

Mohammad Ehteram

List of Publications by Citations

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Version: 2024-04-23

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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.

66

papers

1,263

citations

21

h-index

30

g-index

70

ext. papers

1,834

ext. citations

4.3

avg, IF

5.33

L-index

#	Paper	IF	Citations
66	Machine learning methods for better water quality prediction. <i>Journal of Hydrology</i> , 2019 , 578, 124084	6	111
65	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. <i>Journal of Hydroinformatics</i> , 2018 , 20, 332-355	2.6	47
64	Modeling and Uncertainty Analysis of Groundwater Level Using Six Evolutionary Optimization Algorithms Hybridized with ANFIS, SVM, and ANN. <i>Sustainability</i> , 2020 , 12, 4023	3.6	44
63	Water Quality Prediction Model Based Support Vector Machine Model for Ungauged River Catchment under Dual Scenarios. <i>Water (Switzerland)</i> , 2019 , 11, 1231	3	43
62	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. <i>Water (Switzerland)</i> , 2018 , 10, 1124	3	42
61	A hybrid bat-swarm algorithm for optimizing dam and reservoir operation. <i>Neural Computing and Applications</i> , 2019 , 31, 8807-8821	4.8	39
60	Optimization of Chain-Reservoirs Operation with a New Approach in Artificial Intelligence. <i>Water Resources Management</i> , 2017 , 31, 2085-2104	3.7	32
59	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. <i>PLoS ONE</i> , 2019 , 14, e0217499	3.7	31
58	Suspended sediment load prediction using artificial neural network and ant lion optimization algorithm. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 38094-38116	5.1	31
57	Optimization of energy management and conversion in the multi-reservoir systems based on evolutionary algorithms. <i>Journal of Cleaner Production</i> , 2017 , 168, 1132-1142	10.3	31
56	Enhancement of Groundwater-Level Prediction Using an Integrated Machine Learning Model Optimized by Whale Algorithm. <i>Natural Resources Research</i> , 2020 , 29, 3233-3252	4.9	30
55	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
54	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	29
53	Estimation of total dissolved solids (TDS) using new hybrid machine learning models. <i>Journal of Hydrology</i> , 2020 , 587, 124989	6	28
52	Assessing the Predictability of an Improved ANFIS Model for Monthly Streamflow Using Lagged Climate Indices as Predictors. <i>Water (Switzerland)</i> , 2019 , 11, 1130	3	28
51	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	5.1	26
50	Reservoir Operation by a New Evolutionary Algorithm: Kidney Algorithm. <i>Water Resources Management</i> , 2018 , 32, 4681-4706	3.7	25

49	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. <i>PLoS ONE</i> , 2019 , 14, e0217634	3.7	24
48	Reducing Irrigation Deficiencies Based Optimizing Model for Multi-Reservoir Systems Utilizing Spider Monkey Algorithm. <i>Water Resources Management</i> , 2018 , 32, 2315-2334	3.7	24
47	Flood Routing in River Reaches Using a Three-Parameter Muskingum Model Coupled with an Improved Bat Algorithm. <i>Water (Switzerland)</i> , 2018 , 10, 1130	3	22
46	Open Channel Sluice Gate Scouring Parameters Prediction: Different Scenarios of Dimensional and Non-Dimensional Input Parameters. <i>Water (Switzerland)</i> , 2019 , 11, 353	3	21
45	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. <i>Water (Switzerland)</i> , 2018 , 10, 807	3	21
44	Uncertainties of instantaneous influent flow predictions by intelligence models hybridized with multi-objective shark smell optimization algorithm. <i>Journal of Hydrology</i> , 2020 , 587, 124977	6	21
43	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
42	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	3.6	20
41	Reservoir Optimization for Energy Production Using a New Evolutionary Algorithm Based on Multi-Criteria Decision-Making Models. <i>Water Resources Management</i> , 2018 , 32, 2539-2560	3.7	20
40	Fast convergence optimization model for single and multi-purposes reservoirs using hybrid algorithm. <i>Advanced Engineering Informatics</i> , 2017 , 32, 287-298	7.4	19
39	Synchronizing Artificial Intelligence Models for Operating the Dam and Reservoir System. <i>Water Resources Management</i> , 2018 , 32, 3373-3389	3.7	19
38	New Evolutionary Algorithm for Optimizing Hydropower Generation Considering Multi-reservoir Systems. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2280	2.6	19
37	Evaluation of contemporary evolutionary algorithms for optimization in reservoir operation and water supply 2018 , 67, 54-67		19
36	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	3.6	18
35	Optimization of energy management and conversion in the water systems based on evolutionary algorithms. <i>Neural Computing and Applications</i> , 2019 , 31, 5951-5964	4.8	18
34	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. <i>Sustainability</i> , 2019 , 11, 2337	3.6	16
33	Improved Krill Algorithm for Reservoir Operation. <i>Water Resources Management</i> , 2018 , 32, 3353-3372	3.7	16
32	Performance improvement for infiltration rate prediction using hybridized Adaptive Neuro-Fuzzy Inferences System (ANFIS) with optimization algorithms. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 1665-1676	4.4	16

