Ahmed El-Shafie

List of Publications by Year
in descending order

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311 papers	11,317 citations	32261 53 h-index	51932 86 g-index
323 all docs	323 docs citations	323 times ranked	6948 citing authors

#	Article	IF	Citations
1	Artificial intelligence based models for stream-flow forecasting: 2000â€“2015. Journal of Hydrology, 2015, 530, 829-844.	5.5	392
2	Review on heavy metal adsorption processes by carbon nanotubes. Journal of Cleaner Production, 2019, 230, 783-793.	9.4	312
3	Performance Enhancement of MEMS-Based INS/GPS Integration for Low-Cost Navigation Applications. IEEE Transactions on Vehicular Technology, 2009, 58, 1077-1096.	6.3	297
4	Stream-flow forecasting using extreme learning machines: A case study in a semi-arid region in Iraq. Journal of Hydrology, 2016, 542, 603-614.	5.5	257
5	Machine learning methods for better water quality prediction. Journal of Hydrology, 2019, 578, 124084.	5.5	256
6	Reservoir Optimization in Water Resources: a Review. Water Resources Management, 2014, 28, 3391-3405.	3.9	222
7	Extreme gradient boosting (Xgboost) model to predict the groundwater levels in Selangor Malaysia. Ain Shams Engineering Journal, 2021, 12, 1545-1556.	6.4	200
8	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. Journal of Hydrology, 2017, 554, 263-276.	5.5	192
9	GPS/INS integration utilizing dynamic neural networks for vehicular navigation. Information Fusion, 2011, 12, 48-57.	19.4	183
10	A neuro-fuzzy model for inflow forecasting of the Nile river at Aswan high dam. Water Resources Management, 2007, 21, 533-556.	3.9	166
11	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.	5.5	160
12	Improving artificial intelligence models accuracy for monthly streamflow forecasting using grey Wolf optimization (GWO) algorithm. Journal of Hydrology, 2020, 582, 124435.	5.5	160
13	Daily Forecasting of Dam Water Levels: Comparing a Support Vector Machine (SVM) Model With Adaptive Neuro Fuzzy Inference System (ANFIS). Water Resources Management, 2013, 27, 3803-3823.	3.9	143
14	Application of artificial neural networks for water quality prediction. Neural Computing and Applications, 2013, 22, 187-201.	5.5	133
15	ANN Based Sediment Prediction Model Utilizing Different Input Scenarios. Water Resources Management, 2015, 29, 1231-1245.	3.9	132
16	Wavelet based hybrid ANN-ARIMA models for meteorological drought forecasting. Journal of Hydrology, 2020, 590, 125380.	5.5	118
17	A modified gravitational search algorithm for slope stability analysis. Engineering Applications of Artificial Intelligence, 2012, 25, 1589-1597.	8.2	113
18	A review of the hybrid artificial intelligence and optimization modelling of hydrological streamflow forecasting. AEJ - Alexandria Engineering Journal, 2022, 61, 279-303.	6.6	106

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19	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
20	Past, present and prospect of an Artificial Intelligence (AI) based model for sediment transport prediction. Journal of Hydrology, 2016, 541, 902-913.	5.5	101
21	Performance of ANFIS versus MLP-NN dissolved oxygen prediction models in water quality monitoring. Environmental Science and Pollution Research, 2014, 21, 1658-1670.	5.3	99
22	Rainfall forecasting model using machine learning methods: Case study Terengganu, Malaysia. Ain Shams Engineering Journal, 2021, 12, 1651-1663.	6.4	98
23	The state-of-the-art system dynamics application in integrated water resources modeling. Journal of Environmental Management, 2018, 227, 294-304.	7.9	97
24	Rainfall-runoff modelling using improved machine learning methods: Harris hawks optimizer vs. particle swarm optimization. Journal of Hydrology, 2020, 589, 125133.	5.5	94
25	Uncertainty assessment of the multilayer perceptron (MLP) neural network model with implementation of the novel hybrid MLP-FFA method for prediction of biochemical oxygen demand and dissolved oxygen: a case study of Langat River. Environmental Earth Sciences, 2017, 76, 1.	2.7	94
26	Water Quality Prediction Model Based Support Vector Machine Model for Ungauged River Catchment under Dual Scenarios. Water (Switzerland), 2019, 11, 1231.	2.8	88
