

Zaher Mundher Yaseen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277
papers

6,971
citations

47
h-index

70
g-index

293
ext. papers

9,697
ext. citations

4.1
avg, IF

7.3
L-index

#	Paper	IF	Citations
277	Development of new computational machine learning models for longitudinal dispersion coefficient determination: case study of natural streams, United States.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
276	Maximization of Water Productivity and Yield of Two Iceberg Lettuce Cultivars in Hydroponic Farming System Using Magnetically Treated Saline Water. <i>Agriculture (Switzerland)</i> , 2022 , 12, 101	3	0
275	On the prediction of methane fluxes from pristine tropical peatland in Sarawak: application of a denitrification-decomposition (DNDC) model.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 30724	5.1	1
274	Thermal effectiveness of solar collector using Graphene nanostructures suspended in ethylene glycol/water mixtures. <i>Energy Reports</i> , 2022 , 8, 1867-1882	4.6	0
273	Deep learning versus gradient boosting machine for pan evaporation prediction. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 570-587	4.5	4
272	Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101772	4.7	1
271	Improved Permeability Prediction of Porous Media by Feature Selection and Machine Learning Methods Comparison. <i>Journal of Computing in Civil Engineering</i> , 2022 , 36,	5	2
270	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	6	2
269	Grasshopper Optimization Algorithm With Crossover Operators for Feature Selection and Solving Engineering Problems. <i>IEEE Access</i> , 2022 , 10, 23304-23320	3.5	1
268	Assessing the Efficiency of Remote Sensing and Machine Learning Algorithms to Quantify Wheat Characteristics in the Nile Delta Region of Egypt. <i>Agriculture (Switzerland)</i> , 2022 , 12, 332	3	2
267	The impact of climate change on land degradation along with shoreline migration in Ghoramara Island, India. <i>Physics and Chemistry of the Earth</i> , 2022 , 103135	3	2
266	Surface water sodium (Na) concentration prediction using hybrid weighted exponential regression model with gradient-based optimization.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
265	Coupled online sequential extreme learning machine model with ant colony optimization algorithm for wheat yield prediction.. <i>Scientific Reports</i> , 2022 , 12, 5488	4.9	0
264	Integrative artificial intelligence models for Australian coastal sediment lead prediction: An investigation of in-situ measurements and meteorological parameters effects.. <i>Journal of Environmental Management</i> , 2022 , 309, 114711	7.9	2
263	Groundwater level prediction using machine learning models: A comprehensive review. <i>Neurocomputing</i> , 2022 , 489, 271-308	5.4	12
262	Earth skin temperature long-term prediction using novel extended Kalman filter integrated with Artificial Intelligence models and information gain feature selection. <i>Sustainable Computing: Informatics and Systems</i> , 2022 , 35, 100721	3	0
261	River water turbidity removal using new natural coagulant aids: case study of Euphrates River, Iraq. <i>Water Science and Technology: Water Supply</i> , 2022 , 22, 2721-2737	1.4	

