learning models. Hydrological Sciences Journal, 2019, 64, 1240-1252.	2.6	62
69	Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model. Energy Reports, 2021, 7, 136-157.	5.1	62
70	ForecastTB—An R Package as a Test-Bench for Time Series Forecasting—Application of Wind Speed and Solar Radiation Modeling. Energies, 2020, 13, 2578.	3.1	61
71	Learning from Multiple Models Using Artificial Intelligence to Improve Model Prediction Accuracies: Application to River Flows. Water Resources Management, 2018, 32, 4201-4215.	3.9	60
72	Global Solar Radiation Estimation and Climatic Variability Analysis Using Extreme Learning Machine Based Predictive Model. IEEE Access, 2020, 8, 12026-12042.	4.2	59

#	Article	IF	Citations
73	Groundwater availability and water demand sustainability over the upper mega aquifers of Arabian Peninsula and west region of Iraq. Environment, Development and Sustainability, 2021, 23, 1-21.	5.0	59
74	Load-carrying capacity and mode failure simulation of beam-column joint connection: Application of self-tuning machine learning model. Engineering Structures, 2019, 194, 220-229.	5.3	58
75	Spatial and temporal risk quotient based river assessment for water resources management. Environmental Pollution, 2019, 248, 133-144.	7.5	58
76	Application of newly developed ensemble machine learning models for daily suspended sediment load prediction and related uncertainty analysis. Hydrological Sciences Journal, 2020, 65, 2022-2042.	2.6	58
77	Evaluating severity–area–frequency (SAF) of seasonal droughts in Bangladesh under climate change scenarios. Stochastic Environmental Research and Risk Assessment, 2020, 34, 447-464.	4.0	58
78	Functionalization of remote sensing and on-site data for simulating surface water dissolved oxygen: Development of hybrid tree-based artificial intelligence models. Marine Pollution Bulletin, 2021, 170, 112639.	5.0	58
79	Drought index prediction using advanced fuzzy logic model: Regional case study over Kumaon in India. PLoS ONE, 2020, 15, e0233280.	2.5	58
80	Reliability-based structural design optimization: hybridized conjugate mean value approach. Engineering With Computers, 2021, 37, 381-394.	6.1	57
81	Forecasting surface water temperature in lakes: A comparison of approaches. Journal of Hydrology, 2020, 585, 124809.	5.4	56
82	Permeability prediction of porous media using a combination of computational fluid dynamics and hybrid machine learning methods. Engineering With Computers, 2021, 37, 3455-3471.	6.1	56
83	Efficiency evaluation of reverse osmosis desalination plant using hybridized multilayer perceptron with particle swarm optimization. Environmental Science and Pollution Research, 2020, 27, 15278-15291.	5.3	56
84	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. Scientific Reports, 2020, 10, 4684.	3.3	55
85	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 811-823.	3.1	54
86	A novel intelligent deep learning predictive model for meteorological drought forecasting. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 10441-10455.	4.9	54
87	Reinforced concrete deep beam shear strength capacity modelling using an integrative bio-inspired algorithm with an artificial intelligence model. Engineering With Computers, 2022, 38, 15-28.	6.1	53
88	Hourly River Flow Forecasting: Application of Emotional Neural Network Versus Multiple Machine Learning Paradigms. Water Resources Management, 2020, 34, 1075-1091.	3.9	53
89	Hybridization of artificial intelligence models with nature inspired optimization algorithms for lake water level prediction and uncertainty analysis. AEJ - Alexandria Engineering Journal, 2021, 60, 2193-2208.	6.4	53
90	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. Scientific Reports, 2021, 11, 3435.	3.3	52

#	Article	IF	Citations
91	Manganese (Mn) removal prediction using extreme gradient model. Ecotoxicology and Environmental Safety, 2020, 204, 111059.	6.0	51
92	Hybridized Extreme Learning Machine Model with Salp Swarm Algorithm: A Novel Predictive Model for Hydrological Application. Complexity, 2020, 2020, 1-14.	1.6	49
93	Metaheuristic Optimization Algorithms Hybridized With Artificial Intelligence Model for Soil Temperature Prediction: Novel Model. IEEE Access, 2020, 8, 51884-51904.	4.2	48
94	Proposition of New Ensemble Data-Intelligence Models for Surface Water Quality Prediction. IEEE Access, 2021, 9, 108527-108541.	4.2	48
95	Pressure drops of fresh cemented paste backfills through coupled test loop experiments and machine learning techniques. Powder Technology, 2020, 361, 748-758.	4.2	47
96	Changes in Climatic Water Availability and Crop Water Demand for Iraq Region. Sustainability, 2020, 12, 3437.	3.2	47
