Meisam Babanezhad

List of Publications by Year
in descending order

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40 papers	873 citations	361413 20 h-index	501196 28 g-index
43 all docs	43 docs citations	43 times ranked	320 citing authors

#	Article	IF	Citations
1	Prediction of fluid pattern in a shear flow on intelligent neural nodes using ANFIS and LBM. Neural Computing and Applications, 2020, 32, 13313-13321.	5.6	52
2	Liquidâ€phase chemical reactors: Development of 3D hybrid model based on CFDâ€adaptive networkâ€based fuzzy inference system. Canadian Journal of Chemical Engineering, 2019, 97, 1676-1684.	1.7	46
3	Prediction of Nanofluid Temperature Inside the Cavity by Integration of Grid Partition Clustering Categorization of a Learning Structure with the Fuzzy System. ACS Omega, 2020, 5, 3571-3578.	3.5	40
4	Changes in the Number of Membership Functions for Predicting the Gas Volume Fraction in Two-Phase Flow Using Grid Partition Clustering of the ANFIS Method. ACS Omega, 2020, 5, 16284-16291.	3.5	37
5	Developing Intelligent Algorithm as a Machine Learning Overview over the Big Data Generated by Eulerâ€“Euler Method To Simulate Bubble Column Reactor Hydrodynamics. ACS Omega, 2020, 5, 20558-20566.	3.5	35
6	High-performance hybrid modeling chemical reactors using differential evolution based fuzzy inference system. Scientific Reports, 2020, 10, 21304.	3.3	34
7	Prediction of thermal distribution and fluid flow in the domain with multi-solid structures using Cubic-Interpolated Pseudo-Particle model. PLoS ONE, 2020, 15, e0233850.	2.5	34
8	Performance and application analysis of ANFIS artificial intelligence for pressure prediction of nanofluid convective flow in a heated pipe. Scientific Reports, 2021, 11, 902.	3.3	34
9	ANFIS grid partition framework with difference between two sigmoidal membership functions structure for validation of nanofluid flow. Scientific Reports, 2020, 10, 15395.	3.3	34
10	Influence of number of membership functions on prediction of membrane systems using adaptive network based fuzzy inference system (ANFIS). Scientific Reports, 2020, 10, 16110.	3.3	33
11	Prediction of turbulence eddy dissipation of water flow in a heated metal foam tube. Scientific Reports, 2020, 10, 19280.	3.3	33
12	Pattern recognition of the fluid flow in a 3D domain by combination of Lattice Boltzmann and ANFIS methods. Scientific Reports, 2020, 10, 15908.	3.3	32
13	Functional input and membership characteristics in the accuracy of machine learning approach for estimation of multiphase flow. Scientific Reports, 2020, 10, 17793.	3.3	29
14	Computational Modeling of Transport in Porous Media Using an Adaptive Network-Based Fuzzy Inference System. ACS Omega, 2020, 5, 30826-30835.	3.5	28
15	Simulation of a Bubble-Column Reactor by Three-Dimensional CFD: Multidimension- and Function-Adaptive Network-Based Fuzzy Inference System. International Journal of Fuzzy Systems, 2020, 22, 477-490.	4.0	27
16	Flow visualization and analysis of thermal distribution for the nanofluid by the integration of fuzzy c-means clustering ANFIS structure and CFD methods. Journal of Visualization, 2020, 23, 97-110.	1.8	26
17	Application of adaptive network-based fuzzy inference system (ANFIS) in the numerical investigation of Cu/water nanofluid convective flow. Case Studies in Thermal Engineering, 2020, 22, 100793.	5.7	23
18	Bubbly flow prediction with randomized neural cells artificial learning and fuzzy systems based on kâ€“Îµ turbulence and Eulerian model data set. Scientific Reports, 2020, 10, 13837.	3.3	22