260	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	4.5	2
259	Student Performance Predictions for Advanced Engineering Mathematics Course with New Multivariate Copula Models. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
258	Reference evapotranspiration prediction using high-order response surface method. <i>Theoretical and Applied Climatology</i> , 2022 , 148, 849-867	3	1
257	An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction.. <i>Scientific Reports</i> , 2022 , 12, 4934	4.9	0
256	Long-term multi-step ahead forecasting of root zone soil moisture in different climates: Novel ensemble-based complementary data-intelligent paradigms. <i>Agricultural Water Management</i> , 2022 , 269, 107679	5.9	0
255	Households' perceptions and socio-economic determinants of climate change awareness: Evidence from Selangor Coast Malaysia. <i>Journal of Environmental Management</i> , 2022 , 316, 115261	7.9	0
254	Distributed Hydrological Model Based on Machine Learning Algorithm: Assessment of Climate Change Impact on Floods. <i>Sustainability</i> , 2022 , 14, 6620	3.6	1
253	Delineating the Crop-Land Dynamic due to Extreme Environment Using Landsat Datasets: A Case Study. <i>Agronomy</i> , 2022 , 12, 1268	3.6	
252	Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization. <i>Knowledge-Based Systems</i> , 2022 , 250, 109048	7.3	0
251	Dual Water Choices: The Assessment of the Influential Factors on Water Sources Choices Using Unsupervised Machine Learning Market Basket Analysis. <i>IEEE Access</i> , 2021 , 1-1	3.5	3
250	A new insight for real-time wastewater quality prediction using hybridized kernel-based extreme learning machines with advanced optimization algorithms. <i>Environmental Science and Pollution Research</i> , 2021 , 29, 20496	5.1	1
249	Bayesian Markov Chain Monte Carlo-Based Copulas: Factoring the Role of Large-Scale Climate Indices in Monthly Flood Prediction. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 29-47	0.4	2
248	An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. <i>Energy Reports</i> , 2021 , 7, 7854-7877	4.6	6
247	Mutating fuzzy logic model with various rigorous meta-heuristic algorithms for soil moisture content estimation. <i>Agricultural Water Management</i> , 2021 , 261, 107342	5.9	1
246	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1585-1612	4.5	5
245	Prediction of Potential Evapotranspiration Using Temperature-Based Heuristic Approaches. <i>Sustainability</i> , 2021 , 13, 297	3.6	8
244	Predictability performance enhancement for suspended sediment in rivers: Inspection of newly developed hybrid adaptive neuro-fuzzy system model. <i>International Journal of Sediment Research</i> , 2021 , 37, 383-383	3	3
243	Reinforcing bar development length modeling using integrative support vector regression model with response surface method: New approach. <i>ISA Transactions</i> , 2021 ,	5.5	1

242	Flexural Strength of Internally Stiffened Tubular Steel Beam Filled with Recycled Concrete Materials. <i>Materials</i> , 2021 , 14,	3.5	5
241	Variational mode decomposition based random forest model for solar radiation forecasting: New emerging machine learning technology. <i>Energy Reports</i> , 2021 , 7, 6700-6717	4.6	7
240	Drought Index Prediction Using Data Intelligent Analytic Models: A Review. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 1-27	0.4	4
239	Hybridized Deep Learning Model for Perfobond Rib Shear Strength Connector Prediction. <i>Complexity</i> , 2021 , 2021, 1-21	1.6	7
238	A Monte Carlo based solar radiation forecastability estimation. <i>Journal of Renewable and Sustainable Energy</i> , 2021 , 13, 026501	2.5	2
237	Optimized Adaptive Neuro-Fuzzy Inference System Using Metaheuristic Algorithms: Application of Shield Tunnelling Ground Surface Settlement Prediction. <i>Complexity</i> , 2021 , 2021, 1-15	1.6	0
236	Concrete corrosion in wastewater systems: Prediction and sensitivity analysis using advanced extreme learning machine. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 444	2.5	4
235	The development of evolutionary computing model for simulating reference evapotranspiration over Peninsular Malaysia. <i>Theoretical and Applied Climatology</i> , 2021 , 144, 1419-1434	3	7
234	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	6.1	21
233	Experimental and Theoretical Analysis of Energy Efficiency in a Flat Plate Solar Collector Using Monolayer Graphene Nanofluids. <i>Sustainability</i> , 2021 , 13, 5416	3.6	8
232	On the investigation of COVID-19 lockdown influence on air pollution concentration: regional investigation over eighteen provinces in Iraq. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 50344-50362	5.1	7
231	Development of artificial intelligence models for well groundwater quality simulation: Different modeling scenarios. <i>PLoS ONE</i> , 2021 , 16, e0251510	3.7	7
230	Modeling soil temperature using air temperature features in diverse climatic conditions with complementary machine learning models. <i>Computers and Electronics in Agriculture</i> , 2021 , 185, 106158	6.5	9
229	New water resources technologies 2021 , 1-14		
228	Sourcing CHIRPS precipitation data for streamflow forecasting using intrinsic time-scale decomposition based machine learning models. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1437-1456	3.5	6
227	Assessment of novel nature-inspired fuzzy models for predicting long contraction scouring and related uncertainties. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 665-681	2.5	3
226	A functional autoregressive model based on exogenous hydrometeorological variables for river flow prediction. <i>Journal of Hydrology</i> , 2021 , 598, 126380	6	0
225	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	6	13

