

Ahmed El-Shafie

List of Publications by Year in descending order

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Version: 2024-02-01

311
papers

11,317
citations

34105

52
h-index

53230

85
g-index

323
all docs

323
docs citations

323
times ranked

6948
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal operation of hydropower reservoirs under climate change. <i>Environment, Development and Sustainability</i> , 2023, 25, 10627-10659.	5.0	3
2	Development of prediction model for phosphate in reservoir water system based machine learning algorithms. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101523.	6.1	20
3	Predicting evaporation with optimized artificial neural network using multi-objective salp swarm algorithm. <i>Environmental Science and Pollution Research</i> , 2022, 29, 10675-10701.	5.3	13
4	Drought modelling by standard precipitation index (SPI) in a semi-arid climate using deep learning method: long short-term memory. <i>Neural Computing and Applications</i> , 2022, 34, 2425-2442.	5.6	18
5	A review of the hybrid artificial intelligence and optimization modelling of hydrological streamflow forecasting. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 279-303.	6.4	106
6	Comprehensive comparison of various machine learning algorithms for short-term ozone concentration prediction. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4607-4622.	6.4	11
7	A comparison of various machine learning approaches performance for prediction suspended sediment load of river systems: a case study in Malaysia. <i>Earth Science Informatics</i> , 2022, 15, 91-104.	3.2	10
8	Sediment Incipient Motion in Sewer with a Bed Deposit. <i>Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers</i> , 2022, 33, 11473-11486.	1.1	3
9	The potential of a novel support vector machine trained with modified mayfly optimization algorithm for streamflow prediction. <i>Hydrological Sciences Journal</i> , 2022, 67, 161-174.	2.6	47
10	Spatiotemporal variability analysis of standardized precipitation indexed droughts using wavelet transform. <i>Journal of Hydrology</i> , 2022, 605, 127299.	5.4	28
11	Exploring Bayesian model averaging with multiple ANNs for meteorological drought forecasts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 1835-1860.	4.0	22
12	Inclusive Multiple Model Using Hybrid Artificial Neural Networks for Predicting Evaporation. <i>Frontiers in Environmental Science</i> , 2022, 9, .	3.3	20
13	Past, Present and Perspective Methodology for Groundwater Modeling-Based Machine Learning Approaches. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 3843-3859.	10.2	32
14	Predicting suspended sediment load in Peninsular Malaysia using support vector machine and deep learning algorithms. <i>Scientific Reports</i> , 2022, 12, 302.	3.3	20
15	Modeling the infiltration rate of wastewater infiltration basins considering water quality parameters using different artificial neural network techniques. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 397-421.	3.1	8
16	Rainfall Variability Index (RVI) analysis of dry spells in Malaysia. <i>Natural Hazards</i> , 2022, 112, 1423-1475.	3.4	5
17	Water level prediction using various machine learning algorithms: a case study of Durian Tunggal river, Malaysia. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 422-440.	3.1	16
18	Predicting crop yields using a new robust Bayesian averaging model based on multiple hybrid ANFIS and MLP models. <i>Ain Shams Engineering Journal</i> , 2022, 13, 101724.	6.1	38

