

# Iman Ahmadianfar

## List of Publications by Citations

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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 | Gradient-based optimizer: A new metaheuristic optimization algorithm. <i>Information Sciences</i> , <b>2020</b> , 540, 131-159  | 7.7 | 192       |
| 43 | RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. <i>Expert Systems With Applications</i> , <b>2021</b> , 181, 115079   | 7.8 | 135       |
| 42 | Optimizing Multireservoir Operation: Hybrid of Bat Algorithm and Differential Evolution. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2016</b> , 142, 05015010   | 2.8 | 37        |
| 41 | INFO: An efficient optimization algorithm based on weighted mean of vectors. <i>Expert Systems With Applications</i> , <b>2022</b> , 195, 116516  | 7.8 | 36        |
| 40 | Prediction of surface water total dissolved solids using hybridized wavelet-multigene genetic programming: New approach. <i>Journal of Hydrology</i> , <b>2020</b> , 589, 125335  | 6   | 35        |
| 39 | Prediction of nanofluids viscosity using random forest (RF) approach. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2020</b> , 201, 104010  | 3.8 | 33        |
| 38 | 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> , <b>2021</b> , 123, 105217 | 5.8 | 32        |
| 37 | 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> , <b>2020</b> , 232, 103641  | 3.9 | 28        |
| 36 | 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> , <b>2021</b> , 33, 102067                                   | 7.8 | 24        |
| 35 | A rigorous model for prediction of viscosity of oil-based hybrid nanofluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 556, 124827   | 3.3 | 23        |
| 34 | Accurate prediction of thermal conductivity of ethylene glycol-based hybrid nanofluids using artificial intelligence techniques. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 116, 104624                        | 5.8 | 23        |
| 33 | Developing optimal policies for reservoir systems using a multi-strategy optimization algorithm. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 80, 888-903  | 7.5 | 22        |
| 32 | Prediction of scour depth at piers with debris accumulation effects using linear genetic programming. <i>Marine Georesources and Geotechnology</i> , <b>2020</b> , 38, 468-479  | 2.2 | 21        |
| 31 | Optimizing operating rules for multi-reservoir hydropower generation systems: An adaptive hybrid differential evolution algorithm. <i>Renewable Energy</i> , <b>2021</b> , 167, 774-790   | 8.1 | 21        |
| 30 | Extracting Optimal Policies of Hydropower Multi-Reservoir Systems Utilizing Enhanced Differential Evolution Algorithm. <i>Water Resources Management</i> , <b>2017</b> , 31, 4375-4397  | 3.7 | 19        |
| 29 | 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> , <b>2021</b> , 172, 121159                | 4.9 | 19        |
| 28 | Gradient-based optimization with ranking mechanisms for parameter identification of photovoltaic systems. <i>Energy Reports</i> , <b>2021</b> , 7, 3979-3997  | 4.6 | 19        |