224	Integration of complete ensemble empirical mode decomposition with deep long short-term memory model for particulate matter concentration prediction. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 64818-64829	5.1	2
223	Solving the pan evaporation process complexity using the development of multiple mode of neurocomputing models. <i>Theoretical and Applied Climatology</i> , 2021 , 145, 1521-1539	3	7
222	Proposition of New Metaphor-Less Algorithms for Reservoir Operation. <i>Complexity</i> , 2021 , 2021, 1-11	1.6	2
221	Prediction of dissolved oxygen, biochemical oxygen demand, and chemical oxygen demand using hydrometeorological variables: case study of Selangor River, Malaysia. <i>Environment, Development and Sustainability</i> , 2021 , 23, 8027-8046	4.5	6
220	Hydrological Drought Investigation Using Streamflow Drought Index. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021 , 63-88	0.4	5
219	Heavy metal contamination prediction using ensemble model: Case study of Bay sedimentation, Australia. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123492	12.8	32
218	Modelling infiltration rates in permeable stormwater channels using soft computing techniques*. <i>Irrigation and Drainage</i> , 2021 , 70, 117-130	1.1	11
217	Application of M5 model tree optimized with Excel Solver Platform for water quality parameter estimation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 7347-7364	5.1	4
216	Analysis of dry and wet climate characteristics at Uttarakhand (India) using effective drought index. <i>Natural Hazards</i> , 2021 , 105, 1643-1662	3	13
215	Prediction of sediment heavy metal at the Australian Bays using newly developed hybrid artificial intelligence models. <i>Environmental Pollution</i> , 2021 , 268, 115663	9.3	27
214	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	6.8	49
213	Hybrid multilayer perceptron-firefly optimizer algorithm for modelling photosynthetic active solar radiation for biofuel energy exploration 2021 , 191-232		0
212	Global solar radiation prediction over North Dakota using air temperature: Development of novel hybrid intelligence model. <i>Energy Reports</i> , 2021 , 7, 136-157	4.6	24
211	A novel simulation optimization strategy for stochastic-based designing of flood control dam: A case study of Jamishan dam. <i>Journal of Flood Risk Management</i> , 2021 , 14, e12678	3.1	6
210	Estimation of triangular side orifice discharge coefficient under a free flow condition using data-driven models. <i>Flow Measurement and Instrumentation</i> , 2021 , 77, 101878	2.2	11
209	An empirical estimation for time and memory algorithm complexities: newly developed R package. <i>Multimedia Tools and Applications</i> , 2021 , 80, 2997-3015	2.5	5
208	Reliability-based structural design optimization: hybridized conjugate mean value approach. <i>Engineering With Computers</i> , 2021 , 37, 381-394	4.5	26
207	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	4.5	21