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19	A Review of Reservoir Operation Optimisations: from Traditional Models to Metaheuristic Algorithms. Archives of Computational Methods in Engineering, 2022, 29, 3435-3457.	10.2	29
20	Linear and stratified sampling-based deep learning models for improving the river streamflow forecasting to mitigate flooding disaster. Natural Hazards, 2022, 112, 1527-1545.	3.4	11
21	Using Metaheuristics Algorithms (MHAs) to Optimize Water Supply Operation in Reservoirs: a Review. Archives of Computational Methods in Engineering, 2022, 29, 3677-3711.	10.2	12
22	Machine learning algorithm as a sustainable tool for dissolved oxygen prediction: a case study of Feitsui Reservoir, Taiwan. Scientific Reports, 2022, 12, 3649.	3.3	15
23	Predicting streamflow in Peninsular Malaysia using support vector machine and deep learning algorithms. Scientific Reports, 2022, 12, 3883.	3.3	24
24	Review on generating optimal operation for dam and reservoir water system: simulation models and optimization algorithms. Applied Water Science, 2022, 12, 1.	5.6	4
25	Combining autoregressive integrated moving average with Long Short-Term Memory neural network and optimisation algorithms for predicting ground water level. Journal of Cleaner Production, 2022, 348, 131224.	9.3	33
26	Improved prediction of daily pan evaporation using Bayesian Model Averaging and optimized Kernel Extreme Machine models in different climates. Stochastic Environmental Research and Risk Assessment, 2022, 36, 3875-3910.	4.0	9
27	An inclusive multiple model for predicting total sediment transport rate in the presence of coastal vegetation cover based on optimized kernel extreme learning models. Environmental Science and Pollution Research, 2022, 29, 67180-67213.	5.3	7
28	A comparison of machine learning models for suspended sediment load classification. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 1211-1232.	3.1	10
29	Artificial neural network model with different backpropagation algorithms and meteorological data for solar radiation prediction. Scientific Reports, 2022, 12, .	3.3	23
30	Enhancement of Satellite Precipitation Estimations with Bias Correction and Data-Merging Schemes for Flood Forecasting. Journal of Hydrologic Engineering - ASCE, 2022, 27, .	1.9	3
31	State-of-the-Art Development of Two-Waves Artificial Intelligence Modeling Techniques for River Streamflow Forecasting. Archives of Computational Methods in Engineering, 2022, 29, 5185-5211.	10.2	4
32	Insights into the Multifaceted Applications of Architectural Concrete: A State-of-the-Art Review. Arabian Journal for Science and Engineering, 2021, 46, 4213-4223.	3.0	5
33	Performance improvement for infiltration rate prediction using hybridized Adaptive Neuro-Fuzzy Inferences System (ANFIS) with optimization algorithms. Ain Shams Engineering Journal, 2021, 12, 1665-1676.	6.1	29
34	Enhancing the performance of data-driven models for monthly reservoir evaporation prediction. Environmental Science and Pollution Research, 2021, 28, 8281-8295.	5.3	13
35	Rainfall forecasting model using machine learning methods: Case study Terengganu, Malaysia. Ain Shams Engineering Journal, 2021, 12, 1651-1663.	6.1	98
36	Potential of Epoxidised Natural Rubber Alumina Nanoparticles (ENRAN) sheet as local bridge pier scour countermeasure. Ain Shams Engineering Journal, 2021, 12, 1255-1265.	6.1	5