27	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. Journal of Hydroinformatics, 2018, 20, 332-355.	2.4	84
28	Intelligent Systems in Optimizing Reservoir Operation Policy: A Review. Water Resources Management, 2013, 27, 3387-3407.	3.9	81
29	Reservoir-system simulation and optimization techniques. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1751-1772.	4.1	80
30	RBFNN versus FFNN for daily river flow forecasting at Johor River, Malaysia. Neural Computing and Applications, 2016, 27, 1533-1542.	5.5	79
31	Optimizing dam and reservoirs operation based model utilizing shark algorithm approach. Knowledge-Based Systems, 2017, 122, 26-38.	7.2	79
32	Ultrasonic health monitoring in structural engineering: buildings and bridges. Structural Control and Health Monitoring, 2016, 23, 409-422.	3.9	77
33	Non-tuned machine learning approach for hydrological time series forecasting. Neural Computing and Applications, 2018, 30, 1479-1491.	5.5	76
34	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
35	Towards a time and cost effective approach to water quality index class prediction. Journal of Hydrology, 2019, 575, 148-165.	5.5	75
36	Adaptive neuro-fuzzy inference system coupled with shuffled frog leaping algorithm for predicting river streamflow time series. Hydrological Sciences Journal, 2020, 65, 1738-1751.	2.6	75

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37	Water quality prediction model utilizing integrated wavelet-ANFIS model with cross-validation. Neural Computing and Applications, 2012, 21, 833-841.	5.5	71
38	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
39	Modified particle swarm optimization for optimum design of spread footing and retaining wall. Journal of Zhejiang University: Science A, 2011, 12, 415-427.	2.4	69
40	A hybrid batâ€“swarm algorithm for optimizing dam and reservoir operation. Neural Computing and Applications, 2019, 31, 8807-8821.	5.5	68
41	Machine Learning Application in Reservoir Water Level Forecasting for Sustainable Hydropower Generation Strategy. Sustainability, 2020, 12, 6121.	3.3	68
42	Suspended sediment load prediction using artificial neural network and ant lion optimization algorithm. Environmental Science and Pollution Research, 2020, 27, 38094-38116.	5.3	67
43	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.	2.8	64
44	Optimizing neuro-fuzzy modules for data fusion of vehicular navigation systems using temporal cross-validation. Engineering Applications of Artificial Intelligence, 2007, 20, 49-61.	8.2	63
45	Dynamic versus static neural network model for rainfall forecasting at Klang River Basin, Malaysia. Hydrology and Earth System Sciences, 2012, 16, 1151-1169.	4.9	63
46	Improving Rainfall Forecasting Efficiency Using Modified Adaptive Neuro-Fuzzy Inference System (MANFIS). Water Resources Management, 2013, 27, 3507-3523.	3.9	63
47	Estimation of total dissolved solids (TDS) using new hybrid machine learning models. Journal of Hydrology, 2020, 587, 124989.	5.5	63
48	Enhancement of Groundwater-Level Prediction Using an Integrated Machine Learning Model Optimized by Whale Algorithm. Natural Resources Research, 2020, 29, 3233-3252.	4.7	62
49	Enhancing Inflow Forecasting Model at Aswan High Dam Utilizing Radial Basis Neural Network and Upstream Monitoring Stations Measurements. Water Resources Management, 2009, 23, 2289-2315.	3.9	61
50	Advanced machine learning model for better prediction accuracy of soil temperature at different depths. PLoS ONE, 2020, 15, e0231055.	2.5	59
51	A clean approach for functionalized carbon nanotubes by deep eutectic solvents and their performance in the adsorption of methyl orange from aqueous solution. Journal of Environmental Management, 2019, 235, 521-534.	7.9	58
52	Zoning map for drought prediction using integrated machine learning models with a nomadic people optimization algorithm. Natural Hazards, 2020, 104, 537-579.	3.5	56
53	Physicochemical parameters data assimilation for efficient improvement of water quality index prediction: Comparative assessment of a noise suppression hybridization approach. Journal of Cleaner Production, 2020, 271, 122576.	9.4	56
