

# Hojat Karami

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,632  
citations

279798

23  
h-index

345221

36  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow Direction Algorithm (FDA): A Novel Optimization Approach for Solving Optimization Problems. Computers and Industrial Engineering, 2021, 156, 107224.	6.3	135
2	Prediction of Water Quality Parameters Using ANFIS Optimized by Intelligence Algorithms (Case Study:) Tj ETQq0 Q.0 rgBT /Overlock 10	1.9	79
3	Comparative evaluation of intelligent algorithms to improve adaptive neuro-fuzzy inference system performance in precipitation modelling. Journal of Hydrology, 2019, 571, 214-224.	5.4	78
4	A hybrid batâ€‘swarm algorithm for optimizing dam and reservoir operation. Neural Computing and Applications, 2019, 31, 8807-8821.	5.6	68
5	Uncertainty Analysis of Climate Change Impacts on Flood Frequency by Using Hybrid Machine Learning Methods. Water Resources Management, 2021, 35, 199-223.	3.9	68
6	Modeling river water quality parameters using modified adaptive neuro fuzzy inference system. Water Science and Engineering, 2019, 12, 45-54.	3.2	52
7	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. PLoS ONE, 2019, 14, e0217499.	2.5	51
8	Predicting discharge coefficient of triangular labyrinth weir using extreme learning machine, artificial neural network and genetic programming. Neural Computing and Applications, 2018, 29, 983-989.	5.6	44
9	Reservoir Operation by a New Evolutionary Algorithm: Kidney Algorithm. Water Resources Management, 2018, 32, 4681-4706.	3.9	42
10	Verification of numerical study of scour around spur dikes using experimental data. Water and Environment Journal, 2014, 28, 124-134.	2.2	41
11	Optimal Reservoir Operation Using Bat and Particle Swarm Algorithm and Game Theory Based on Optimal Water Allocation among Consumers. Water Resources Management, 2019, 33, 3071-3093.	3.9	39
12	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. PLoS ONE, 2019, 14, e0217634.	2.5	39
13	Optimization of Chain-Reservoirsâ€™ Operation with a New Approach in Artificial Intelligence. Water Resources Management, 2017, 31, 2085-2104.	3.9	38
14	Reducing Irrigation Deficiencies Based Optimizing Model for Multi-Reservoir Systems Utilizing Spider Monkey Algorithm. Water Resources Management, 2018, 32, 2315-2334.	3.9	38
15	Groundwater level prediction in arid areas using wavelet analysis and Gaussian process regression. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1147-1158.	3.1	36
16	Flood Routing in River Reaches Using a Three-Parameter Muskingum Model Coupled with an Improved Bat Algorithm. Water (Switzerland), 2018, 10, 1130.	2.7	34
17	Prediction of river flow using hybrid neuro-fuzzy models. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	32
18	Investigation of a New Hybrid Optimization Algorithm Performance in the Optimal Operation of Multi-Reservoir Benchmark Systems. Water Resources Management, 2019, 33, 4767-4782.	3.9	31

#	ARTICLE	IF	CITATIONS
19	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.	3.9	26
20	Bat algorithm for damâ€‘reservoir operation. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	25
21	Optimization of Reservoir Operation using New Hybrid Algorithm. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 4668-4680.	1.9	25
22	Improved Krill Algorithm for Reservoir Operation. <i>Water Resources Management</i> , 2018, 32, 3353-3372.	3.9	25
23	Design of water supply system from rivers using artificial intelligence to model water hammer. <i>ISH Journal of Hydraulic Engineering</i> , 2020, 26, 153-162.	2.1	25
24	Experimental and Numerical Investigation of the Effect of Different Shapes of Collars on the Reduction of Scour around a Single Bridge Pier. <i>PLoS ONE</i> , 2014, 9, e98592.	2.5	25
25	Novel approaches for air temperature prediction: A comparison of four hybrid evolutionary fuzzy models. <i>Meteorological Applications</i> , 2020, 27, e1817.	2.1	24
26	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. <i>Sustainability</i> , 2019, 11, 2337.	3.2	23
27	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
28	Comparison Between Soft Computing Methods for Prediction of Sediment Load in Rivers: Maku Dam Case Study. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 93-103.	1.9	22
29	Protective spur dike for scour mitigation of existing spur dikes. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 809-813.	1.7	21
30	Investigation of neural network and fuzzy inference neural network and their optimization using meta-algorithms in river flood routing. <i>Natural Hazards</i> , 2018, 94, 1057-1080.	3.4	21
31	A numerical and experimental investigation of the effects of combination of spur dikes in series on a flow field. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	20
32	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
33	Combination of Group Method of Data Handling (GMDH) and Computational Fluid Dynamics (CFD) for Prediction of Velocity in Channel Intake. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7521.	2.5	20
34	A hybrid constrained coral reefs optimization algorithm with machine learning for optimizing multi-reservoir systems operation. <i>Journal of Environmental Management</i> , 2021, 286, 112250.	7.8	19
35	Challenge of rainfall network design considering spatial versus spatiotemporal variations. <i>Journal of Hydrology</i> , 2019, 574, 990-1002.	5.4	18
36	Irrigation Management Based on Reservoir Operation with an Improved Weed Algorithm. <i>Water (Switzerland)</i> , 2018, 10, 1267.	2.7	17