97	Annual Rainfall Forecasting Using Hybrid Artificial Intelligence Model: Integration of Multilayer Perceptron with Whale Optimization Algorithm. Water Resources Management, 2020, 34, 733-746.	3.9	46
98	The influence of climatic inputs on stream-flow pattern forecasting: case study of Upper Senegal River. Environmental Earth Sciences, 2018, 77, 1.	2.7	45
99	RBFNN-based model for heavy metal prediction for different climatic and pollution conditions. Neural Computing and Applications, 2017, 28, 1991-2003.	5.6	44
100	Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 70-89.	3.1	44
101	Simulation of the depth scouring downstream sluice gate: The validation of newly developed data-intelligent models. Journal of Hydro-Environment Research, 2020, 29, 20-30.	2.2	42
102	Global Solar Radiation Prediction Using Hybrid Online Sequential Extreme Learning Machine Model. Energies, 2018, 11, 3415.	3.1	41
103	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. Water (Switzerland), 2018, 10, 807.	2.7	41
104	Prediction of copper ions adsorption by attapulgite adsorbent using tuned-artificial intelligence model. Chemosphere, 2021, 276, 130162.	8.2	41
105	Development of new machine learning model for streamflow prediction: case studies in Pakistan. Stochastic Environmental Research and Risk Assessment, 2022, 36, 999-1033.	4.0	41
106	Smart Water Technology for Efficient Water Resource Management: A Review. Energies, 2020, 13, 6268.	3.1	40
107	Deep Learning for Prediction of Water Quality Index Classification: Tropical Catchment Environmental Assessment. Natural Resources Research, 2021, 30, 4235-4254.	4.7	40
108	Evaporation process modelling over northern Iran: application of an integrative data-intelligence model with the krill herd optimization algorithm. Hydrological Sciences Journal, 2019, 64, 1843-1856.	2.6	39

#	Article	IF	Citations
109	Investigation of silica polymorphs stratified in siliceous geode using FTIR and XRD methods. Materials Chemistry and Physics, 2019, 228, 45-50.	4.0	39
110	On the complexities of sediment load modeling using integrative machine learning: Application of the great river of LoÃza in Puerto Rico. Journal of Hydrology, 2020, 585, 124759.	5.4	39
111	Forecasting weekly reference evapotranspiration using Auto Encoder Decoder Bidirectional LSTM model hybridized with a Boruta-CatBoost input optimizer. Computers and Electronics in Agriculture, 2022, 198, 107121.	7.7	39
112	Viability of the advanced adaptive neuro-fuzzy inference system model on reservoir evaporation process simulation: case study of Nasser Lake in Egypt. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 878-891.	3.1	38
113	Experimental and Numerical Analysis for Earth-Fill Dam Seepage. Sustainability, 2020, 12, 2490.	3.2	38
114	Precipitation pattern modeling using cross-station perception: regional investigation. Environmental Earth Sciences, 2018, 77, 1.	2.7	37
115	Laundry wastewater treatment using a combination of sand filter, bio-char and teff straw media. Scientific Reports, 2019, 9, 18709.	3.3	36
116	River water level prediction in coastal catchment using hybridized relevance vector machine model with improved grasshopper optimization. Journal of Hydrology, 2021, 598, 126477.	5.4	36
117	The Feasibility of Integrative Radial Basis M5Tree Predictive Model for River Suspended Sediment Load Simulation. Water Resources Management, 2019, 33, 4471-4490.	3.9	35
118	Variational mode decomposition based random forest model for solar radiation forecasting: New emerging machine learning technology. Energy Reports, 2021, 7, 6700-6717.	5.1	34
119	The Application of Soft Computing ModelsÂand Empirical Formulations for Hydraulic Structure Scouring Depth Simulation: A Comprehensive Review, Assessment and Possible Future Research Direction. Archives of Computational Methods in Engineering, 2021, 28, 423-447.	10.2	33
120	An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction. Scientific Reports, 2022, 12, 4934.	3.3	33
121	What Is the Potential of Integrating Phase Space Reconstruction with SVM-FFA Data-Intelligence Model? Application of Rainfall Forecasting over Regional Scale. Water Resources Management, 2018, 32, 3935-3959.	3.9	32
122	Particulate matter concentration from open-cut coal mines: A hybrid machine learning estimation. Environmental Pollution, 2020, 263, 114517.	7.5	32
123	Analysis of dry and wet climate characteristics at Uttarakhand (India) using effective drought index. Natural Hazards, 2021, 105, 1643-1662.	3.4	32