54	A comprehensive comparison of recent developed meta-heuristic algorithms for streamflow time series forecasting problem. Applied Soft Computing Journal, 2021, 105, 107282.	7.3	56

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55	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. Scientific Reports, 2020, 10, 4684.	3.4	55
56	Leachate generation rate modeling using artificial intelligence algorithms aided by input optimization method for an MSW landfill. Environmental Science and Pollution Research, 2019, 26, 3368-3381.	5.3	54
57	Developing machine learning algorithms for meteorological temperature and humidity forecasting at Terengganu state in Malaysia. Scientific Reports, 2021, 11, 18935.	3.4	52
58	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. PLoS ONE, 2019, 14, e0217499.	2.5	51
59	Review on applications of artificial intelligence methods for dam and reservoir-hydro-environment models. Environmental Science and Pollution Research, 2018, 25, 13446-13469.	5.3	50
60	Prediction of Suspended Sediment Load Using Data-Driven Models. Water (Switzerland), 2019, 11, 2060.	2.8	49
61	Design of a hybrid ANN multi-objective whale algorithm for suspended sediment load prediction. Environmental Science and Pollution Research, 2021, 28, 1596-1611.	5.3	49
62	The potential of a novel support vector machine trained with modified mayfly optimization algorithm for streamflow prediction. Hydrological Sciences Journal, 2022, 67, 161-174.	2.6	47
63	Application of the generalized likelihood uncertainty estimation (GLUE) approach for assessing uncertainty in hydrological models: a review. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1265-1273.	4.1	46
64	Modeling the fluctuations of groundwater level by employing ensemble deep learning techniques. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1420-1439.	3.2	46
65	Nanofiltration membrane modification by UV grafting for salt rejection and fouling resistance improvement for brackish water desalination. Desalination, 2012, 295, 16-25.	8.3	45
66	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
67	RBFNN-based model for heavy metal prediction for different climatic and pollution conditions. Neural Computing and Applications, 2017, 28, 1991-2003.	5.5	44
68	Assessing the Predictability of an Improved ANFIS Model for Monthly Streamflow Using Lagged Climate Indices as Predictors. Water (Switzerland), 2019, 11, 1130.	2.8	44
69	Surface water quality status and prediction during movement control operation order under COVID-19 pandemic: Case studies in Malaysia. International Journal of Environmental Science and Technology, 2021, 18, 1009-1018.	3.4	43
70	Suspended sediment load prediction using long short-term memory neural network. Scientific Reports, 2021, 11, 7826.	3.4	43
71	Reservoir Operation by a New Evolutionary Algorithm: Kidney Algorithm. Water Resources Management, 2018, 32, 4681-4706.	3.9	42
72	Enhancing streamflow forecasting using the augmenting ensemble procedure coupled machine learning models: case study of Aswan High Dam. Hydrological Sciences Journal, 2019, 64, 1629-1646.	2.6	42

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73	Performance Enhancement Model for Rainfall Forecasting Utilizing Integrated Wavelet-Convolutional Neural Network. Water Resources Management, 2020, 34, 2371-2387.	3.9	42
74	Efficient river water quality index prediction considering minimal number of inputs variables. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 751-763.	3.2	42
75	Utilizing RBF-NN and ANFIS Methods for Multi-Lead ahead Prediction Model of Evaporation from Reservoir. Water Resources Management, 2016, 30, 4773-4788.	3.9	41
76	Heavy metal monitoring, analysis and prediction in lakes and rivers: state of the art. Environmental Science and Pollution Research, 2017, 24, 12104-12117.	5.3	41
77	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. Water (Switzerland), 2018, 10, 807.	2.8	41
78	Regional landfills methane emission inventory in Malaysia. Waste Management and Research, 2011, 29, 863-873.	4.0	40
