Ahmed El-Shafie

List of Publications by Citations

299 papers	6,796 citations	41 h-index	67 g-index
322 ext. papers	8,814 ext. citations	4 avg, IF	6.7 L-index

#	Paper	IF	Citations
299	Artificial intelligence based models for stream-flow forecasting: 2000–2015. *Journal of Hydrology*, **2015**, 530, 829-844	6	269
298	Performance Enhancement of MEMS-Based INS/GPS Integration for Low-Cost Navigation Applications. *IEEE Transactions on Vehicular Technology*, **2009**, 58, 1077-1096	6.8	233
297	Stream-flow forecasting using extreme learning machines: A case study in a semi-arid region in Iraq. *Journal of Hydrology*, **2016**, 542, 603-614	6	191
296	Review on heavy metal adsorption processes by carbon nanotubes. *Journal of Cleaner Production*, **2019**, 230, 783-793	10.3	181
295	Reservoir Optimization in Water Resources: a Review. *Water Resources Management*, **2014**, 28, 3391-3405	3.7	160
294	A neuro-fuzzy model for inflow forecasting of the Nile river at Aswan high dam. *Water Resources Management*, **2007**, 21, 533-556	3.7	150
293	GPS/INS integration utilizing dynamic neural networks for vehicular navigation. *Information Fusion*, **2011**, 12, 48-57	16.7	146
292	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. *Journal of Hydrology*, **2017**, 554, 263-276	6	134
291	Machine learning methods for better water quality prediction. *Journal of Hydrology*, **2019**, 578, 124084	6	111
290	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	3.7	109
289	ANN Based Sediment Prediction Model Utilizing Different Input Scenarios. *Water Resources Management*, **2015**, 29, 1231-1245	3.7	101
288	A modified gravitational search algorithm for slope stability analysis. *Engineering Applications of Artificial Intelligence*, **2012**, 25, 1589-1597	7.2	100
287	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	4.8	88
286	Application of soft computing based hybrid models in hydrological variables modeling: a comprehensive review. *Theoretical and Applied Climatology*, **2017**, 128, 875-903	3	86
285	Application of artificial neural networks for water quality prediction. *Neural Computing and Applications*, **2013**, 22, 187-201	4.8	85
284	Improving artificial intelligence models accuracy for monthly streamflow forecasting using grey Wolf optimization (GWO) algorithm. *Journal of Hydrology*, **2020**, 582, 124435	6	84
283	Performance of ANFIS versus MLP-NN dissolved oxygen prediction models in water quality monitoring. *Environmental Science and Pollution Research*, **2014**, 21, 1658-1670	5.1	76

282	Past, present and prospect of an Artificial Intelligence (AI) based model for sediment transport prediction. *Journal of Hydrology*, **2016**, 541, 902-913	6	75
281	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	2.9	67
280	RBFNN versus FFNN for daily river flow forecasting at Johor River, Malaysia. *Neural Computing and Applications*, **2016**, 27, 1533-1542	4.8	62
279	Optimizing dam and reservoirs operation based model utilizing shark algorithm approach. *Knowledge-Based Systems*, **2017**, 122, 26-38	7.3	61
278	Intelligent Systems in Optimizing Reservoir Operation Policy: A Review. *Water Resources Management*, **2013**, 27, 3387-3407	3.7	61
277	Reservoir-system simulation and optimization techniques. *Stochastic Environmental Research and Risk Assessment*, **2013**, 27, 1751-1772	3.5	60
276	Water quality prediction model utilizing integrated wavelet-ANFIS model with cross-validation. *Neural Computing and Applications*, **2012**, 21, 833-841	4.8	59
275	Optimizing neuro-fuzzy modules for data fusion of vehicular navigation systems using temporal cross-validation. *Engineering Applications of Artificial Intelligence*, **2007**, 20, 49-61	7.2	56
274	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	3.7	55
273	Modified particle swarm optimization for optimum design of spread footing and retaining wall. *Journal of Zhejiang University: Science A*, **2011**, 12, 415-427	2.1	54
272	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	3.7	53
271	The state-of-the-art system dynamics application in integrated water resources modeling. *Journal of Environmental Management*, **2018**, 227, 294-304	7.9	52
270	Non-tuned machine learning approach for hydrological time series forecasting. *Neural Computing and Applications*, **2018**, 30, 1479-1491	4.8	51
269	Ultrasonic health monitoring in structural engineering: buildings and bridges. *Structural Control and Health Monitoring*, **2016**, 23, 409-422	4.5	51
268	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. *Journal of Hydroinformatics*, **2018**, 20, 332-355	2.6	47
267	Wavelet based hybrid ANN-ARIMA models for meteorological drought forecasting. *Journal of Hydrology*, **2020**, 590, 125380	6	47
266	Estimation the Physical Variables of Rainwater Harvesting System Using Integrated GIS-Based Remote Sensing Approach. *Water Resources Management*, **2016**, 30, 3299-3313	3.7	47
265	Improving Rainfall Forecasting Efficiency Using Modified Adaptive Neuro-Fuzzy Inference System (MANFIS). *Water Resources Management*, **2013**, 27, 3507-3523	3.7	46