124	Lake water level modeling using newly developed hybrid data intelligence model. Theoretical and Applied Climatology, 2020, 141, 1285-1300.	2.8	31
125	The Implementation of a Hybrid Model for Hilly Sub-Watershed Prioritization Using Morphometric Variables: Case Study in India. Water (Switzerland), 2019, 11, 1138.	2.7	30
126	A Novel Hybrid Evolutionary Data-Intelligence Algorithm for Irrigation and Power Production Management: Application to Multi-Purpose Reservoir Systems. Sustainability, 2019, 11, 1953.	3.2	30

#	Article	IF	Citations
127	Open Channel Sluice Gate Scouring Parameters Prediction: Different Scenarios of Dimensional and Non-Dimensional Input Parameters. Water (Switzerland), 2019, 11, 353.	2.7	30
128	Determination of biochemical oxygen demand and dissolved oxygen for semi-arid river environment: application of soft computing models. Environmental Science and Pollution Research, 2019, 26, 923-937.	5.3	30
129	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. Information Sciences, 2021, 570, 172-184.	6.9	30
130	Pan Evaporation Estimation in Uttarakhand and Uttar Pradesh States, India: Validity of an Integrative Data Intelligence Model. Atmosphere, 2020, 11, 553.	2.3	29
131	Shallow Foundation Settlement Quantification: Application of Hybridized Adaptive Neuro-Fuzzy Inference System Model. Advances in Civil Engineering, 2020, 2020, 1-14.	0.7	29
132	Improving daily stochastic streamflow prediction: comparison of novel hybrid data-mining algorithms. Hydrological Sciences Journal, 2021, 66, 1457-1474.	2.6	29
133	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. Agriculture (Switzerland), 2021, 11, 1288.	3.1	29
134	Computational assessment of groundwater salinity distribution within coastal multi-aquifers of Bangladesh. Scientific Reports, 2022, 12, .	3.3	29
135	Drought interval simulation using functional data analysis. Journal of Hydrology, 2019, 579, 124141.	5.4	28
136	Surrogate permeability modelling of low-permeable rocks using convolutional neural networks. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113103.	6.6	28
137	New stochastic modeling strategy on the prediction enhancement of pier scour depth in cohesive bed materials. Journal of Hydroinformatics, 2020, 22, 457-472.	2.4	28
138	Integration of extreme gradient boosting feature selection approach with machine learning models: application of weather relative humidity prediction. Neural Computing and Applications, 2022, 34, 515-533.	5.6	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. Journal of Hydrology, 2022, 606, 127384.	5.4	28
140	Discharge coefficient prediction of canal radial gate using neurocomputing models: an investigation of free and submerged flow scenarios. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 1-19.	3.1	27
141	Modeling wetted areas of moisture bulb for drip irrigation systems: An enhanced empirical model and artificial neural network. Computers and Electronics in Agriculture, 2020, 178, 105767.	7.7	26
142	The Hybridization of Ensemble Empirical Mode Decomposition with Forecasting Models: Application of Short-Term Wind Speed and Power Modeling. Energies, 2020, 13, 1666.	3.1	26
143	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction. IEEE Access, 2020, 8, 83347-83358.	4.2	26
144	Emerging Technologies of Deep Learning Models Development for Pavement Temperature Prediction. IEEE Access, 2021, 9, 23840-23849.	4.2	26

#	Article	IF	Citations
145	Optimization of Reservoir Operation using New Hybrid Algorithm. KSCE Journal of Civil Engineering, 2018, 22, 4668-4680.	1.9	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.	2.6	25
147	Development of artificial intelligence models for well groundwater quality simulation: Different modeling scenarios. PLoS ONE, 2021, 16, e0251510.	2.5	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.	3.4	25
149	Modern Artificial Intelligence Model Development for Undergraduate Student Performance Prediction: An Investigation on Engineering Mathematics Courses. IEEE Access, 2020, 8, 136697-136724.	4.2	24
150	Energy analysis using carbon and metallic oxides-based nanomaterials inside a solar collector. Energy Reports, 2020, 6, 1373-1381.	5.1	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.	2.0	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.	7.7	24
153	Evaluating Physical and Fiscal Water Leakage in Water Distribution System. Water (Switzerland), 2019, 11, 2091.	2.7	23
154	Longâ€term modelling of wind speeds using six different heuristic artificial intelligence approaches. International Journal of Climatology, 2019, 39, 3543-3557.	3.5	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.	3.1	22