79	RBF-NN-based model for prediction of weld bead geometry in Shielded Metal Arc Welding (SMAW). Neural Computing and Applications, 2018, 29, 889-899.	5.5	39
80	Wavelet-ANN versus ANN-Based Model for Hydrometeorological Drought Forecasting. Water (Switzerland), 2018, 10, 998.	2.8	39
81	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. PLoS ONE, 2019, 14, e0217634.	2.5	39
82	Machine learning versus linear regression modelling approach for accurate ozone concentrations prediction. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 713-725.	3.2	39
83	Forecasting the Level of Reservoirs Using Multiple Input Fuzzification in ANFIS. Water Resources Management, 2013, 27, 3319-3331.	3.9	38
84	Performance analysis of artificial bee colony (ABC) algorithm in optimizing release policy of Aswan High Dam. Neural Computing and Applications, 2014, 24, 1199-1206.	5.5	38
85	State-of-the-Art for Modelling Reservoir Inflows and Management Optimization. Water Resources Management, 2015, 29, 1267-1282.	3.9	38
86	Optimized River Stream-Flow Forecasting Model Utilizing High-Order Response Surface Method. Water Resources Management, 2016, 30, 3899-3914.	3.9	38
87	Optimization of Chain-Reservoirsâ€™ Operation with a New Approach in Artificial Intelligence. Water Resources Management, 2017, 31, 2085-2104.	3.9	38
88	Comparative study on using static and dynamic finite element models to develop FWD measurement on flexible pavement structures. Construction and Building Materials, 2018, 176, 583-592.	7.2	38
89	Predicting crop yields using a new robust Bayesian averaging model based on multiple hybrid ANFIS and MLP models. Ain Shams Engineering Journal, 2022, 13, 101724.	6.4	38
90	The Application of Artificial Bee Colony and Gravitational Search Algorithm in Reservoir Optimization. Water Resources Management, 2016, 30, 2497-2516.	3.9	37

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91	Generalized versus non-generalized neural network model for multi-lead inflow forecasting at Aswan High Dam. Hydrology and Earth System Sciences, 2011, 15, 841-858.	4.9	36
92	Integrated versus isolated scenario for prediction dissolved oxygen at progression of water quality monitoring stations. Hydrology and Earth System Sciences, 2011, 15, 2693-2708.	4.9	36
93	Rainfall data analyzing using moving average (MA) model and wavelet multi-resolution intelligent model for noise evaluation to improve the forecasting accuracy. Neural Computing and Applications, 2014, 25, 1853-1861.	5.5	36
94	Streamflow prediction with large climate indices using several hybrid multilayer perceptrons and copula Bayesian model averaging. Ecological Indicators, 2021, 133, 108285.	6.4	36
95	Tidal current turbines glance at the past and look into future prospects in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 5707-5717.	16.5	35
96	Flood Routing in River Reaches Using a Three-Parameter Muskingum Model Coupled with an Improved Bat Algorithm. Water (Switzerland), 2018, 10, 1130.	2.8	34
97	Hybrid model to improve the river streamflow forecasting utilizing multi-layer perceptron-based intelligent water drop optimization algorithm. Soft Computing, 2020, 24, 18039-18056.	3.6	34
98	Improved Water Level Forecasting Performance by Using Optimal Steepness Coefficients in an Artificial Neural Network. Water Resources Management, 2011, 25, 2525-2541.	3.9	33
99	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.	9.4	33
100	Novel reservoir system simulation procedure for gap minimization between water supply and demand. Journal of Cleaner Production, 2019, 206, 928-943.	9.4	32
101	Past, Present and Perspective Methodology for Groundwater Modeling-Based Machine Learning Approaches. Archives of Computational Methods in Engineering, 2022, 29, 3843-3859.	10.4	32
102	Optimized Neural Network Prediction Model for Potential Evapotranspiration Utilizing Ensemble Procedure. Water Resources Management, 2014, 28, 947-967.	3.9	31
103	Reservoir Evaporation Prediction Modeling Based on Artificial Intelligence Methods. Water (Switzerland), 2019, 11, 1226.	2.8	31
104	Optimized fuzzy inference system to enhance prediction accuracy for influent characteristics of a sewage treatment plant. Science of the Total Environment, 2020, 722, 137878.	8.1	31