31	Optimization of Reservoir Operation using New Hybrid Algorithm. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 4668-4680	1.9	14
30	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	2.6	14
29	Pipeline Scour Rates Prediction-Based Model Utilizing a Multilayer Perceptron-Colliding Body Algorithm. <i>Water (Switzerland)</i> , 2020 , 12, 902	3	14
28	Streamflow prediction with large climate indices using several hybrid multilayer perceptrons and copula Bayesian model averaging. <i>Ecological Indicators</i> , 2021 , 133, 108285	5.8	12
27	Suspended sediment load prediction based on soft computing models and Black Widow Optimization Algorithm using an enhanced gamma test. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 48253-48273	5.1	12
26	A robust integrated Bayesian multi-model uncertainty estimation framework (IBMUEF) for quantifying the uncertainty of hybrid meta-heuristic in global horizontal irradiation predictions. <i>Energy Conversion and Management</i> , 2021 , 241, 114292	10.6	12
25	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	4.6	12
24	Multi-Reservoir System Optimization Based on Hybrid Gravitational Algorithm to Minimize Water-Supply Deficiencies. <i>Water Resources Management</i> , 2019 , 33, 2741-2760	3.7	11
23	Operating a reservoir system based on the shark machine learning algorithm. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	11
22	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	11
21	Prediction of daily suspended sediment load (SSL) using new optimization algorithms and soft computing models. <i>Soft Computing</i> , 2021 , 25, 7609-7626	3.5	11
20	Crow Algorithm for Irrigation Management: A Case Study. <i>Water Resources Management</i> , 2020 , 34, 1021-1045	3.7	10
19	GLUE uncertainty analysis of hybrid models for predicting hourly soil temperature and application wavelet coherence analysis for correlation with meteorological variables. <i>Soft Computing</i> , 2021 , 25, 10723-10748	3.5	10
18	Irrigation Management Based on Reservoir Operation with an Improved Weed Algorithm. <i>Water (Switzerland)</i> , 2018 , 10, 1267	3	10
17	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	10.3	10
16	A new soft computing model for daily streamflow forecasting. <i>Stochastic Environmental Research and Risk Assessment</i> , 1	3.5	9
15	Toward Bridging Future Irrigation Deficits Utilizing the Shark Algorithm Integrated with a Climate Change Model. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3960	2.6	8
14	Multi-timescale drought prediction using new hybrid artificial neural network models. <i>Natural Hazards</i> , 2021 , 106, 2461-2478	3	8

13	Predicting evaporation with optimized artificial neural network using multi-objective salp swarm algorithm. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	7
12	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	4.4	6
11	A New Method for Flood Routing Utilizing Four-Parameter Nonlinear Muskingum and Shark Algorithm. <i>Water Resources Management</i> , 2019 , 33, 4879-4893	3.7	6
10	Improved prediction of daily pan evaporation using Bayesian Model Averaging and optimized Kernel Extreme Machine models in different climates. <i>Stochastic Environmental Research and Risk Assessment</i> ,	3.5	6
9	A hybrid novel SVM model for predicting CO emissions using Multiobjective Seagull Optimization. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 66171-66192	5.1	5
8	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	4.6	5
7	Exploring Bayesian model averaging with multiple ANNs for meteorological drought forecasts. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	4
6	Estimating the transient storage parameters for pollution modeling in small streams: a comparison of newly developed hybrid optimization algorithms. <i>Environmental Monitoring and Assessment</i> , 2021 , 193, 475	3.1	4
5	Combining autoregressive integrated moving average with Long Short-Term Memory neural network and optimisation algorithms for predicting ground water level. <i>Journal of Cleaner Production</i> , 2022 , 348, 131224	10.3	4
4	Solar radiation prediction using improved soft computing models for semi-arid, slightly-arid and humid climates. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 10631-10657	6.1	4
3	The copper grade estimation of porphyry deposits using machine learning algorithms and Henry gas solubility optimization. <i>Earth Science Informatics</i> ,1	2.5	3
2	Multi-objective Optimization Approaches for Design, Planning, and Management of Water Resource Systems. <i>Springer Water</i> , 2021 , 275-303	0.3	3
1	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	3.7	1