156	Late Age Dynamic Strength of High-Volume Fly Ash Concrete with Nano-Silica and Polypropylene Fibres. Crystals, 2020, 10, 243.	2.2	22
157	Modelling infiltration rates in permeable stormwater channels using soft computing techniques*. Irrigation and Drainage, 2021, 70, 117-130.	1.7	22
158	An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. Energy Reports, 2021, 7, 7854-7877.	5.1	22
159	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. Powder Technology, 2022, 395, 267-279.	4.2	21
160	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1585-1612.	3.1	21
161	Trend analysis of streamflow with different time scales: a case study of the upper Senegal River. ISH Journal of Hydraulic Engineering, 2018, 24, 105-114.	2.1	20
162	Determination and Assessment of the Toxic Heavy Metal Elements Abstracted from the Traditional Plant Cosmetics and Medical Remedies: Case Study of Libya. International Journal of Environmental Research and Public Health, 2019, 16, 1957.	2.6	20

#	Article	IF	Citations
163	Optimized parameter estimation of a PEMFC model based on improved Grass Fibrous Root Optimization Algorithm. Energy Reports, 2020, 6, 1510-1519.	5.1	20
164	Newly explored machine learning model for river flow time series forecasting at Mary River, Australia. Environmental Monitoring and Assessment, 2020, 192, 761.	2.7	19
165	Changes in monsoon rainfall distribution of Bangladesh using quantile regression model. Theoretical and Applied Climatology, 2020, 142, 1329-1342.	2.8	19
166	Application of nature-inspired optimization algorithms to ANFIS model to predict wave-induced scour depth around pipelines. Journal of Hydroinformatics, 2020, 22, 1425-1451.	2.4	19
167	Development of Advanced Computer Aid Model for Shear Strength of Concrete Slender Beam Prediction. Applied Sciences (Switzerland), 2020, 10, 3811.	2.5	19
168	State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations. Sustainability, 2020, 12, 1676.	3.2	19
169	The development of evolutionary computing model for simulating reference evapotranspiration over Peninsular Malaysia. Theoretical and Applied Climatology, 2021, 144, 1419-1434.	2.8	19
170	The Capacity of the Hybridizing Wavelet Transformation Approach With Data-Driven Models for Modeling Monthly-Scale Streamflow. IEEE Access, 2020, 8, 101993-102006.	4.2	18
171	The assessment of emerging data-intelligence technologies for modeling Mg^{+2} and $SO4^{-2}$ surface water quality. Journal of Environmental Management, 2021, 300, 113774.	7.8	18
172	Prediction of Potential Evapotranspiration Using Temperature-Based Heuristic Approaches. Sustainability, 2021, 13, 297.	3.2	18
173	Limited descent-based mean value method for inverse reliability analysis. Engineering With Computers, 2019, 35, 1237-1249.	6.1	17
174	Strategic Assessment of Dam Overtopping Reliability Using a Stochastic Process Approach. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	1.9	17
175	Assessing the Effectiveness of Using Recharge Wells for Controlling the Saltwater Intrusion in Unconfined Coastal Aquifers with Sloping Beds: Numerical Study. Sustainability, 2020, 12, 2685.	3.2	17
176	Investigation into the permeability and strength of pervious geopolymer concrete containing coated biomass aggregate material. Journal of Materials Research and Technology, 2021, 15, 2075-2087.	5.8	17
177	Deep learning versus gradient boosting machine for pan evaporation prediction. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 570-587.	3.1	17
178	Long-term multi-step ahead forecasting of root zone soil moisture in different climates: Novel ensemble-based complementary data-intelligent paradigms. Agricultural Water Management, 2022, 269, 107679.	5.6	17
179	Performance of full-scale coagulation-flocculation/DAF as a pre-treatment technology for biodegradability enhancement of high strength wastepaper-recycling wastewater. Environmental Science and Pollution Research, 2018, 25, 33978-33991.	5.3	16
180	Fiberglass-Reinforced Polyester Composites Fatigue Prediction Using Novel Data-Intelligence Model. Arabian Journal for Science and Engineering, 2019, 44, 3343-3356.	3.0	16

#	ARTICLE	IF	CITATIONS
181	Predicting reinforcing bar development length using polynomial chaos expansions. Engineering Structures, 2019, 195, 524-535.	5.3	16
182	FAO CROPWAT Model-Based Irrigation Requirements for Coconut to Improve Crop and Water Productivity in Kerala, India. Sustainability, 2019, 11, 5132.	3.2	16
183	Designing a New Data Intelligence Model for Global Solar Radiation Prediction: Application of Multivariate Modeling Scheme. Energies, 2019, 12, 1365.	3.1	16