105	A new soft computing model for daily streamflow forecasting. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2479-2491.	4.1	31
106	Predicting municipal solid waste using a coupled artificial neural network with archimedes optimisation algorithm and socioeconomic components. Journal of Cleaner Production, 2021, 315, 128039.	9.4	31
107	Generalized Regression Neural Network for Prediction of Peak Outflow from Dam Breach. Water Resources Management, 2017, 31, 549-562.	3.9	30
108	Analysing the accuracy of machine learning techniques to develop an integrated influent time series model: case study of a sewage treatment plant, Malaysia. Environmental Science and Pollution Research, 2018, 25, 12139-12149.	5.3	30

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109	A Novel Hybrid Evolutionary Data-Intelligence Algorithm for Irrigation and Power Production Management: Application to Multi-Purpose Reservoir Systems. Sustainability, 2019, 11, 1953.	3.3	30
110	Precipitation Forecasting Using Multilayer Neural Network and Support Vector Machine Optimization Based on Flow Regime Algorithm Taking into Account Uncertainties of Soft Computing Models. Sustainability, 2019, 11, 6681.	3.3	30
111	Forecasting hydrological parameters for reservoir system utilizing artificial intelligent models and exploring their influence on operation performance. Knowledge-Based Systems, 2019, 163, 907-926.	7.2	30
112	Reference Evapotranspiration Modeling Using New Heuristic Methods. Entropy, 2020, 22, 547.	2.2	30
113	Optimization of hydropower reservoir operation based on hedging policy using Jaya algorithm. Applied Soft Computing Journal, 2021, 106, 107325.	7.3	30
114	Neural Network Model for Nile River Inflow Forecasting Based on Correlation Analysis of Historical Inflow Data. Journal of Applied Sciences, 2008, 8, 4487-4499.	0.3	30
115	Fast convergence optimization model for single and multi-purposes reservoirs using hybrid algorithm. Advanced Engineering Informatics, 2017, 32, 287-298.	8.1	29
116	Synchronizing Artificial Intelligence Models for Operating the Dam and Reservoir System. Water Resources Management, 2018, 32, 3373-3389.	3.9	29
117	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.	6.4	29
118	A Review of Reservoir Operation Optimisations: from Traditional Models to Metaheuristic Algorithms. Archives of Computational Methods in Engineering, 2022, 29, 3435-3457.	10.4	29
119	Neural network modeling of time-dependent creep deformations in masonry structures. Neural Computing and Applications, 2010, 19, 583-594.	5.5	28
120	Integrated Artificial Neural Network (ANN) and Stochastic Dynamic Programming (SDP) Model for Optimal Release Policy. Water Resources Management, 2013, 27, 3679-3696.	3.9	28
121	Multi-lead ahead prediction model of reference evapotranspiration utilizing ANN with ensemble procedure. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1423-1440.	4.1	28
122	Uncertainty analysis for extreme flood events in a semi-arid region. Natural Hazards, 2015, 78, 1947-1960.	3.5	28
123	Adaptive Fast Orthogonal Search (FOS) algorithm for forecasting streamflow. Journal of Hydrology, 2020, 586, 124896.	5.5	28
124	Spatiotemporal variability analysis of standardized precipitation indexed droughts using wavelet transform. Journal of Hydrology, 2022, 605, 127299.	5.5	28
125	Uncertainty Estimation in Flood Inundation Mapping: An Application of Nonâ€parametric Bootstrapping. River Research and Applications, 2017, 33, 611-619.	1.6	27
126	An evaluation of existent methods for estimation of embankment dam breach parameters. Natural Hazards, 2017, 87, 545-566.	3.5	27

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127	Influence of bed deposit in the prediction of incipient sediment motion in sewers using artificial neural networks. Urban Water Journal, 2018, 15, 296-302.	2.1	27
128	Self-adaptive conjugate method for a robust and efficient performance measure approach for reliability-based design optimization. Engineering With Computers, 2018, 34, 187-202.	5.8	27
