

Iman Ahmadianfar

List of Publications by Year in Descending Order

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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.

44
papers

903
citations

17
h-index

29
g-index

46
ext. papers

1,694
ext. citations

4.4
avg, IF

5.84
L-index

#	Paper	IF	Citations
44	INFO: An efficient optimization algorithm based on weighted mean of vectors. <i>Expert Systems With Applications</i> , 2022 , 195, 116516	7.8	36
43	Assessment of scouring around spur dike in cohesive sediment mixtures: A comparative study on three rigorous machine learning models. <i>Journal of Hydrology</i> , 2022 , 606, 127330	6	6
42	Surface water sodium (Na) concentration prediction using hybrid weighted exponential regression model with gradient-based optimization.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
41	Static models for implementing photovoltaic panels characteristics under various environmental conditions using improved gradient-based optimizer. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102150	4.7	0
40	Discharge coefficient prediction of canal radial gate using neurocomputing models: an investigation of free and submerged flow scenarios. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022 , 16, 1-19	4.5	2
39	An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction.. <i>Scientific Reports</i> , 2022 , 12, 4934	4.9	0
38	Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization. <i>Knowledge-Based Systems</i> , 2022 , 250, 109048	7.3	0
37	Data Mining Methods for Modeling in Water Science. <i>Studies in Computational Intelligence</i> , 2022 , 157-178.8		
36	Optimization Algorithms Surpassing Metaphor. <i>Studies in Computational Intelligence</i> , 2022 , 3-33	0.8	
35	An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. <i>Energy Reports</i> , 2021 , 7, 7854-7877	4.6	6
34	Toward the accurate estimation of elliptical side orifice discharge coefficient applying two rigorous kernel-based data-intelligence paradigms. <i>Scientific Reports</i> , 2021 , 11, 19784	4.9	3
33	On the specific heat capacity estimation of metal oxide-based nanofluid for energy perspective [A comprehensive assessment of data analysis techniques. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 123, 105217	5.8	32
32	On the Thermal Conductivity Assessment of Oil-Based Hybrid Nanofluids using Extended Kalman Filter integrated with feed-forward neural network. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 172, 121159	4.9	19
31	Optimizing operating rules for multi-reservoir hydropower generation systems: An adaptive hybrid differential evolution algorithm. <i>Renewable Energy</i> , 2021 , 167, 774-790	8.1	21
30	On the assessment of specific heat capacity of nanofluids for solar energy applications: Application of Gaussian process regression (GPR) approach. <i>Journal of Energy Storage</i> , 2021 , 33, 102067	7.8	24
29	Estimation of triangular side orifice discharge coefficient under a free flow condition using data-driven models. <i>Flow Measurement and Instrumentation</i> , 2021 , 77, 101878	2.2	11
28	Prediction of local scour around circular piles under waves using a novel artificial intelligence approach. <i>Marine Georesources and Geotechnology</i> , 2021 , 39, 44-55	2.2	12

27	Multi-mechanism ensemble interior search algorithm to derive optimal hedging rule curves in multi-reservoir systems. <i>Journal of Hydrology</i> , 2021 , 598, 126211	6	6
26	Specific heat capacity of molten salt-based nanofluids in solar thermal applications: A paradigm of two modern ensemble machine learning methods. <i>Journal of Molecular Liquids</i> , 2021 , 335, 116434	6	12
25	Robust Diversity-based Sine-Cosine Algorithm for Optimizing Hydropower Multi-reservoir Systems. <i>Water Resources Management</i> , 2021 , 35, 3513-3538	3.7	3
24	Prediction of flyrock induced by mine blasting using a novel kernel-based extreme learning machine. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021 , 13, 1438-1438	5.3	7
23	Prediction of Maximum Scour Depth near Spur Dikes in Uniform Bed Sediment Using Stacked Generalization Ensemble Tree-Based Frameworks. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2021 , 147, 04021050	1.1	16
22	RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. <i>Expert Systems With Applications</i> , 2021 , 181, 115079	7.8	135
21	Gradient-based optimization with ranking mechanisms for parameter identification of photovoltaic systems. <i>Energy Reports</i> , 2021 , 7, 3979-3997	4.6	19
20	The assessment of emerging data-intelligence technologies for modeling Mg and SO surface water quality. <i>Journal of Environmental Management</i> , 2021 , 300, 113774	7.9	3
19	A rigorous model for prediction of viscosity of oil-based hybrid nanofluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 556, 124827	3.3	23
18	Gradient-based optimizer: A new metaheuristic optimization algorithm. <i>Information Sciences</i> , 2020 , 540, 131-159	7.7	192
17	Accurate prediction of thermal conductivity of ethylene glycol-based hybrid nanofluids using artificial intelligence techniques. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104624	5.8	23
16	Assessment of the hedging policy on reservoir operation for future drought conditions under climate change. <i>Climatic Change</i> , 2020 , 159, 253-268	4.5	8
15	Prediction of nanofluids viscosity using random forest (RF) approach. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 201, 104010	3.8	33
14	Nanofluids thermal conductivity prediction applying a novel hybrid data-driven model validated using Monte Carlo-based sensitivity analysis. <i>Engineering With Computers</i> , 2020 , 1	4.5	9
13	A meticulous intelligent approach to predict thermal conductivity ratio of hybrid nanofluids for heat transfer applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 611	4.1	10
12	Prediction of surface water total dissolved solids using hybridized wavelet-multigene genetic programming: New approach. <i>Journal of Hydrology</i> , 2020 , 589, 125335	6	35
11	Prediction of scour depth at piers with debris accumulation effects using linear genetic programming. <i>Marine Georesources and Geotechnology</i> , 2020 , 38, 468-479	2.2	21
10	A novel Hybrid Wavelet-Locally Weighted Linear Regression (W-LWLR) Model for Electrical Conductivity (EC) Prediction in Surface Water. <i>Journal of Contaminant Hydrology</i> , 2020 , 232, 103641	3.9	28

9	Developing optimal policies for reservoir systems using a multi-strategy optimization algorithm. <i>Applied Soft Computing Journal</i> , 2019 , 80, 888-903	7.5	22
8	Optimizing Multiple Linear Rules for Multi-Reservoir Hydropower Systems Using an Optimization Method with an Adaptation Strategy. <i>Water Resources Management</i> , 2019 , 33, 4265-4286	3.7	11
7	Gradient Evolution Optimization Algorithm to Optimize Reservoir Operation Systems. <i>Water Resources Management</i> , 2019 , 33, 603-625	3.7	17
6	Maximizing the Firm Energy Yield Preserving Total Energy Generation Via an Optimal Reservoir Operation. <i>Water Resources Management</i> , 2018 , 32, 141-154	3.7	8
5	Optimization of multi-reservoir operation with a new hedging rule: application of fuzzy set theory and NSGA-II. <i>Applied Water Science</i> , 2017 , 7, 3075-3086	5	14
4	Extracting Optimal Policies of Hydropower Multi-Reservoir Systems Utilizing Enhanced Differential Evolution Algorithm. <i>Water Resources Management</i> , 2017 , 31, 4375-4397	3.7	19
3	Optimizing Multi-reservoir Operation: Hybrid of Bat Algorithm and Differential Evolution. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 05015010	2.8	37
2	Optimization of Fuzzified Hedging Rules for Multipurpose and Multi-reservoir Systems. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016 , 21, 05016003	1.8	15
1	Adaptive slime mould algorithm for optimal design of photovoltaic models. <i>Energy Science and Engineering</i> ,	3.4	4