184	Underground Barrier Wall Evaluation for Controlling Saltwater Intrusion in Sloping Unconfined Coastal Aquifers. Water (Switzerland), 2020, 12, 2403.	2.7	16
185	Cross Assessment of Twenty-One Different Methods for Missing Precipitation Data Estimation. Atmosphere, 2020, 11, 389.	2.3	16
186	Nodal Matrix Analysis for Optimal Pressure-Reducing Valve Localization in a Water Distribution System. Energies, 2020, 13, 1878.	3.1	16
187	On the investigation of COVID-19 lockdown influence on air pollution concentration: regional investigation over eighteen provinces in Iraq. Environmental Science and Pollution Research, 2021, 28, 50344-50362.	5.3	16
188	Sourcing CHIRPS precipitation data for streamflow forecasting using intrinsic time-scale decomposition based machine learning models. Hydrological Sciences Journal, 2021, 66, 1437-1456.	2.6	16
189	Grasshopper Optimization Algorithm With Crossover Operators for Feature Selection and Solving Engineering Problems. IEEE Access, 2022, 10, 23304-23320.	4.2	16
190	Beam-column joint shear prediction using hybridized deep learning neural network with genetic algorithm. IOP Conference Series: Earth and Environmental Science, 2018, 143, 012025.	0.3	15
191	Solar irradiation prediction intervals based on Boxâ€"Cox transformation and univariate representation of periodic autoregressive model. Renewable Energy Focus, 2020, 33, 43-53.	4.5	15
192	Estimation of natural streams longitudinal dispersion coefficient using hybrid evolutionary machine learning model. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1298-1320.	3.1	15
193	Integrated Water Harvesting and Aquifer Recharge Evaluation Methodology Based on Remote Sensing and Geographical Information System: Case Study in Iraq. Natural Resources Research, 2021, 30, 2119-2143.	4.7	15
194	Daily scale evapotranspiration prediction over the coastal region of southwest Bangladesh: new development of artificial intelligence model. Stochastic Environmental Research and Risk Assessment, 2022, 36, 451-471.	4.0	15
195	Designing Low-Cost Capacitive-Based Soil Moisture Sensor and Smart Monitoring Unit Operated by Solar Cells for Greenhouse Irrigation Management. Sensors, 2021, 21, 5387.	3.8	15
196	Development of new computational machine learning models for longitudinal dispersion coefficient determination: case study of natural streams, United States. Environmental Science and Pollution Research, 2022, 29, 35841-35861.	5.3	15
197	Integrative artificial intelligence models for Australian coastal sediment lead prediction: An investigation of in-situ measurements and meteorological parameters effects. Journal of Environmental Management, 2022, 309, 114711.	7.8	15
198	Sedimentary units-layering system and depositional model of the carbonate Mishrif reservoir in Rumaila oilfield, Southern Iraq. Modeling Earth Systems and Environment, 2018, 4, 1449-1465.	3.4	14

#	Article	IF	Citations
199	Application of novel data mining algorithms in prediction of discharge and end depth in trapezoidal sections. Computers and Electronics in Agriculture, 2020, 170, 105283.	7.7	14
200	Application of M5 model tree optimized with Excel Solver Platform for water quality parameter estimation. Environmental Science and Pollution Research, 2021, 28, 7347-7364.	5.3	14
201	Performance evaluation of sediment ejector efficiency using hybrid neuro-fuzzy models. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 627-643.	3.1	14
202	Prediction of lead (Pb) adsorption on attapulgite clay using the feasibility of data intelligence models. Environmental Science and Pollution Research, 2021, 28, 31670-31688.	5.3	14
203	Shrewd vehicle framework model with a streamlined informed approach for green transportation in smart cities. Environmental Impact Assessment Review, 2021, 87, 106542.	9.2	14
204	Drought Variability and Characteristics in the Muda River Basin of Malaysia from 1985 to 2019. Atmosphere, 2021, 12, 1210.	2.3	14
205	The impact of climate change on land degradation along with shoreline migration in Ghoramara Island, India. Physics and Chemistry of the Earth, 2022, 126, 103135.	2.9	14
206	Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization. Knowledge-Based Systems, 2022, 250, 109048.	7.1	14
207	Pressure Vessel Design Simulation. , 2019, , .		13
208	Assessing the Uncertainty Associated with Flood Features due to Variability of Rainfall and Hydrological Parameters. Advances in Civil Engineering, 2020, 2020, 1-9.	0.7	13
209	Simulating monthly streamflow using a hybrid feature selection approach integrated with an intelligence model. Hydrological Sciences Journal, 2020, 65, 1374-1384.	2.6	13