129	Evaluation of deep learning algorithm for inflow forecasting: a case study of Durian Tunggal Reservoir, Peninsular Malaysia. Natural Hazards, 2021, 109, 351-369.	3.5	27
130	An integrated neural network stochastic dynamic programming model for optimizing the operation policy of Aswan High Dam. Hydrology Research, 2011, 42, 50-67.	2.6	26
131	Artificial intelligence and geo-statistical models for stream-flow forecasting in ungauged stations: state of the art. Natural Hazards, 2017, 86, 1377-1392.	3.5	26
132	Ensuring water security by utilizing roof-harvested rainwater and lake water treated with a low-cost integrated adsorption-filtration system. Water Science and Engineering, 2017, 10, 115-124.	3.3	26
133	Ozone Concentration Forecasting Based on Artificial Intelligence Techniques: A Systematic Review. Water, Air, and Soil Pollution, 2021, 232, 1.	2.5	26
134	Application of Artificial Intelligence Models for modeling Water Quality in Groundwater: Comprehensive Review, Evaluation and Future Trends. Water, Air, and Soil Pollution, 2021, 232, 1.	2.5	26
135	Dielectric and hardness measurements of planetary analog rocks in support of in-situ subsurface sampling. Planetary and Space Science, 2013, 86, 150-154.	1.7	25
136	Evolutionary techniques versus swarm intelligences: application in reservoir release optimization. Neural Computing and Applications, 2014, 24, 1583-1594.	5.5	25
137	Bat algorithm for damâ€“reservoir operation. Environmental Earth Sciences, 2018, 77, 1.	2.7	25
138	Optimization of Reservoir Operation using New Hybrid Algorithm. KSCE Journal of Civil Engineering, 2018, 22, 4668-4680.	2.0	25
139	Reservoir water balance simulation model utilizing machine learning algorithm. AEJ - Alexandria Engineering Journal, 2021, 60, 1365-1378.	6.6	25
140	Application of artificial neural network in estimating monthly time series reference evapotranspiration with minimum and maximum temperatures. Paddy and Water Environment, 2011, 9, 207-220.	1.8	24
141	Amplified wavelet-ANFIS-based model for GPS/INS integration to enhance vehicular navigation system. Neural Computing and Applications, 2014, 24, 1905-1916.	5.5	24
142	Robust approach for optimal positioning and ranking potential rainwater harvesting structure (RWH): a case study of Iraq. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	24
143	The modelling of lead removal from water by deep eutectic solvents functionalized CNTs: artificial neural network (ANN) approach. Water Science and Technology, 2017, 76, 2413-2426.	2.5	24
144	New Evolutionary Algorithm for Optimizing Hydropower Generation Considering Multireservoir Systems. Applied Sciences (Switzerland), 2019, 9, 2280.	2.6	24

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145	Investigation on the Potential to Integrate Different Artificial Intelligence Models with Metaheuristic Algorithms for Improving River Suspended Sediment Predictions. Applied Sciences (Switzerland), 2019, 9, 4149.	2.6	24
146	Accuracy enhancement for monthly evaporation predicting model utilizing evolutionary machine learning methods. International Journal of Environmental Science and Technology, 2020, 17, 3373-3396.	3.4	24
147	Prediction of daily suspended sediment load (SSL) using new optimization algorithms and soft computing models. Soft Computing, 2021, 25, 7609-7626.	3.6	24
148	Hybrid deep learning model for ozone concentration prediction: comprehensive evaluation and comparison with various machine and deep learning algorithms. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 902-933.	3.2	24
149	Application of Artificial Neural Network for Forecasting Nitrate Concentration as a Water Quality Parameter: A Case Study of Feitsui Reservoir, Taiwan. International Journal of Design and Nature and Ecodynamics, 2020, 15, 647-652.	0.5	24
150	Predicting streamflow in Peninsular Malaysia using support vector machine and deep learning algorithms. Scientific Reports, 2022, 12, 3883.	3.4	24
151	Reservoir inflow forecasting with a modified coactive neuro-fuzzy inference system: a case study for a semi-arid region. Theoretical and Applied Climatology, 2018, 134, 545-563.	2.8	23
152	Operating a reservoir system based on the shark machine learning algorithm. Environmental Earth Sciences, 2018, 77, 1.	2.7	23
