Mehdi Jamei

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7587008/publications.pdf

Version: 2024-02-01

49	1,411	304701	361001
papers	citations	22 h-index	35 g-index

49	49	49	505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Groundwater level prediction using machine learning models: A comprehensive review. Neurocomputing, 2022, 489, 271-308.	5.9	115
2	Prediction of nanofluids viscosity using random forest (RF) approach. Chemometrics and Intelligent Laboratory Systems, 2020, 201, 104010.	3.5	80
3	Prediction of surface water total dissolved solids using hybridized wavelet-multigene genetic programming: New approach. Journal of Hydrology, 2020, 589, 125335.	5.4	67
4	On the assessment of specific heat capacity of nanofluids for solar energy applications: Application of Gaussian process regression (GPR) approach. Journal of Energy Storage, 2021, 33, 102067.	8.1	61
5	Thermophysical properties of water, water and ethylene glycol mixture-based nanodiamondÂ+ÂFe3O4 hybrid nanofluids: An experimental assessment and application of data-driven approaches. Journal of Molecular Liquids, 2022, 347, 117944.	4.9	58
6	A novel Hybrid Wavelet-Locally Weighted Linear Regression (W-LWLR) Model for Electrical Conductivity (EC) Prediction in Surface Water. Journal of Contaminant Hydrology, 2020, 232, 103641.	3.3	53
7	Simulation of seepage flow through embankment dam by using a novel extended Kalman filter based neural network paradigm: Case study of Fontaine Gazelles Dam, Algeria. Measurement: Journal of the International Measurement Confederation, 2021, 176, 109219.	5.0	52
8	On the Thermal Conductivity Assessment of Oil-Based Hybrid Nanofluids using Extended Kalman Filter integrated with feed-forward neural network. International Journal of Heat and Mass Transfer, 2021, 172, 121159.	4.8	52
9	On the specific heat capacity estimation of metal oxide-based nanofluid for energy perspective â€“ A comprehensive assessment of data analysis techniques. International Communications in Heat and Mass Transfer, 2021, 123, 105217.	5.6	51
10	Specific heat capacity of molten salt-based nanofluids in solar thermal applications: A paradigm of two modern ensemble machine learning methods. Journal of Molecular Liquids, 2021, 335, 116434.	4.9	44
11	Prediction of flyrock induced by mine blasting using a novel kernel-based extreme learning machine. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 1438-1451.	8.1	41
12	Application of a modern multi-level ensemble approach for the estimation of critical shear stress in cohesive sediment mixture. Journal of Hydrology, 2022, 607, 127549.	5.4	41
13	Accurate prediction of thermal conductivity of ethylene glycol-based hybrid nanofluids using artificial intelligence techniques. International Communications in Heat and Mass Transfer, 2020, 116, 104624.	5.6	38
14	Prediction of Maximum Scour Depth near Spur Dikes in Uniform Bed Sediment Using Stacked Generalization Ensemble Tree-Based Frameworks. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, .	1.0	38
15	Estimating the density of hybrid nanofluids for thermal energy application: Application of non-parametric and evolutionary polynomial regression data-intelligent techniques. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110524.	5.0	37
16	A rigorous model for prediction of viscosity of oil-based hybrid nanofluids. Physica A: Statistical Mechanics and Its Applications, 2020, 556, 124827.	2.6	36
17	Sunshine duration measurements and predictions in Saharan Algeria region: an improved ensemble learning approach. Theoretical and Applied Climatology, 2022, 147, 1015-1031.	2.8	32
18	Assessment of scouring around spur dike in cohesive sediment mixtures: A comparative study on three rigorous machine learning models. Journal of Hydrology, 2022, 606, 127330.	5.4	30