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19	Artificial intelligence simulation of suspended sediment load with different membership functions of ANFIS. Neural Computing and Applications, 2021, 33, 6819-6833.	5.6	22
20	Velocity prediction of Cu/water nanofluid convective flow in a circular tube: Learning CFD data by differential evolution algorithm based fuzzy inference system (DEFIS). International Communications in Heat and Mass Transfer, 2021, 126, 105373.	5.6	21
21	Modeling the degradation/recovery of open-circuit voltage in perovskite and thin film solar cells. Materials and Design, 2017, 114, 339-344.	7.0	20
22	Prediction of flow characteristics in the bubble column reactor by the artificial pheromone-based communication of biological ants. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 367-378.	3.1	20
23	Thermal prediction of turbulent forced convection of nanofluid using computational fluid dynamics coupled genetic algorithm with fuzzy interface system. Scientific Reports, 2021, 11, 1308.	3.3	18
24	Investigation on performance of particle swarm optimization (PSO) algorithm based fuzzy inference system (PSOFIS) in a combination of CFD modeling for prediction of fluid flow. Scientific Reports, 2021, 11, 1505.	3.3	17
25	Prediction of gas velocity in two-phase flow using developed fuzzy logic system with differential evolution algorithm. Scientific Reports, 2021, 11, 2380.	3.3	15
26	Prediction of Nanofluid Characteristics and Flow Pattern on Artificial Differential Evolution Learning Nodes and Fuzzy Framework. ACS Omega, 2020, 5, 22091-22098.	3.5	15
27	Velocity prediction of nanofluid in a heated porous pipe: DEFIS learning of CFD results. Scientific Reports, 2021, 11, 1209.	3.3	14
28	Evaluation of product of two sigmoidal membership functions (psigmf) as an ANFIS membership function for prediction of nanofluid temperature. Scientific Reports, 2020, 10, 22337.	3.3	13
29	Liquid temperature prediction in bubbly flow using ant colony optimization algorithm in the fuzzy inference system as a trainer. Scientific Reports, 2020, 10, 21884.	3.3	11
30	Numerical investigation of water forced convection inside a copper metal foam tube: Genetic algorithm (GA) based fuzzy inference system (GAFIS) contribution with CFD modeling. International Journal of Heat and Mass Transfer, 2022, 182, 122016.	4.8	11
31	Multidimensional machine learning algorithms to learn liquid velocity inside a cylindrical bubble column reactor. Scientific Reports, 2020, 10, 21502.	3.3	10
32	Pressure and temperature predictions of Al2O3/water nanofluid flow in a porous pipe for different nanoparticles volume fractions: combination of CFD and ACOFIS. Scientific Reports, 2021, 11, 60.	3.3	10
33	Predicting Air Superficial Velocity of Two-Phase Reactors Using ANFIS and CFD. ACS Omega, 2021, 6, 239-252.	3.5	10
34	Prediction of velocity profile of water based copper nanofluid in a heated porous tube using CFD and genetic algorithm. Scientific Reports, 2021, 11, 10623.	3.3	8
35	Numerical investigation of nanofluid flow using CFD and fuzzy-based particle swarm optimization. Scientific Reports, 2021, 11, 20973.	3.3	8
36	gbell Learning function along with Fuzzy Mechanism in Prediction of Two-Phase Flow. ACS Omega, 2020, 5, 25882-25890.	3.5	6

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37	Ability of neural network cells in learning teacher motivation scale and prediction of motivation with fuzzy logic system. Scientific Reports, 2021, 11, 9721.	3.3	5
38	Simulation of liquid flow with a combination artificial intelligence flow field and Adamsâ€“Bashforth method. Scientific Reports, 2020, 10, 16719.	3.3	4
39	Prediction of fluid interface between dispersed and matrix phases by Lattice Boltzmann-adaptive network-based fuzzy inference system. Journal of Experimental and Theoretical Artificial Intelligence, 2020, , 1-13.	2.8	1
40	Investigation of Input Variables Influence in Patterns Learning of Fluid Flow Behavior Using Fuzzy Differential Evolution. Arabian Journal for Science and Engineering, 0, , .	3.0	1