210	Hydrological Drought Investigation Using Streamflow Drought Index. Springer Transactions in Civil and Environmental Engineering, 2021, , 63-88.	0.4	13
211	Designing new hybrid artificial intelligence model for CFST beam flexural performance prediction. Engineering With Computers, 2022, 38, 3109-3135.	6.1	13
212	Solving the pan evaporation process complexity using the development of multiple mode of neurocomputing models. Theoretical and Applied Climatology, 2021, 145, 1521-1539.	2.8	13
213	A new insight for real-time wastewater quality prediction using hybridized kernel-based extreme learning machines with advanced optimization algorithms. Environmental Science and Pollution Research, 2022, 29, 20496-20516.	5.3	13
214	Surface water sodium (Na+) concentration prediction using hybrid weighted exponential regression model with gradient-based optimization. Environmental Science and Pollution Research, 2022, 29, 53456-53481.	5.3	13
215	Coupled online sequential extreme learning machine model with ant colony optimization algorithm for wheat yield prediction. Scientific Reports, 2022, 12, 5488.	3.3	13
216	Cyanobacteria blue-green algae prediction enhancement using hybrid machine learningâ€"based gamma test variable selection and empirical wavelet transform. Environmental Science and Pollution Research, 2022, 29, 77157-77187.	5.3	13

#	Article	IF	Citations
217	An evolutionary optimized artificial intelligence model for modeling scouring depth of submerged weir. Engineering Applications of Artificial Intelligence, 2020, 96, 104012.	8.1	12
218	Chemical and isotope composition of the oilfield brines from Mishrif Formation (southern Iraq): Diagenesis and geothermometry. Marine and Petroleum Geology, 2020, 122, 104637.	3.3	12
219	Multi-variable model output statistics downscaling for the projection of spatio-temporal changes in rainfall of Borneo Island. Journal of Hydro-Environment Research, 2020, 31, 62-75.	2.2	12
220	Scouring Depth Assessment Downstream of Weirs Using Hybrid Intelligence Models. Applied Sciences (Switzerland), 2020, 10, 3714.	2.5	12
221	Prediction of dissolved oxygen, biochemical oxygen demand, and chemical oxygen demand using hydrometeorological variables: case study of Selangor River, Malaysia. Environment, Development and Sustainability, 2021, 23, 8027-8046.	5.0	12
222	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.	2.9	12
223	Experimental and Theoretical Analysis of Energy Efficiency in a Flat Plate Solar Collector Using Monolayer Graphene Nanofluids. Sustainability, 2021, 13, 5416.	3.2	12
224	Performance of the novel C-purlin tubular beams filled with recycled-lightweight concrete strengthened with CFRP sheet. Journal of Building Engineering, 2021, 43, 102532.	3.4	12
225	Mutating fuzzy logic model with various rigorous meta-heuristic algorithms for soil moisture content estimation. Agricultural Water Management, 2022, 261, 107342.	5.6	12
226	Assessing the Efficiency of Remote Sensing and Machine Learning Algorithms to Quantify Wheat Characteristics in the Nile Delta Region of Egypt. Agriculture (Switzerland), 2022, 12, 332.	3.1	12
227	Hybridized Deep Learning Model for Perfobond Rib Shear Strength Connector Prediction. Complexity, 2021, 2021, 1-21.	1.6	11
228	Predictability performance enhancement for suspended sediment in rivers: Inspection of newly developed hybrid adaptive neuro-fuzzy system model. International Journal of Sediment Research, 2022, 37, 383-398.	3.5	11
229	Dual Water Choices: The Assessment of the Influential Factors on Water Sources Choices Using Unsupervised Machine Learning Market Basket Analysis. IEEE Access, 2021, 9, 150532-150544.	4.2	11
230	Improved Permeability Prediction of Porous Media by Feature Selection and Machine Learning Methods Comparison. Journal of Computing in Civil Engineering, 2022, 36, .	4.7	11
231	Forecasting long-term precipitation for water resource management: a new multi-step data-intelligent modelling approach. Hydrological Sciences Journal, 2020, 65, 2693-2708.	2.6	10
232	A novel simulationâ€"optimization strategy for stochasticâ€based designing of flood control dam: A case study of Jamishan dam. Journal of Flood Risk Management, 2021, 14, e12678.	3.3	10
233	An empirical estimation for time and memory algorithm complexities: newly developed R package. Multimedia Tools and Applications, 2021, 80, 2997-3015.	3.9	10
234	Concrete corrosion in wastewater systems: Prediction and sensitivity analysis using advanced extreme learning machine. Frontiers of Structural and Civil Engineering, 2021, 15, 444-460.	2.9	10

