Saeed Farzin

List of Publications by Year
in descending order

63 papers	1,942 citations	236833 25 h-index	289141 40 g-index
64 all docs	64 docs citations	64 times ranked	1290 citing authors

#	Article	IF	Citations
1	Mechanical properties of the concrete containing recycled fibers and aggregates. Construction and Building Materials, 2017, 144, 392-398.	3.2	155
2	Flow Direction Algorithm (FDA): A Novel Optimization Approach for Solving Optimization Problems. Computers and Industrial Engineering, 2021, 156, 107224.	3.4	135
3	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. Journal of Hydroinformatics, 2018, 20, 332-355.	1.1	84
4	Prediction of Water Quality Parameters Using ANFIS Optimized by Intelligence Algorithms (Case Study:) Tj ETQq0 0.0 rgBT /Overlock 10	0.9	79
5	Comparative evaluation of intelligent algorithms to improve adaptive neuro-fuzzy inference system performance in precipitation modelling. Journal of Hydrology, 2019, 571, 214-224.	2.3	78
6	A hybrid bat–swarm algorithm for optimizing dam and reservoir operation. Neural Computing and Applications, 2019, 31, 8807-8821.	3.2	68
7	Uncertainty Analysis of Climate Change Impacts on Flood Frequency by Using Hybrid Machine Learning Methods. Water Resources Management, 2021, 35, 199-223.	1.9	68
8	Modeling Groundwater Quality Parameters Using Hybrid Neuro-Fuzzy Methods. Water Resources Management, 2019, 33, 847-861.	1.9	64
9	Modeling river water quality parameters using modified adaptive neuro fuzzy inference system. Water Science and Engineering, 2019, 12, 45-54.	1.4	52
10	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. PLoS ONE, 2019, 14, e0217499.	1.1	51
11	A New Methodology for Reference Evapotranspiration Prediction and Uncertainty Analysis under Climate Change Conditions Based on Machine Learning, Multi Criteria Decision Making and Monte Carlo Methods. Sustainability, 2022, 14, 2601.	1.6	43
12	Introducing a framework for modeling of drug electrochemical removal from wastewater based on data mining algorithms, scatter interpolation method, and multi criteria decision analysis (DID). Journal of Cleaner Production, 2020, 266, 122075.	4.6	41
13	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. PLoS ONE, 2019, 14, e0217634.	1.1	39
14	Optimization of Chain-Reservoirs' Operation with a New Approach in Artificial Intelligence. Water Resources Management, 2017, 31, 2085-2104.	1.9	38
15	Reducing Irrigation Deficiencies Based Optimizing Model for Multi-Reservoir Systems Utilizing Spider Monkey Algorithm. Water Resources Management, 2018, 32, 2315-2334.	1.9	38
16	Optimization of energy management and conversion in the multi-reservoir systems based on evolutionary algorithms. Journal of Cleaner Production, 2017, 168, 1132-1142.	4.6	37
17	A Novel LSSVM Model Integrated with GBO Algorithm to Assessment of Water Quality Parameters. Water Resources Management, 2021, 35, 3939-3968.	1.9	36
18	Flood Routing in River Reaches Using a Three-Parameter Muskingum Model Coupled with an Improved Bat Algorithm. Water (Switzerland), 2018, 10, 1130.	1.2	34

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19	Effect of zeolite and pumice powders on the environmental and physical characteristics of green concrete filters. Construction and Building Materials, 2020, 240, 117931.	3.2	33
20	Prediction of river flow using hybrid neuro-fuzzy models. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	32
21	Investigation of a New Hybrid Optimization Algorithm Performance in the Optimal Operation of Multi-Reservoir Benchmark Systems. Water Resources Management, 2019, 33, 4767-4782.	1.9	31
22	Modeling and predicting suspended sediment load under climate change conditions: a new hybridization strategy. Journal of Water and Climate Change, 2021, 12, 2422-2443.	1.2	28
23	Simulation of flow pattern at rectangular lateral intake with different dike and submerged vane scenarios. Water Science and Engineering, 2017, 10, 246-255.	1.4	27
24	Reservoir Optimization for Energy Production Using a New Evolutionary Algorithm Based on Multi-Criteria Decision-Making Models. Water Resources Management, 2018, 32, 2539-2560.	1.9	26
25	Evaluation of contemporary evolutionary algorithms for optimization in reservoir operation and water supply. Journal of Water Supply: Research and Technology - AQUA, 2018, 67, 54-67.	0.6	26
26	Bat algorithm for dam–"reservoir operation. Environmental Earth Sciences, 2018, 77, 1.	1.3	25
27	Optimization of Reservoir Operation using New Hybrid Algorithm. KSCE Journal of Civil Engineering, 2018, 22, 4668-4680.	0.9	25
28	Improved Krill Algorithm for Reservoir Operation. Water Resources Management, 2018, 32, 3353-3372.	1.9	25
29	Design of water supply system from rivers using artificial intelligence to model water hammer. ISH Journal of Hydraulic Engineering, 2020, 26, 153-162.	1.1	25
30	Meteorological drought analysis in response to climate change conditions, based on combined four-dimensional vine copulas and data mining (VC-DM). Journal of Hydrology, 2021, 603, 127135.	2.3	25
31	Predicting discharge coefficient of triangular labyrinth weir using Support Vector Regression, Support Vector Regression-firefly, Response Surface Methodology and Principal Component Analysis. Flow Measurement and Instrumentation, 2017, 55, 75-81.	1.0	24
32	Novel approaches for air temperature prediction: A comparison of four hybrid evolutionary fuzzy models. Meteorological Applications, 2020, 27, e1817.	0.9	24
33	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. Sustainability, 2019, 11, 2337.	1.6	23
34	Hybrid Bat & Particle Swarm Algorithm for optimization of labyrinth spillway based on half & quarter round crest shapes. Flow Measurement and Instrumentation, 2019, 66, 209-217.	1.0	23
35	Optimization of energy management and conversion in the water systems based on evolutionary algorithms. Neural Computing and Applications, 2019, 31, 5951-5964.	3.2	23
36	A numerical and experimental investigation of the effects of combination of spur dikes in series on a flow field. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	20