#	Article	IF	Citations
19	Prediction of scour depth at piers with debris accumulation effects using linear genetic programming. Marine Georesources and Geotechnology, 2020, 38, 468-479.	2.1	29
20	Computational assessment of groundwater salinity distribution within coastal multi-aquifers of Bangladesh. Scientific Reports, 2022, 12, .	3.3	29
21	Experimental investigation on thermal conductivity of fly ash nanofluid and fly ash-Cu hybrid nanofluid: prediction and optimization via ANN and MGGP model. Particulate Science and Technology, 2022, 40, 182-195.	2.1	27
22	Experimental evaluation and development of predictive models for rheological behavior of aqueous Fe3O4 ferrofluid in the presence of an external magnetic field by introducing a novel grid optimization based-Kernel ridge regression supported by sensitivity analysis. Powder Technology, 2021, 393, 1-11.	4.2	27
23	Discharge coefficient prediction of canal radial gate using neurocomputing models: an investigation of free and submerged flow scenarios. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 1-19.	3.1	27
24	Estimation of triangular side orifice discharge coefficient under a free flow condition using data-driven models. Flow Measurement and Instrumentation, 2021, 77, 101878.	2.0	24
25	A meticulousÂintelligent approach to predict thermal conductivity ratio of hybrid nanofluids for heat transfer applications. Journal of Thermal Analysis and Calorimetry, 2021, 146, 611-628.	3.6	23
26	Thermal performance of hybrid fly ash and copper nanofluid in various mixture ratios: Experimental investigation and application of a modern ensemble machine learning approach. International Communications in Heat and Mass Transfer, 2021, 129, 105731.	5.6	21
27	Investigation on two-phase fluid mixture flow, heat transfer and entropy generation of a non-Newtonian water-CMC/CuO nanofluid inside a twisted tube with variable twist pitch: Numerical and evolutionary machine learning simulation. Engineering Analysis With Boundary Elements, 2022, 140, 322-337.	3.7	21
28	A novel boosting ensemble committee-based model for local scour depth around non-uniformly spaced pile groups. Engineering With Computers, 2022, 38, 3439-3461.	6.1	19
29	Intelligent prediction of rock mass deformation modulus through three optimized cascaded forward neural network models. Earth Science Informatics, 2022, 15, 1659-1669.	3.2	19
30	The assessment of emerging data-intelligence technologies for modeling Mg+2 and SO4â˜2 surface water quality. Journal of Environmental Management, 2021, 300, 113774.	7.8	18
31	Prediction of local scour around circular piles under waves using a novel artificial intelligence approach. Marine Georesources and Geotechnology, 2021, 39, 44-55.	2.1	17
32	Long-term multi-step ahead forecasting of root zone soil moisture in different climates: Novel ensemble-based complementary data-intelligent paradigms. Agricultural Water Management, 2022, 269, 107679.	5.6	17
33	Development of a new wavelet-based hybrid model to forecast multi-scalar SPEI drought index (case) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	16
34	Nanofluids thermal conductivity prediction applying a novel hybrid data-driven model validated using Monte Carlo-based sensitivity analysis. Engineering With Computers, 2022, 38, 815-839.	6.1	15
35	A novel solution for simulating air overpressure resulting from blasting using an efficient cascaded forward neural network. Engineering With Computers, 2022, 38, 2069-2081.	6.1	14
36	Toward the accurate estimation of elliptical side orifice discharge coefficient applying two rigorous kernel-based data-intelligence paradigms. Scientific Reports, 2021, 11, 19784.	3.3	14

#	Article	IF	Citations
37	Experimental exploration of rheological behavior of polyethylene glycol-carbon dot nanofluid: Introducing a robust artificial intelligence paradigm optimized with unscented Kalman filter technique. Journal of Molecular Liquids, 2022, 358, 119198.	4.9	13
38	Mutating fuzzy logic model with various rigorous meta-heuristic algorithms for soil moisture content estimation. Agricultural Water Management, 2022, 261, 107342.	5.6	12
39	Total Dissolved Salt Prediction Using Neurocomputing Models: Case Study of Gypsum Soil Within Iraq Region. IEEE Access, 2021, 9, 53617-53635.	4.2	10
40	Developing hybrid data-intelligent method using Boruta-random forest optimizer for simulation of nitrate distribution pattern. Agricultural Water Management, 2022, 270, 107715.	5.6	10
41	Predicting daily soil temperature at multiple depths using hybrid machine learning models for a semi-arid region in Punjab, India. Environmental Science and Pollution Research, 2022, 29, 71270-71289.	5.3	9
42	Predicting Rock Brittleness Using a Robust Evolutionary Programming Paradigm and Regression-Based Feature Selection Model. Applied Sciences (Switzerland), 2022, 12, 7101.	2.5	9
43	Combined Terrestrial Evapotranspiration Index prediction using a hybrid artificial intelligence paradigm integrated with relief algorithm-based feature selection. Computers and Electronics in Agriculture, 2022, 193, 106687.	7.7	8
44	Assessment of thermal conductivity of polyethylene glycol-carbon dot nanofluid through a combined experimental-data mining investigation. Journal of Materials Research and Technology, 2022, 19, 2695-2704.	5.8	8
45	Recent advances in the prediction of thermophysical properties of nanofluids using artificial intelligence. , 2022, , 203-232.		7
46	Earth skin temperature long-term prediction using novel extended Kalman filter integrated with Artificial Intelligence models and information gain feature selection. Sustainable Computing: Informatics and Systems, 2022, 35, 100721.	2.2	7
47	Estimating daily global solar radiation in hot semi-arid climate using an efficient hybrid intelligent system. European Physical Journal Plus, 2022, 137, 1.	2.6	5
48	A parametric assessing and intelligent forecasting of the energy and exergy performances of a dish concentrating photovoltaic/thermal collector considering six different nanofluids and applying two meticulous soft computing paradigms. Renewable Energy, 2022, 193, 149-166.	8.9	5
49	Two-phase mixture numerical and soft computing-based simulation of forced convection of biologically prepared water-silver nanofluid inside a double-pipe heat exchanger with converging sinusoidal wall: Hydrothermal performance and entropy generation analysis. Engineering Analysis With Boundary Elements, 2022, 143, 43-60.	3.7	5