206	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	7.8	16
205	Estimation of natural streams longitudinal dispersion coefficient using hybrid evolutionary machine learning model. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1298-1320	4.5	3
204	Performance evaluation of sediment ejector efficiency using hybrid neuro-fuzzy models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 627-643	4.5	5
203	The Nature of Tigris-Euphrates Rivers Flow: Current Status and Future Prospective 2021 , 229-242		1
202	Emerging Technologies of Deep Learning Models Development for Pavement Temperature Prediction. <i>IEEE Access</i> , 2021 , 9, 23840-23849	3.5	10
201	Forecasting standardized precipitation index using data intelligence models: regional investigation of Bangladesh. <i>Scientific Reports</i> , 2021 , 11, 3435	4.9	16
200	Prediction of lead (Pb) adsorption on attapulgitte clay using the feasibility of data intelligence models. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 31670-31688	5.1	8
199	An Educational Web-Based Expert System for Novice Highway Technology in Flexible Pavement Maintenance. <i>Complexity</i> , 2021 , 2021, 1-17	1.6	1
198	Optimization of Layout and Pipe Sizes for Irrigation Pipe Distribution Network Using Steiner Point Concept. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-12	1.1	0
197	Integrated Water Harvesting and Aquifer Recharge Evaluation Methodology Based on Remote Sensing and Geographical Information System: Case Study in Iraq. <i>Natural Resources Research</i> , 2021 , 30, 2119-2143	4.9	5
196	Simulation of foamed concrete compressive strength prediction using adaptive neuro-fuzzy inference system optimized by nature-inspired algorithms. <i>Frontiers of Structural and Civil Engineering</i> , 2021 , 15, 61-79	2.5	4
195	Need for developing a security robot-based risk management for emerging practices in the workplace using the Advanced Human-Robot Collaboration Model. <i>Work</i> , 2021 , 68, 825-834	1.6	0
194	Security and privacy issues related to the workplace-based security robot system. <i>Work</i> , 2021 , 68, 871-876	1.6	0
193	Shrewd vehicle framework model with a streamlined informed approach for green transportation in smart cities. <i>Environmental Impact Assessment Review</i> , 2021 , 87, 106542	5.3	6
192	Improving daily stochastic streamflow prediction: comparison of novel hybrid data-mining algorithms. <i>Hydrological Sciences Journal</i> , 2021 , 66, 1457-1474	3.5	7
191	Heat Transfer and Hydrodynamic Properties Using Different Metal-Oxide Nanostructures in Horizontal Concentric Annular Tube: An Optimization Study. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
190	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	6.8	46
189	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	8.4	50

188	Designing Low-Cost Capacitive-Based Soil Moisture Sensor and Smart Monitoring Unit Operated by Solar Cells for Greenhouse Irrigation Management. <i>Sensors</i> , 2021 , 21,	3.8	3
187	Prediction of copper ions adsorption by attapulgite adsorbent using tuned-artificial intelligence model. <i>Chemosphere</i> , 2021 , 276, 130162	8.4	14
186	An intelligent evolutionary extreme gradient boosting algorithm development for modeling scour depths under submerged weir. <i>Information Sciences</i> , 2021 , 570, 172-184	7.7	10
185	Determination of cotton and wheat yield using the standard precipitation evaporation index in Pakistan. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	0
184	Drought Variability and Characteristics in the Muda River Basin of Malaysia from 1985 to 2019. <i>Atmosphere</i> , 2021 , 12, 1210	2.7	2
183	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	6.7	24
182	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. <i>Powder Technology</i> , 2021 ,	5.2	5
181	Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks. <i>Scientific Reports</i> , 2021 , 11, 17497	4.9	20
180	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. <i>Knowledge-Based Systems</i> , 2021 , 230, 107379	7.3	34
179	Investigation into the permeability and strength of pervious geopolymer concrete containing coated biomass aggregate material. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 2075-2087	5.5	3
178	Performance of the novel C-purlin tubular beams filled with recycled-lightweight concrete strengthened with CFRP sheet. <i>Journal of Building Engineering</i> , 2021 , 43, 102532	5.2	9
177	The assessment of emerging data-intelligence technologies for modeling Mg and SO surface water quality. <i>Journal of Environmental Management</i> , 2021 , 300, 113774	7.9	3
176	. <i>IEEE Access</i> , 2021 , 9, 53617-53635	3.5	4
175	Proposition of New Ensemble Data-Intelligence Models for Surface Water Quality Prediction. <i>IEEE Access</i> , 2021 , 9, 108527-108541	3.5	16
174	Projection of Agricultural Water Stress for Climate Change Scenarios: A Regional Case Study of Iraq. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1288	3	8
173	Strategic Assessment of Dam Overtopping Reliability Using a Stochastic Process Approach. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 04020029	1.8	9
172	Surrogate permeability modelling of low-permeable rocks using convolutional neural networks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 366, 113103	5.7	12
171	Lake water level modeling using newly developed hybrid data intelligence model. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 1285-1300	3	10