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37	Multi-Reservoir System Optimization Based on Hybrid Gravitational Algorithm to Minimize Water-Supply Deficiencies. Water Resources Management, 2019, 33, 2741-2760.	1.9	20
38	Municipal Wastewater pretreatment using porous concrete containing fine-grained mineral adsorbents. Journal of Water Process Engineering, 2020, 36, 101346.	2.6	19
39	Optimal construction of an open channel by considering different conditions and uncertainty: application of evolutionary methods. Engineering Optimization, 2021, 53, 1173-1191.	1.5	19
40	Prediction of groundwater table and drought analysis; a new hybridization strategy based on bi-directional long short-term model and the Harris hawk optimization algorithm. Journal of Water and Climate Change, 2022, 13, 2233-2254.	1.2	19
41	A New Framework for Evaluation of Rainfall Temporal Variability through Principal Component Analysis, Hybrid Adaptive Neuro-Fuzzy Inference System, and Innovative Trend Analysis Methodology. Water Resources Management, 2020, 34, 3363-3385.	1.9	18
42	A Novel Framework Based on the Stacking Ensemble Machine Learning (SEML) Method: Application in Wind Speed Modeling. Atmosphere, 2022, 13, 758.	1.0	18
43	Smoothed particle hydrodynamics for the interaction of Newtonian and non-Newtonian fluids using the μ(I) model. Powder Technology, 2019, 351, 325-337.	2.1	17
44	Position explicit and iterative implicit consistent incompressible SPH methods for free surface flow. Computers and Fluids, 2019, 179, 52-66.	1.3	16
45	Approaches for Optimizing the Performance of Adaptive Neuro-Fuzzy Inference System and Least-Squares Support Vector Machine in Precipitation Modeling. Journal of Hydrologic Engineering - ASCE, 2021, 26, .	0.8	16
46	A New Method for Flood Routing Utilizing Four-Parameter Nonlinear Muskingum and Shark Algorithm. Water Resources Management, 2019, 33, 4879-4893.	1.9	14
47	Crow Algorithm for Irrigation Management: A Case Study. Water Resources Management, 2020, 34, 1021-1045.	1.9	14
48	Introducing a Novel Hybrid Machine Learning Model and Developing its Performance in Estimating Water Quality Parameters. Water Resources Management, 2022, 36, 3901-3927.	1.9	14
49	Experimental Investigation of the Effect of Adding LECA and Pumice on Some Physical Properties of Porous Concrete. Engineering Journal, 2018, 22, 205-213.	0.5	13
50	Optimization of dam's spillway design under climate change conditions. Journal of Hydroinformatics, 2020, 22, 916-936.	1.1	12
51	The effect of vermiculite and quartz in porous concrete on reducing storm-runoff pollution. ISH Journal of Hydraulic Engineering, 2021, 27, 144-152.	1.1	12
52	Developing a model for multi-objective optimization of open channels and labyrinth weirs: Theory and application in Isfahan Irrigation Networks. Flow Measurement and Instrumentation, 2021, 80, 101971.	1.0	12
53	Investigation of RS and GIS techniques on MPSIAC model to estimate soil erosion. Natural Hazards, 2018, 91, 221-238.	1.6	11
54	Application of Talc as an Eco-Friendly Additive to Improve the Structural Behavior of Porous Concrete. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 443-453.	1.0	10

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55	Forecasting Daily and Monthly Reference Evapotranspiration in the Aidoghmoush Basin Using Multilayer Perceptron Coupled with Water Wave Optimization. Complexity, 2021, 2021, 1-12.	0.9	10
56	Effects of adding mineral adsorbents to porous concrete for enhancing the quality performance of urban runoff systems. World Journal of Engineering, 2018, 15, 489-497.	1.0	9
57	Properties of metakaolin-based green pervious concrete cured in cold and normal weather conditions. European Journal of Environmental and Civil Engineering, 2022, 26, 2074-2087.	1.0	9
58	Toward Bridging Future Irrigation Deficits Utilizing the Shark Algorithm Integrated with a Climate Change Model. Applied Sciences (Switzerland), 2019, 9, 3960.	1.3	8
59	A new framework for missing data estimation and reconstruction based on the geographical input information, data mining, and multi-criteria decision-making; theory and application in missing groundwater data of Damghan Plain, Iran. Groundwater for Sustainable Development, 2022, 17, 100767.	2.3	8
60	Flood routing by Kidney algorithm and Muskingum model. Natural Hazards, 2018, , 1.	1.6	5
61	Performance assessment of modified clinoptilolite and magnetic nanotubes on sulfate removal and potential application in natural river samples. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2020, 97, 51-63.	0.9	4
62	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.	0.6	4
63	A new combination approach for optimal design of sedimentation tanks based on hydrodynamic simulation model and machine learning algorithms. Physics and Chemistry of the Earth, 2022, 127, 103201.	1.2	4