#	Article	IF	Citations
235	Integration of complete ensemble empirical mode decomposition with deep long short-term memory model for particulate matter concentration prediction. Environmental Science and Pollution Research, 2021, 28, 64818-64829.	5.3	10
236	Daily scale river flow simulation: hybridized fuzzy logic model with metaheuristic algorithms. Hydrological Sciences Journal, 2021, 66, 2155-2169.	2.6	10
237	Total Dissolved Salt Prediction Using Neurocomputing Models: Case Study of Gypsum Soil Within Iraq Region. IEEE Access, 2021, 9, 53617-53635.	4.2	10
238	Delineation of urban expansion influences urban heat islands and natural environment using remote sensing and GIS-based in industrial area. Environmental Science and Pollution Research, 2022, 29, 73147-73170.	5.3	10
239	A Comparison Between Reconstruction Methods for Generation of Synthetic Time Series Applied to Wind Speed Simulation. IEEE Access, 2019, 7, 135386-135398.	4.2	9
240	System Dynamics Modeling Strategy for Civil Construction Projects: The Concept of Successive Legislation Periods. Symmetry, 2019, 11, 677.	2.2	9
241	Advanced machine learning models development for suspended sediment prediction: comparative analysis study. Geocarto International, 2022, 37, 6116-6140.	3.5	9
242	Assessment of novel nature-inspired fuzzy models for predicting long contraction scouring and related uncertainties. Frontiers of Structural and Civil Engineering, 2021, 15, 665-681.	2.9	9
243	Hybrid Data Intelligent Models and Applications for Water Level Prediction. Advances in Computational Intelligence and Robotics Book Series, 2018, , 121-139.	0.4	9
244	Flexural Strength of Internally Stiffened Tubular Steel Beam Filled with Recycled Concrete Materials. Materials, 2021, 14, 6334.	2.9	9
245	Temperature and precipitation trend analysis of the Iraq Region under SRES scenarios during the twenty-first century. Theoretical and Applied Climatology, 2022, 148, 881-898.	2.8	9
246	Drought Index Prediction Using Data Intelligent Analytic Models: A Review. Springer Transactions in Civil and Environmental Engineering, 2021, , 1-27.	0.4	8
247	Thermal effectiveness of solar collector using Graphene nanostructures suspended in ethylene glycolâ€"water mixtures. Energy Reports, 2022, 8, 1867-1882.	5.1	8
248	Reference evapotranspiration prediction using high-order response surface method. Theoretical and Applied Climatology, 2022, 148, 849-867.	2.8	8
249	Householdsâ€™ perceptions and socio-economic determinants of climate change awareness: Evidence from Selangor Coast Malaysia. Journal of Environmental Management, 2022, 316, 115261.	7.8	8
250	Optimizing Height and Spacing of Check Dam Systems for Better Grassed Channel Infiltration Capacity. Applied Sciences (Switzerland), 2020, 10, 3725.	2.5	7
251	A Monte Carlo based solar radiation forecastability estimation. Journal of Renewable and Sustainable Energy, 2021, 13, .	2.0	7
252	Optimized Adaptive Neuro-Fuzzy Inference System Using Metaheuristic Algorithms: Application of Shield Tunnelling Ground Surface Settlement Prediction. Complexity, 2021, 2021, 1-15.	1.6	7

#	Article	IF	Citations
253	Earth skin temperature long-term prediction using novel extended Kalman filter integrated with Artificial Intelligence models and information gain feature selection. Sustainable Computing: Informatics and Systems, 2022, 35, 100721.	2.2	7
254	Augmented chaos-multiple linear regression approach for prediction of wave parameters. Engineering Science and Technology, an International Journal, 2017, 20, 1180-1191.	3.2	6
255	Minimizing the Principle Stresses of Powerhoused Rock-Fill Dams Using Control Turbine Running Units: Application of Finite Element Method. Water (Switzerland), 2018, 10, 1138.	2.7	6
256	A novel and exact analytical model for determination of critical depth in trapezoidal open channels. Flow Measurement and Instrumentation, 2019, 68, 101575.	2.0	6
257	Non-gradient probabilistic Gaussian global-best harmony search optimization for first-order reliability method. Engineering With Computers, 2020, 36, 1189-1200.	6.1	6
258	Heat Transfer and Hydrodynamic Properties Using Different Metal-Oxide Nanostructures in Horizontal Concentric Annular Tube: An Optimization Study. Nanomaterials, 2021, 11, 1979.	4.1	6
259	Determination of cotton and wheat yield using the standard precipitation evaporation index in Pakistan. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	6
260	A Systematic Operation Program of a Hydropower Plant Based on Minimizing the Principal Stress: Haditha Dam Case Study. Water (Switzerland), 2018, 10, 1270.	2.7	5