264	Adaptive neuro-fuzzy inference system coupled with shuffled frog leaping algorithm for predicting river streamflow time series. *Hydrological Sciences Journal*, **2020**, 65, 1738-1751	3.5	45
263	Rainfall-runoff modelling using improved machine learning methods: Harris hawks optimizer vs. particle swarm optimization. *Journal of Hydrology*, **2020**, 589, 125133	6	43
262	Water Quality Prediction Model Based Support Vector Machine Model for Ungauged River Catchment under Dual Scenarios. *Water (Switzerland)*, **2019**, 11, 1231	3	43
261	Dynamic versus static neural network model for rainfall forecasting at Klang River Basin, Malaysia. *Hydrology and Earth System Sciences*, **2012**, 16, 1151-1169	5.5	43
260	Towards a time and cost effective approach to water quality index class prediction. *Journal of Hydrology*, **2019**, 575, 148-165	6	42
259	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	3	42
258	Nanofiltration membrane modification by UV grafting for salt rejection and fouling resistance improvement for brackish water desalination. *Desalination*, **2012**, 295, 16-25	10.3	39
257	A hybrid bat-swarm algorithm for optimizing dam and reservoir operation. *Neural Computing and Applications*, **2019**, 31, 8807-8821	4.8	39
256	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. *Scientific Reports*, **2020**, 10, 4684	4.9	38
255	Extreme gradient boosting (Xgboost) model to predict the groundwater levels in Selangor Malaysia. *Ain Shams Engineering Journal*, **2021**, 12, 1545-1556	4.4	37
254	The influence of climatic inputs on stream-flow pattern forecasting: case study of Upper Senegal River. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	36
253	Prediction of Suspended Sediment Load Using Data-Driven Models. *Water (Switzerland)*, **2019**, 11, 2060	3	36
252	RBFNN-based model for heavy metal prediction for different climatic and pollution conditions. *Neural Computing and Applications*, **2017**, 28, 1991-2003	4.8	35
251	Rainfall forecasting model using machine learning methods: Case study Terengganu, Malaysia. *Ain Shams Engineering Journal*, **2021**, 12, 1651-1663	4.4	34
250	Optimized River Stream-Flow Forecasting Model Utilizing High-Order Response Surface Method. *Water Resources Management*, **2016**, 30, 3899-3914	3.7	33
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248	The Application of Artificial Bee Colony and Gravitational Search Algorithm in Reservoir Optimization. *Water Resources Management*, **2016**, 30, 2497-2516	3.7	33
247	Optimization of Chain-Reservoirs Operation with a New Approach in Artificial Intelligence. *Water Resources Management*, **2017**, 31, 2085-2104	3.7	32

246	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	32
245	State-of-the-Art for Modelling Reservoir Inflows and Management Optimization. *Water Resources Management*, **2015**, 29, 1267-1282	3.7	32
244	Utilizing RBF-NN and ANFIS Methods for Multi-Lead ahead Prediction Model of Evaporation from Reservoir. *Water Resources Management*, **2016**, 30, 4773-4788	3.7	32
243	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. *PLoS ONE*, **2019**, 14, e0217499	3.7	31
242	Suspended sediment load prediction using artificial neural network and ant lion optimization algorithm. *Environmental Science and Pollution Research*, **2020**, 27, 38094-38116	5.1	31
241	Review on applications of artificial intelligence methods for dam and reservoir-hydro-environment models. *Environmental Science and Pollution Research*, **2018**, 25, 13446-13469	5.1	31
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208	An evaluation of existent methods for estimation of embankment dam breach parameters. *Natural Hazards*, **2017**, 87, 545-566	3	21
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186	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	3	18
185	Evolutionary techniques versus swarm intelligences: application in reservoir release optimization. *Neural Computing and Applications*, **2014**, 24, 1583-1594	4.8	18
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179	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	2.2	17
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176	Reliability analysis of earth slopes using hybrid chaotic particle swarm optimization. *Journal of Central South University*, **2011**, 18, 1626-1637	2.1	16
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173	A comprehensive comparison of recent developed meta-heuristic algorithms for streamflow time series forecasting problem. *Applied Soft Computing Journal*, **2021**, 105, 107282	7.5	16
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167	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	4	14
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140	Operating a reservoir system based on the shark machine learning algorithm. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	11
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