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| 27 | Gradient Evolution Optimization Algorithm to Optimize Reservoir Operation Systems. <i>Water Resources Management</i> , <b>2019</b> , 33, 603-625  | 3.7 | 17 |
| 26 | 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> , <b>2021</b> , 147, 04021050 | 1.1 | 16 |
| 25 | Optimization of Fuzzified Hedging Rules for Multipurpose and Multi-reservoir Systems. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2016</b> , 21, 05016003  | 1.8 | 15 |
| 24 | Optimization of multi-reservoir operation with a new hedging rule: application of fuzzy set theory and NSGA-II. <i>Applied Water Science</i> , <b>2017</b> , 7, 3075-3086   | 5   | 14 |
| 23 | Prediction of local scour around circular piles under waves using a novel artificial intelligence approach. <i>Marine Georesources and Geotechnology</i> , <b>2021</b> , 39, 44-55  | 2.2 | 12 |
| 22 | 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> , <b>2021</b> , 335, 116434                 | 6   | 12 |
| 21 | Optimizing Multiple Linear Rules for Multi-Reservoir Hydropower Systems Using an Optimization Method with an Adaptation Strategy. <i>Water Resources Management</i> , <b>2019</b> , 33, 4265-4286                                 | 3.7 | 11 |
| 20 | Estimation of triangular side orifice discharge coefficient under a free flow condition using data-driven models. <i>Flow Measurement and Instrumentation</i> , <b>2021</b> , 77, 101878  | 2.2 | 11 |
| 19 | A meticulous intelligent approach to predict thermal conductivity ratio of hybrid nanofluids for heat transfer applications. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 146, 611                          | 4.1 | 10 |
| 18 | Nanofluids thermal conductivity prediction applying a novel hybrid data-driven model validated using Monte Carlo-based sensitivity analysis. <i>Engineering With Computers</i> , <b>2020</b> , 1                                  | 4.5 | 9  |
| 17 | Assessment of the hedging policy on reservoir operation for future drought conditions under climate change. <i>Climatic Change</i> , <b>2020</b> , 159, 253-268   | 4.5 | 8  |
| 16 | Maximizing the Firm Energy Yield Preserving Total Energy Generation Via an Optimal Reservoir Operation. <i>Water Resources Management</i> , <b>2018</b> , 32, 141-154   | 3.7 | 8  |
| 15 | Prediction of flyrock induced by mine blasting using a novel kernel-based extreme learning machine. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , <b>2021</b> , 13, 1438-1438                                   | 5.3 | 7  |
| 14 | An accelerated gradient-based optimization development for multi-reservoir hydropower systems optimization. <i>Energy Reports</i> , <b>2021</b> , 7, 7854-7877  | 4.6 | 6  |
| 13 | Assessment of scouring around spur dike in cohesive sediment mixtures: A comparative study on three rigorous machine learning models. <i>Journal of Hydrology</i> , <b>2022</b> , 606, 127330                                     | 6   | 6  |
| 12 | Multi-mechanism ensemble interior search algorithm to derive optimal hedging rule curves in multi-reservoir systems. <i>Journal of Hydrology</i> , <b>2021</b> , 598, 126211  | 6   | 6  |
| 11 | Adaptive slime mould algorithm for optimal design of photovoltaic models. <i>Energy Science and Engineering</i> ,   | 3.4 | 4  |
| 10 | Toward the accurate estimation of elliptical side orifice discharge coefficient applying two rigorous kernel-based data-intelligence paradigms. <i>Scientific Reports</i> , <b>2021</b> , 11, 19784                               | 4.9 | 3  |

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| 9 | Robust Diversity-based Sine-Cosine Algorithm for Optimizing Hydropower Multi-reservoir Systems. <i>Water Resources Management</i> , <b>2021</b> , 35, 3513-3538  | 3.7 | 3 |
| 8 | The assessment of emerging data-intelligence technologies for modeling Mg and SO surface water quality. <i>Journal of Environmental Management</i> , <b>2021</b> , 300, 113774   | 7.9 | 3 |
| 7 | 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> , <b>2022</b> , 16, 1-19  | 4.5 | 2 |
| 6 | Surface water sodium (Na) concentration prediction using hybrid weighted exponential regression model with gradient-based optimization.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1                       | 5.1 | 1 |
| 5 | Static models for implementing photovoltaic panels characteristics under various environmental conditions using improved gradient-based optimizer. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102150 | 4.7 | 0 |
| 4 | An improved adaptive neuro fuzzy inference system model using conjoined metaheuristic algorithms for electrical conductivity prediction.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4934   | 4.9 | 0 |
| 3 | Multi-strategy Slime Mould Algorithm for hydropower multi-reservoir systems optimization. <i>Knowledge-Based Systems</i> , <b>2022</b> , 250, 109048   | 7.3 | 0 |
| 2 | Data Mining Methods for Modeling in Water Science. <i>Studies in Computational Intelligence</i> , <b>2022</b> , 157-178.8  |     |   |
| 1 | Optimization Algorithms Surpassing Metaphor. <i>Studies in Computational Intelligence</i> , <b>2022</b> , 3-33   | 0.8 |   |