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37	Review on wastewater treatment ponds clogging under artificial recharge: Impacting factors and future modelling. <i>Journal of Water Process Engineering</i> , 2021, 40, 101848.	5.6	9
38	Developing reservoir evaporation predictive model for successful dam management. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 499-514.	4.0	11
39	Reservoir water balance simulation model utilizing machine learning algorithm. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 1365-1378.	6.4	25
40	Design of a hybrid ANN multi-objective whale algorithm for suspended sediment load prediction. <i>Environmental Science and Pollution Research</i> , 2021, 28, 1596-1611.	5.3	49
41	Review on Dam and Reservoir Optimal Operation for Irrigation and Hydropower Energy Generation Utilizing Meta-Heuristic Algorithms. <i>IEEE Access</i> , 2021, 9, 19488-19505.	4.2	21
42	Surface water quality status and prediction during movement control operation order under COVID-19 pandemic: Case studies in Malaysia. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 1009-1018.	3.5	43
43	Ozone Concentration Forecasting Based on Artificial Intelligence Techniques: A Systematic Review. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	26
44	Prediction of daily suspended sediment load (SSL) using new optimization algorithms and soft computing models. <i>Soft Computing</i> , 2021, 25, 7609-7626.	3.6	24
45	Suspended sediment load prediction using long short-term memory neural network. <i>Scientific Reports</i> , 2021, 11, 7826.	3.3	43
46	Investigating the application of artificial intelligence for earthquake prediction in Terengganu. <i>Natural Hazards</i> , 2021, 108, 977-999.	3.4	6
47	An assessment of sedimentation in Terengganu River, Malaysia using satellite imagery. <i>Ain Shams Engineering Journal</i> , 2021, 12, 3429-3438.	6.1	6
48	Optimizing the Operation Release Policy Using Charged System Search Algorithm: A Case Study of Klang Gates Dam, Malaysia. <i>Sustainability</i> , 2021, 13, 5900.	3.2	9
49	A new soft computing model for daily streamflow forecasting. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 2479-2491.	4.0	31
50	Total iron removal from aqueous solution by using modified clinoptilolite. <i>Ain Shams Engineering Journal</i> , 2021, 13, 101495-101495.	6.1	4
51	Monthly inflow forecasting utilizing advanced artificial intelligence methods: a case study of Haditha Dam in Iraq. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 2391-2410.	4.0	4
52	Extreme gradient boosting (Xgboost) model to predict the groundwater levels in Selangor Malaysia. <i>Ain Shams Engineering Journal</i> , 2021, 12, 1545-1556.	6.1	200
53	Evaluation of deep learning algorithm for inflow forecasting: a case study of Durian Tunggal Reservoir, Peninsular Malaysia. <i>Natural Hazards</i> , 2021, 109, 351-369.	3.4	27
54	RBFNN versus GRNN modeling approach for sub-surface evaporation rate prediction in arid region. <i>Sustainable Computing: Informatics and Systems</i> , 2021, 30, 100514.	2.2	7

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55	Investigating the reliability of machine learning algorithms as a sustainable tool for total suspended solid prediction. <i>Ain Shams Engineering Journal</i> , 2021, 12, 1607-1622.	6.1	18
56	Groundwater level as an input to monthly predicting of water level using various machine learning algorithms. <i>Earth Science Informatics</i> , 2021, 14, 1269-1283.	3.2	14
57	Optimization of hydropower reservoir operation based on hedging policy using Jaya algorithm. <i>Applied Soft Computing Journal</i> , 2021, 106, 107325.	7.2	30
58	A comprehensive comparison of recent developed meta-heuristic algorithms for streamflow time series forecasting problem. <i>Applied Soft Computing Journal</i> , 2021, 105, 107282.	7.2	56
59	A review of models for water level forecasting based on machine learning. <i>Earth Science Informatics</i> , 2021, 14, 1707-1728.	3.2	21
60	The copper grade estimation of porphyry deposits using machine learning algorithms and Henry gas solubility optimization. <i>Earth Science Informatics</i> , 2021, 14, 2049-2075.	3.2	8
61	Development of Crack Width Prediction Models for RC Beam-Column Joint Subjected to Lateral Cyclic Loading Using Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7700.	2.5	4
62	Exploring the reliability of different artificial intelligence techniques in predicting earthquake for Malaysia. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 147, 106826.	3.8	18
63	Predicting municipal solid waste using a coupled artificial neural network with archimedes optimisation algorithm and socioeconomic components. <i>Journal of Cleaner Production</i> , 2021, 315, 128039.	9.3	31
64	Developing machine learning algorithms for meteorological temperature and humidity forecasting at Terengganu state in Malaysia. <i>Scientific Reports</i> , 2021, 11, 18935.	3.3	52
65	Torsional Crack Localization in Palm Oil Clinker Concrete Using Acoustic Emission Method. <i>Materials</i> , 2021, 14, 5446.	2.9	1
66	Predicting freshwater production and energy consumption in a seawater greenhouse based on ensemble frameworks using optimized multi-layer perceptron. <i>Energy Reports</i> , 2021, 7, 6308-6326.	5.1	20
67	Optimal operation of multi-reservoir systems for increasing power generation using a seagull optimization algorithm and heading policy. <i>Energy Reports</i> , 2021, 7, 3703-3725.	5.1	13
68	Modeling the fluctuations of groundwater level by employing ensemble deep learning techniques. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1420-1439.	3.1	46
69	Hybrid deep learning model for ozone concentration prediction: comprehensive evaluation and comparison with various machine and deep learning algorithms. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 902-933.	3.1	24
70	Application of Artificial Intelligence Models for modeling Water Quality in Groundwater: Comprehensive Review, Evaluation and Future Trends. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	26
71	Optimization of reservoir operation at Klang Gate Dam utilizing a whale optimization algorithm and a Lévy flight and distribution enhancement technique. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1682-1702.	3.1	11
72	Streamflow prediction with large climate indices using several hybrid multilayer perceptrons and copula Bayesian model averaging. <i>Ecological Indicators</i> , 2021, 133, 108285.	6.3	36