153	Modeling the Nonlinearity of Sea Level Oscillations in the Malaysian Coastal Areas Using Machine Learning Algorithms. Sustainability, 2019, 11, 4643.	3.3	23
154	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. Sustainability, 2019, 11, 2337.	3.3	23
155	Identification of potential sites for runoff water harvesting. Water Management, 2019, 172, 135-148.	1.2	23
156	Optimization of energy management and conversion in the water systems based on evolutionary algorithms. Neural Computing and Applications, 2019, 31, 5951-5964.	5.5	23
157	Review of Nitrogen Compounds Prediction in Water Bodies Using Artificial Neural Networks and Other Models. Sustainability, 2020, 12, 4359.	3.3	23
158	Enhancing the Prediction Accuracy of Data-Driven Models for Monthly Streamflow in Urmia Lake Basin Based upon the Autoregressive Conditionally Heteroskedastic Time-Series Model. Applied Sciences (Switzerland), 2020, 10, 571.	2.6	23
159	Pipeline Scour Rates Prediction-Based Model Utilizing a Multilayer Perceptron-Colliding Body Algorithm. Water (Switzerland), 2020, 12, 902.	2.8	23
160	Artificial neural network model with different backpropagation algorithms and meteorological data for solar radiation prediction. Scientific Reports, 2022, 12, .	3.4	23
161	Adaptive neuro-fuzzy module for inertial navigation system/global positioning system integration utilising position and velocity updates with real-time cross-validation. IET Radar, Sonar and Navigation, 2007, 1, 388.	1.8	22
162	Harmonize input selection for sediment transport prediction. Journal of Hydrology, 2017, 552, 366-375.	5.5	22

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163	Support vector regression-based model for prediction of behavior stone column parameters in soft clay under highway embankment. Neural Computing and Applications, 2018, 30, 2459-2469.	5.5	22
164	Exploring Bayesian model averaging with multiple ANNs for meteorological drought forecasts. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1835-1860.	4.1	22
165	Optimization of areaâ€“volumeâ€“elevation curve using GISâ€“SRTM method for rainwater harvesting in arid areas. Environmental Earth Sciences, 2017, 76, 1.	2.7	21
166	Sensitivity analysis of artificial neural networks for just-suspension speed prediction in solid-liquid mixing systems: Performance comparison of MLPNN and RBFNN. Advanced Engineering Informatics, 2019, 39, 278-291.	8.1	21
167	Review on Dam and Reservoir Optimal Operation for Irrigation and Hydropower Energy Generation Utilizing Meta-Heuristic Algorithms. IEEE Access, 2021, 9, 19488-19505.	4.3	21
168	A review of models for water level forecasting based on machine learning. Earth Science Informatics, 2021, 14, 1707-1728.	3.2	21
169	Reliability analysis of earth slopes using hybrid chaotic particle swarm optimization. Journal of Central South University, 2011, 18, 1626-1637.	3.1	20
170	Optimisation of Multiple Hydropower Reservoir Operation Using Artificial Bee Colony Algorithm. Water Resources Management, 2017, 31, 1397-1411.	3.9	20
171	Multi-Reservoir System Optimization Based on Hybrid Gravitational Algorithm to Minimize Water-Supply Deficiencies. Water Resources Management, 2019, 33, 2741-2760.	3.9	20
172	Artificial Neural Network (ANN) model development for predicting just suspension speed in solid-liquid mixing system. Flow Measurement and Instrumentation, 2020, 71, 101689.	2.0	20
173	Development of prediction model for phosphate in reservoir water system based machine learning algorithms. Ain Shams Engineering Journal, 2022, 13, 101523.	6.4	20
174	Predicting freshwater production and energy consumption in a seawater greenhouse based on ensemble frameworks using optimized multi-layer perceptron. Energy Reports, 2021, 7, 6308-6326.	5.1	20
175	Optimised neural network model for river-nitrogen prediction utilizing a new training approach. PLoS ONE, 2020, 15, e0239509.	2.5	20
176	Inclusive Multiple Model Using Hybrid Artificial Neural Networks for Predicting Evaporation. Frontiers in Environmental Science, 2022, 9, .	3.3	20
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