170	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	3.1	14
169	Solar irradiation prediction intervals based on Box-Cox transformation and univariate representation of periodic autoregressive model. <i>Renewable Energy Focus</i> , 2020 , 33, 43-53	5.4	8
168	Optimized parameter estimation of a PEMFC model based on improved Grass Fibrous Root Optimization Algorithm. <i>Energy Reports</i> , 2020 , 6, 1510-1519	4.6	8
167	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	3.5	27
166	Development of Advanced Computer Aid Model for Shear Strength of Concrete Slender Beam Prediction. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3811	2.6	13
165	The Capacity of the Hybridizing Wavelet Transformation Approach With Data-Driven Models for Modeling Monthly-Scale Streamflow. <i>IEEE Access</i> , 2020 , 8, 101993-102006	3.5	12
164	Scouring Depth Assessment Downstream of Weirs Using Hybrid Intelligence Models. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3714	2.6	9
163	Energy analysis using carbon and metallic oxides-based nanomaterials inside a solar collector. <i>Energy Reports</i> , 2020 , 6, 1373-1381	4.6	13
162	ForecastTB: An R Package as a Test-Bench for Time Series Forecasting Application of Wind Speed and Solar Radiation Modeling. <i>Energies</i> , 2020 , 13, 2578	3.1	34
161	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. <i>Scientific Reports</i> , 2020 , 10, 4684	4.9	38
160	Prediction of Risk Delay in Construction Projects Using a Hybrid Artificial Intelligence Model. <i>Sustainability</i> , 2020 , 12, 1514	3.6	32
159	Forecasting surface water temperature in lakes: A comparison of approaches. <i>Journal of Hydrology</i> , 2020 , 585, 124809	6	30
158	Permeability prediction of porous media using a combination of computational fluid dynamics and hybrid machine learning methods. <i>Engineering With Computers</i> , 2020 , 37, 3455	4.5	17
157	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. <i>Hydrological Sciences Journal</i> , 2020 , 65, 1145-1157	3.5	16
156	Hybridized Extreme Learning Machine Model with Salp Swarm Algorithm: A Novel Predictive Model for Hydrological Application. <i>Complexity</i> , 2020 , 2020, 1-14	1.6	30
155	Optimizing Height and Spacing of Check Dam Systems for Better Grassed Channel Infiltration Capacity. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3725	2.6	3
154	Pan Evaporation Estimation in Uttarakhand and Uttar Pradesh States, India: Validity of an Integrative Data Intelligence Model. <i>Atmosphere</i> , 2020 , 11, 553	2.7	17
153	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	7.9	80