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37	Hybrid model of support vector regression and fruitfly optimization algorithm for predicting ski-jump spillway scour geometry. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 272-291.	3.1	17
38	Approaches for Optimizing the Performance of Adaptive Neuro-Fuzzy Inference System and Least-Squares Support Vector Machine in Precipitation Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , 2021, 26, .	1.9	16
39	Using soft computing and machine learning algorithms to predict the discharge coefficient of curved labyrinth overflows. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1002-1015.	3.1	15
40	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
41	Crow Algorithm for Irrigation Management: A Case Study. <i>Water Resources Management</i> , 2020, 34, 1021-1045.	3.9	14
42	Experimental Investigation of Scour Reduction Around Spur Dikes by Collar Using Taguchi Method. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 971-983.	1.9	14
43	Scour and three-dimensional flow field measurement around short vertical-wall abutment protected by collar. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 141-152.	1.9	13
44	The effect of vermiculite and quartz in porous concrete on reducing storm-runoff pollution. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 144-152.	2.1	12
45	Investigation of RS and GIS techniques on MPSIAC model to estimate soil erosion. <i>Natural Hazards</i> , 2018, 91, 221-238.	3.4	11
46	A new hybrid framework based on integration of optimization algorithms and numerical method for estimating monthly groundwater level. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	11
47	Use of multi-criteria decision-making for selecting spillway type and optimizing dimensions by applying the harmony search algorithm: Qeshlagh Dam Case Study. <i>Lakes and Reservoirs: Research and Management</i> , 2019, 24, 66-75.	0.9	10
48	Application of Talc as an Eco-Friendly Additive to Improve the Structural Behavior of Porous Concrete. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 443-453.	1.9	10
49	Forecasting Daily and Monthly Reference Evapotranspiration in the Aidoghmouth Basin Using Multilayer Perceptron Coupled with Water Wave Optimization. <i>Complexity</i> , 2021, 2021, 1-12.	1.6	10
50	Analysis of hydrological drought characteristics using copula function approach. <i>Paddy and Water Environment</i> , 2018, 16, 153-161.	1.8	9
51	Properties of metakaolin-based green pervious concrete cured in cold and normal weather conditions. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 2074-2087.	2.1	9
52	Modeling sediment transport around a rectangular bridge abutment. <i>Environmental Fluid Mechanics</i> , 2015, 15, 1105-1114.	1.6	8
53	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
54	Two Comprehensive and Practical Methods for Simulating Pan Evaporation under Different Climatic Conditions in Iran. <i>Water (Switzerland)</i> , 2021, 13, 2814.	2.7	8

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55	Effects of Width Ratios and Deviation Angles on the Mean Velocity in Inlet Channels Using Numerical Modeling and Artificial Neural Network Modeling. International Journal of Civil Engineering, 2017, 15, 149-161.	2.0	7
56	Revisited rainfall network design: evaluation of heuristic versus entropy theory methods. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	7
57	Treatment of domestic wastewater using the combination of porous concrete and phytoremediation for irrigation. Paddy and Water Environment, 2020, 18, 729-742.	1.8	7
58	Generation of Clean Hydropower Energy in Multi-Reservoir Systems Based on a New Evolutionary Algorithm. Water Resources Management, 2020, 34, 1247-1264.	3.9	7
59	Flood routing by Kidney algorithm and Muskingum model. Natural Hazards, 2018, , 1.	3.4	5
60	Forecasting the discharge capacity of inflatable rubber dams using hybrid machine learning models. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1761-1774.	3.1	5
61	Experimental and numerical investigation on effect of trash rack on flow properties at power intakes. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e202000017.	1.6	4
62	Nested Augmentation of Rainfall Monitoring Network: Proposing a Hybrid Implementation of Block Kriging and Entropy Theory. Water Resources Management, 2021, 35, 4665-4680.	3.9	4
63	Introducing affordable and accessible physical covers to reduce evaporation from agricultural water reservoirs and pools (field study, statistics, and intelligent methods). Arabian Journal of Geosciences, 2021, 14, 1.	1.3	4
64	Application of Numerical Modeling to Assess Geometry Effect of Racks on Performance of Bottom Intakes. Arabian Journal for Science and Engineering, 2015, 40, 677-684.	1.1	1
65	Prediction of scour pattern around hydraulic structures using geostatistical methods. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	0