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73	Enhancement of nitrogen prediction accuracy through a new hybrid model using ant colony optimization and an Elman neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1843-1867.	3.1	7
74	Predicting freshwater production in seawater greenhouses using hybrid artificial neural network models. <i>Journal of Cleaner Production</i> , 2021, 329, 129721.	9.3	15
75	ANFIS-based model for predicting actual shear rate associated with wall slip phenomenon. <i>Soft Computing</i> , 2020, 24, 9639-9649.	3.6	14
76	Improving artificial intelligence models accuracy for monthly streamflow forecasting using grey Wolf optimization (GWO) algorithm. <i>Journal of Hydrology</i> , 2020, 582, 124435.	5.4	160
77	Evaluation of bias-adjusted satellite precipitation estimations for extreme flood events in Langat river basin, Malaysia. <i>Hydrology Research</i> , 2020, 51, 105-126.	2.7	18
78	The Practical Influence of Climate Change on the Performance of Road Stormwater Drainage Infrastructure. <i>Journal of Engineering (United States)</i> , 2020, 2020, 1-13.	1.0	1
79	Delay Factors Management and Ranking for Reconstruction and Rehabilitation Projects Based on the Relative Importance Index (RII). <i>Sustainability</i> , 2020, 12, 6171.	3.2	11
80	Wavelet based hybrid ANN-ARIMA models for meteorological drought forecasting. <i>Journal of Hydrology</i> , 2020, 590, 125380.	5.4	118
81	Machine Learning Application in Reservoir Water Level Forecasting for Sustainable Hydropower Generation Strategy. <i>Sustainability</i> , 2020, 12, 6121.	3.2	68
82	Zoning map for drought prediction using integrated machine learning models with a nomadic people optimization algorithm. <i>Natural Hazards</i> , 2020, 104, 537-579.	3.4	56
83	Fault Detection of Bearing using Support Vector Machine-SVM. , 2020, , .		7
84	Adaptive Fast Orthogonal Search (FOS) algorithm for forecasting streamflow. <i>Journal of Hydrology</i> , 2020, 586, 124896.	5.4	28
85	Performance Enhancement Model for Rainfall Forecasting Utilizing Integrated Wavelet-Convolutional Neural Network. <i>Water Resources Management</i> , 2020, 34, 2371-2387.	3.9	42
86	Machine learning versus linear regression modelling approach for accurate ozone concentrations prediction. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 713-725.	3.1	39
87	Reference Evapotranspiration Modeling Using New Heuristic Methods. <i>Entropy</i> , 2020, 22, 547.	2.2	30
88	Review of Nitrogen Compounds Prediction in Water Bodies Using Artificial Neural Networks and Other Models. <i>Sustainability</i> , 2020, 12, 4359.	3.2	23
89	Hybrid model to improve the river streamflow forecasting utilizing multi-layer perceptron-based intelligent water drop optimization algorithm. <i>Soft Computing</i> , 2020, 24, 18039-18056.	3.6	34
90	Rainfall-runoff modelling using improved machine learning methods: Harris hawks optimizer vs. particle swarm optimization. <i>Journal of Hydrology</i> , 2020, 589, 125133.	5.4	94