261	An Educational Web-Based Expert System for Novice Highway Technology in Flexible Pavement Maintenance. Complexity, 2021, 2021, 1-17.	1.6	5
262	Optimization of Layout and Pipe Sizes for Irrigation Pipe Distribution Network Using Steiner Point Concept. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	5
263	Simulation Model for Optimal Operation of Dokan Dam Reservoir Northern of Iraq. International Journal of Design and Nature and Ecodynamics, 2021, 16, 301-306.	0.5	5
264	A functional autoregressive model based on exogenous hydrometeorological variables for river flow prediction. Journal of Hydrology, 2021, 598, 126380.	5.4	5
265	Reinforcing bar development length modeling using integrative support vector regression model with response surface method: New approach. ISA Transactions, 2022, 128, 423-434.	5.7	5
266	Bayesian Markov Chain Monte Carlo-Based Copulas: Factoring the Role of Large-Scale Climate Indices in Monthly Flood Prediction. Springer Transactions in Civil and Environmental Engineering, 2021, , 29-47.	0.4	5
267	Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance. Sustainable Energy Technologies and Assessments, 2022, 49, 101772.	2.7	5
268	Student Performance Predictions for Advanced Engineering Mathematics Course With New Multivariate Copula Models. IEEE Access, 2022, 10, 45112-45136.	4.2	5
269	Distributed Hydrological Model Based on Machine Learning Algorithm: Assessment of Climate Change Impact on Floods. Sustainability, 2022, 14, 6620.	3.2	5
270	Modeling spatial distribution of plant species using autoregressive logistic regression method-based conjugate search direction. Plant Ecology, 2019, 220, 267-278.	1.6	4

#	Article	IF	Citations
271	Need for developing a security robot-based risk management for emerging practices in the workplace using the Advanced Human-Robot Collaboration Model. Work, 2021, 68, 825-834.	1.1	4
272	Proposition of New Metaphor-Less Algorithms for Reservoir Operation. Complexity, 2021, 2021, 1-11.	1.6	4
273	Temporal dynamic drought interpretation of Sawa Lake: case study located at the Southern Iraqi region. Natural Hazards, 2022, 112, 619-638.	3.4	4
274	Maximization of Water Productivity and Yield of Two Iceberg Lettuce Cultivars in Hydroponic Farming System Using Magnetically Treated Saline Water. Agriculture (Switzerland), 2022, 12, 101.	3.1	4
275	Natural Time Series Parameters Forecasting: Validation of the Pattern-Sequence-Based Forecasting (PSF) Algorithm; A New Python Package. Applied Sciences (Switzerland), 2022, 12, 6194.	2.5	4
276	Frictional Pressure Drop and Cost Savings for Graphene Nanoplatelets Nanofluids in Turbulent Flow Environments. Nanomaterials, 2021, 11, 3094.	4.1	3
277	River water turbidity removal using new natural coagulant aids: case study of Euphrates River, Iraq. Water Science and Technology: Water Supply, 2022, 22, 2721-2737.	2.1	3
278	Delineation of urban expansion and drought-prone areas using vegetation conditions and other geospatial indices. Theoretical and Applied Climatology, 2022, 149, 1277-1295.	2.8	3
279	Delineating the Crop-Land Dynamic due to Extreme Environment Using Landsat Datasets: A Case Study. Agronomy, 2022, 12, 1268.	3.0	2
280	An Investigation for Heavy Metals' Contamination in Farmers' Fingernails: Case Study in Libya. Journal of Chemistry, 2022, 2022, 1-12.	1.9	2
281	Hybrid multilayer perceptron-firefly optimizer algorithm for modelling photosynthetic active solar radiation for biofuel energy exploration. , 2021, , 191-232.		1
282	Security and privacy issues related to the workplace-based security robot system. Work, 2021, 68, 871-879.	1.1	1
283	Water Flow Stabilization Using Submerged Weir for Draft Tube Reaction Hydraulic Turbine. Scientia Iranica, 2018, .	0.4	1
284	Thermal and Hydraulic Performances of Carbon and Metallic Oxides-Based Nanomaterials. Nanomaterials, 2022, 12, 1545.	4.1	1
285	Integration of Multiple Models with Hybrid Artificial Neural Network-Genetic Algorithm for Soil Cation-Exchange Capacity Prediction. Complexity, 2022, 2022, 1-15.	1.6	1
286	Assessing the Impact of Groundwater Extraction on the Performance of Fractured Concrete Subsurface Dam in Controlling Seawater Intrusion in Coastal Aquifers. Water (Switzerland), 2022, 14, 2139.	2.7	1
287	New water resources technologies. , 2021, , 1-14.		0
288	Effect of Water Flooding on Oil Reservoir Permeability: Saturation Index Prediction Model for Giant Oil Reservoirs, Southern Iraq. Natural Resources Research, 2021, 30, 4403-4415.	4.7	0

#	Article	IF	Citations
289	Improved Fitness-Dependent Optimizer for Solving Economic Load Dispatch Problem. Computational Intelligence and Neuroscience, 2022, 2022, 1-16.	1.7	0