152	Evaluating severity-area-frequency (SAF) of seasonal droughts in Bangladesh under climate change scenarios. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 447-464	3.5	29
151	State-of-the Art-Powerhouse, Dam Structure, and Turbine Operation and Vibrations. <i>Sustainability</i> , 2020 , 12, 1676	3.6	8
150	On the complexities of sediment load modeling using integrative machine learning: Application of the great river of Loza in Puerto Rico. <i>Journal of Hydrology</i> , 2020 , 585, 124759	6	24
149	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	5.1	29
148	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	2.6	17
147	. <i>IEEE Access</i> , 2020 , 8, 32632-32651	3.5	55
146	Shallow Foundation Settlement Quantification: Application of Hybridized Adaptive Neuro-Fuzzy Inference System Model. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-14	1.3	20
145	Application of novel data mining algorithms in prediction of discharge and end depth in trapezoidal sections. <i>Computers and Electronics in Agriculture</i> , 2020 , 170, 105283	6.5	9
144	A survey on river water quality modelling using artificial intelligence models: 2000-2020. <i>Journal of Hydrology</i> , 2020 , 585, 124670	6	143
143	Hourly River Flow Forecasting: Application of Emotional Neural Network Versus Multiple Machine Learning Paradigms. <i>Water Resources Management</i> , 2020 , 34, 1075-1091	3.7	32
142	Global Solar Radiation Estimation and Climatic Variability Analysis Using Extreme Learning Machine Based Predictive Model. <i>IEEE Access</i> , 2020 , 8, 12026-12042	3.5	34
141	Complete ensemble empirical mode decomposition hybridized with random forest and kernel ridge regression model for monthly rainfall forecasts. <i>Journal of Hydrology</i> , 2020 , 584, 124647	6	50
140	A Newly Developed Integrative Bio-Inspired Artificial Intelligence Model for Wind Speed Prediction. <i>IEEE Access</i> , 2020 , 8, 83347-83358	3.5	14
139	Cross Assessment of Twenty-One Different Methods for Missing Precipitation Data Estimation. <i>Atmosphere</i> , 2020 , 11, 389	2.7	3
138	Late Age Dynamic Strength of High-Volume Fly Ash Concrete with Nano-Silica and Polypropylene Fibres. <i>Crystals</i> , 2020 , 10, 243	2.3	14
137	Nodal Matrix Analysis for Optimal Pressure-Reducing Valve Localization in a Water Distribution System. <i>Energies</i> , 2020 , 13, 1878	3.1	4
136	Changes in Climatic Water Availability and Crop Water Demand for Iraq Region. <i>Sustainability</i> , 2020 , 12, 3437	3.6	24
135	Particulate matter concentration from open-cut coal mines: A hybrid machine learning estimation. <i>Environmental Pollution</i> , 2020 , 263, 114517	9.3	17

134	. <i>IEEE Access</i> , 2020 , 8, 51884-51904	3.5	29
133	Drought index prediction using advanced fuzzy logic model: Regional case study over Kumaon in India. <i>PLoS ONE</i> , 2020 , 15, e0233280	3.7	30
132	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	4.5	42
131	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	4.5	32
130	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	3.7	25
129	Precipitation projection using a CMIP5 GCM ensemble model: a regional investigation of Syria. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 90-106	4.5	59
128	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	3.5	44
127	Pressure drops of fresh cemented paste backfills through coupled test loop experiments and machine learning techniques. <i>Powder Technology</i> , 2020 , 361, 748-758	5.2	26
126	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	10.3	59
125	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	2.3	26
124	Assessing the Uncertainty Associated with Flood Features due to Variability of Rainfall and Hydrological Parameters. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-9	1.3	8
123	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	6.5	8
122	An evolutionary optimized artificial intelligence model for modeling scouring depth of submerged weir. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 96, 104012	7.2	6
121	Chemical and isotope composition of the oilfield brines from Mishrif Formation (southern Iraq): Diagenesis and geothermometry. <i>Marine and Petroleum Geology</i> , 2020 , 122, 104637	4.7	7
120	Newly explored machine learning model for river flow time series forecasting at Mary River, Australia. <i>Environmental Monitoring and Assessment</i> , 2020 , 192, 761	3.1	7
119	Multi-variable model output statistics downscaling for the projection of spatio-temporal changes in rainfall of Borneo Island. <i>Journal of Hydro-Environment Research</i> , 2020 , 31, 62-75	2.3	4
118	Manganese (Mn) removal prediction using extreme gradient model. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 204, 111059	7	26
117	Iran's Agriculture in the Anthropocene. <i>Earth's Future</i> , 2020 , 8, e2020EF001547	7.9	33

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