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91	Complex Extreme Sea Levels Prediction Analysis: Karachi Coast Case Study. <i>Entropy</i> , 2020, 22, 549.	2.2	9
92	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. <i>Scientific Reports</i> , 2020, 10, 4684.	3.3	55
93	Optimized fuzzy inference system to enhance prediction accuracy for influent characteristics of a sewage treatment plant. <i>Science of the Total Environment</i> , 2020, 722, 137878.	8.0	31
94	Enhancing the Prediction Accuracy of Data-Driven Models for Monthly Streamflow in Urmia Lake Basin Based upon the Autoregressive Conditionally Heteroskedastic Time-Series Model. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 571.	2.5	23
95	Investigating the Influence of Meteorological Parameters on the Accuracy of Sea-Level Prediction Models in Sabah, Malaysia. <i>Sustainability</i> , 2020, 12, 1193.	3.2	18
96	Physicochemical parameters data assimilation for efficient improvement of water quality index prediction: Comparative assessment of a noise suppression hybridization approach. <i>Journal of Cleaner Production</i> , 2020, 271, 122576.	9.3	56
97	Application of non-parametric approaches to identify trend in streamflow during 1976â€“2007 (Naula) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 6.4 17	6.4	17
98	Efficient river water quality index prediction considering minimal number of inputs variables. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 751-763.	3.1	42
99	Suspended sediment load prediction using artificial neural network and ant lion optimization algorithm. <i>Environmental Science and Pollution Research</i> , 2020, 27, 38094-38116.	5.3	67
100	Enhancement of Groundwater-Level Prediction Using an Integrated Machine Learning Model Optimized by Whale Algorithm. <i>Natural Resources Research</i> , 2020, 29, 3233-3252.	4.7	62
101	Crow Algorithm for Irrigation Management: A Case Study. <i>Water Resources Management</i> , 2020, 34, 1021-1045.	3.9	14
102	Accuracy enhancement for monthly evaporation predicting model utilizing evolutionary machine learning methods. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 3373-3396.	3.5	24
103	Artificial Neural Network (ANN) model development for predicting just suspension speed in solid-liquid mixing system. <i>Flow Measurement and Instrumentation</i> , 2020, 71, 101689.	2.0	20
104	Estimation of total dissolved solids (TDS) using new hybrid machine learning models. <i>Journal of Hydrology</i> , 2020, 587, 124989.	5.4	63
105	Feedforward Artificial Neural Network-Based Model for Predicting the Removal of Phenolic Compounds from Water by Using Deep Eutectic Solvent-Functionalized CNTs. <i>Molecules</i> , 2020, 25, 1511.	3.8	11
106	Adaptive neuro-fuzzy inference system coupled with shuffled frog leaping algorithm for predicting river streamflow time series. <i>Hydrological Sciences Journal</i> , 2020, 65, 1738-1751.	2.6	75
107	Advanced machine learning model for better prediction accuracy of soil temperature at different depths. <i>PLoS ONE</i> , 2020, 15, e0231055.	2.5	59
108	Precision of raw and bias-adjusted satellite precipitation estimations (TRMM, IMERG, CMORPH, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Climate Change, 2020, 11, 322-342.	2.9	17

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109	Pipeline Scour Rates Prediction-Based Model Utilizing a Multilayer Perceptron-Colliding Body Algorithm. <i>Water (Switzerland)</i> , 2020, 12, 902.	2.7	23
110	Integrated finite element and artificial neural network methods for constructing asphalt concrete dynamic modulus master curve using deflection time-history data. <i>Construction and Building Materials</i> , 2020, 257, 119549.	7.2	12
111	Optimised neural network model for river-nitrogen prediction utilizing a new training approach. <i>PLoS ONE</i> , 2020, 15, e0239509.	2.5	20
112	Application of Artificial Neural Network for Forecasting Nitrate Concentration as a Water Quality Parameter: A Case Study of Feitsui Reservoir, Taiwan. <i>International Journal of Design and Nature and Ecodynamics</i> , 2020, 15, 647-652.	0.5	24
113	Hydraulic Modelling Analysis for Road Stormwater Drainage Evaluation under RCPs-Based Rainfall Data. <i>Civil Engineering and Architecture</i> , 2020, 8, 1335-1349.	0.4	0
114	Assessing the Predictability of an Improved ANFIS Model for Monthly Streamflow Using Lagged Climate Indices as Predictors. <i>Water (Switzerland)</i> , 2019, 11, 1130.	2.7	44
115	A novel Master-Slave optimization algorithm for generating an optimal release policy in case of reservoir operation. <i>Journal of Hydrology</i> , 2019, 577, 123959.	5.4	19
116	New Evolutionary Algorithm for Optimizing Hydropower Generation Considering Multi-reservoir Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2280.	2.5	24
117	Accuracy Enhancement for Zone Mapping of a Solar Radiation Forecasting Based Multi-Objective Model for Better Management of the Generation of Renewable Energy. <i>Energies</i> , 2019, 12, 2730.	3.1	18
118	Efficient forecasting model technique for river stream flow in tropical environment. <i>Urban Water Journal</i> , 2019, 16, 183-192.	2.1	16
119	Reservoir Evaporation Prediction Modeling Based on Artificial Intelligence Methods. <i>Water (Switzerland)</i> , 2019, 11, 1226.	2.7	31
120	Water Quality Prediction Model Based Support Vector Machine Model for Ungauged River Catchment under Dual Scenarios. <i>Water (Switzerland)</i> , 2019, 11, 1231.	2.7	88
121	Materials Challenges in Reconstruction of Historical Projects: A Case Study of the Old Riwaq Project. <i>Sustainability</i> , 2019, 11, 4533.	3.2	2
122	Investigation on the Potential to Integrate Different Artificial Intelligence Models with Metaheuristic Algorithms for Improving River Suspended Sediment Predictions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4149.	2.5	24
123	Machine learning methods for better water quality prediction. <i>Journal of Hydrology</i> , 2019, 578, 124084.	5.4	256
124	ANNs and inflow forecast to aid stochastic optimization of reservoir operation. <i>Journal of Applied Water Engineering and Research</i> , 2019, 7, 314-323.	1.8	6
125	Prediction of Suspended Sediment Load Using Data-Driven Models. <i>Water (Switzerland)</i> , 2019, 11, 2060.	2.7	49
126	Improving Dam and Reservoir Operation Rules Using Stochastic Dynamic Programming and Artificial Neural Network Integration Model. <i>Sustainability</i> , 2019, 11, 5367.	3.2	16

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127	Modeling the Nonlinearity of Sea Level Oscillations in the Malaysian Coastal Areas Using Machine Learning Algorithms. <i>Sustainability</i> , 2019, 11, 4643.	3.2	23
128	Enhancing streamflow forecasting using the augmenting ensemble procedure coupled machine learning models: case study of Aswan High Dam. <i>Hydrological Sciences Journal</i> , 2019, 64, 1629-1646.	2.6	42
129	Artificial Neural Network Approach for Modelling of Mercury Ions Removal from Water Using Functionalized CNTs with Deep Eutectic Solvent. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4206.	4.1	13
130	Toward Bridging Future Irrigation Deficits Utilizing the Shark Algorithm Integrated with a Climate Change Model. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3960.	2.5	8
131	A clean approach for functionalized carbon nanotubes by deep eutectic solvents and their performance in the adsorption of methyl orange from aqueous solution. <i>Journal of Environmental Management</i> , 2019, 235, 521-534.	7.8	58
132	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. <i>PLoS ONE</i> , 2019, 14, e0217499.	2.5	51
133	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. <i>Sustainability</i> , 2019, 11, 2337.	3.2	23
134	Multi-Reservoir System Optimization Based on Hybrid Gravitational Algorithm to Minimize Water-Supply Deficiencies. <i>Water Resources Management</i> , 2019, 33, 2741-2760.	3.9	20
135	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. <i>PLoS ONE</i> , 2019, 14, e0217634.	2.5	39
136	Review on heavy metal adsorption processes by carbon nanotubes. <i>Journal of Cleaner Production</i> , 2019, 230, 783-793.	9.3	312
137	Towards a time and cost effective approach to water quality index class prediction. <i>Journal of Hydrology</i> , 2019, 575, 148-165.	5.4	75
138	Mercury removal from water using deep eutectic solvents- ϵ -functionalized multi walled carbon nanotubes: Nonlinear autoregressive network with an exogenous input neural network approach. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13261.	2.3	8
139	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.	3.2	30
140	Rheological wall slip velocity prediction model based on artificial neural network. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2019, 31, 659-676.	2.8	18
141	Wavelet Transform Based Method for River Stream Flow Time Series Frequency Analysis and Assessment in Tropical Environment. <i>Water Resources Management</i> , 2019, 33, 2015-2032.	3.9	16
142	Sensitivity analysis of artificial neural networks for just-suspension speed prediction in solid-liquid mixing systems: Performance comparison of MLPNN and RBFNN. <i>Advanced Engineering Informatics</i> , 2019, 39, 278-291.	8.0	21
143	Application of a Coordination Model for a Large Number of Stakeholders with a New Game Theory Model. <i>Water Resources Management</i> , 2019, 33, 5207-5230.	3.9	2
144	Precipitation Forecasting Using Multilayer Neural Network and Support Vector Machine Optimization Based on Flow Regime Algorithm Taking into Account Uncertainties of Soft Computing Models. <i>Sustainability</i> , 2019, 11, 6681.	3.2	30

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145	A New Method for Flood Routing Utilizing Four-Parameter Nonlinear Muskingum and Shark Algorithm. <i>Water Resources Management</i> , 2019, 33, 4879-4893.	3.9	14
146	A hybrid batâ€‘swarm algorithm for optimizing dam and reservoir operation. <i>Neural Computing and Applications</i> , 2019, 31, 8807-8821.	5.6	68
147	Forecasting hydrological parameters for reservoir system utilizing artificial intelligent models and exploring their influence on operation performance. <i>Knowledge-Based Systems</i> , 2019, 163, 907-926.	7.1	30
148	New approach to mimic rheological actual shear rate under wall slip condition. <i>Engineering With Computers</i> , 2019, 35, 1409-1418.	6.1	12
149	Leachate generation rate modeling using artificial intelligence algorithms aided by input optimization method for an MSW landfill. <i>Environmental Science and Pollution Research</i> , 2019, 26, 3368-3381.	5.3	54
150	Novel reservoir system simulation procedure for gap minimization between water supply and demand. <i>Journal of Cleaner Production</i> , 2019, 206, 928-943.	9.3	32
151	Identification of potential sites for runoff water harvesting. <i>Water Management</i> , 2019, 172, 135-148.	1.2	23
152	Optimization of energy management and conversion in the water systems based on evolutionary algorithms. <i>Neural Computing and Applications</i> , 2019, 31, 5951-5964.	5.6	23
153	Analysing the accuracy of machine learning techniques to develop an integrated influent time series model: case study of a sewage treatment plant, Malaysia. <i>Environmental Science and Pollution Research</i> , 2018, 25, 12139-12149.	5.3	30
154	The influence of climatic inputs on stream-flow pattern forecasting: case study of Upper Senegal River. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	45
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156	Review on applications of artificial intelligence methods for dam and reservoir-hydro-environment models. <i>Environmental Science and Pollution Research</i> , 2018, 25, 13446-13469.	5.3	50
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