Azam Marjani

List of Publications by Year
in descending order

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57	1,111	361388	454934
papers	citations	20	30
		h-index	g-index

57	57	57	541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel and facile green synthesis method to prepare LDH/MOF nanocomposite for removal of Cd(II) and Pb(II). Scientific Reports, 2021, 11, 1609.	3.3	67
2	Implementation of the Finite Element Method for Simulation of Mass Transfer in Membrane Contactors. Chemical Engineering and Technology, 2012, 35, 1077-1084.	1.5	54
3	Diminishing vortex intensity and improving heat transfer by applying magnetic field on an injectable slip microchannel containing FMWNT/water nanofluid. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2235-2246.	3.6	43
4	Synthesis, molecular dynamics simulation and adsorption study of different pollutants on functionalized mesosilica. Scientific Reports, 2021, 11, 1967.	3.3	41
5	Efficient oxidation/mineralization of pharmaceutical pollutants using a novel Iron (III) oxyhydroxide nanostructure prepared via plasma technology: Experimental, modeling and DFT studies. Journal of Hazardous Materials, 2021, 411, 125074.	12.4	40
6	Development of a Group Contribution Method Based on UNIFAC Groups for the Estimation of Vapor Pressures of Pure Hydrocarbon Compounds. Chemical Engineering and Technology, 2013, 36, 483-491.	1.5	36
7	Modification of polyethersulfone membrane using MWCNT-NH2 nanoparticles and its application in the separation of azeotropic solutions by means of pervaporation. PLoS ONE, 2020, 15, e0236529.	2.5	35
8	High-performance hybrid modeling chemical reactors using differential evolution based fuzzy inference system. Scientific Reports, 2020, 10, 21304.	3.3	34
9	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
10	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
11	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
12	Prediction of turbulence eddy dissipation of water flow in a heated metal foam tube. Scientific Reports, 2020, 10, 19280.	3.3	33
13	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
14	Chloroquine (antimalaria medication with anti SARS-CoV activity) solubility in supercritical carbon dioxide. Journal of Molecular Liquids, 2021, 322, 114539.	4.9	31
15	Using static method to measure tolmetin solubility at different pressures and temperatures in supercritical carbon dioxide. Scientific Reports, 2020, 10, 19595.	3.3	29
16	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
17	Computational Modeling of Transport in Porous Media Using an Adaptive Network-Based Fuzzy Inference System. ACS Omega, 2020, 5, 30826-30835.	3.5	28
18	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

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19	Experimental and thermodynamic modeling decitabine anti cancer drug solubility in supercritical carbon dioxide. Scientific Reports, 2021, 11, 1075.	3.3	24
20	Artificial intelligence simulation of suspended sediment load with different membership functions of ANFIS. Neural Computing and Applications, 2021, 33, 6819-6833.	5.6	22
21	High performance ozone based advanced oxidation processes catalyzed with novel argon plasma treated iron oxyhydroxide hydrate for phenazopyridine degradation. Scientific Reports, 2021, 11, 964.	3.3	22
22	Fabrication of PVA coated PES/PVDF nanocomposite membranes embedded with in situ formed magnetite nanoparticles for removal of metal ions from aqueous solutions. New Journal of Chemistry, 2017, 41, 6405-6414.	2.8	21
23	Separation of copper ions by nanocomposites using adsorption process. Scientific Reports, 2021, 11, 1676.	3.3	20
24	Synthesis of multi-organo-functionalized fibrous silica KCC-1 for highly efficient adsorption of acid fuchsine and acid orange II from aqueous solution. Scientific Reports, 2021, 11, 2716.	3.3	20
25	Influence of machine learning membership functions and degree of membership function on each input parameter for simulation of reactors. Scientific Reports, 2021, 11, 1891.	3.3	19
26	Tenoxicam (Mobiflex) Solubility in Carbon Dioxide under Supercritical Conditions. Journal of Chemical & Engineering Data, 2021, 66, 990-998.	1.9	19
27	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
28	Intensification of CO2 absorption using MDEA-based nanofluid in a hollow fibre membrane contactor. Scientific Reports, 2021, 11, 2649.	3.3	17
29	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
30	Preparation of cellulose acetate membrane coated by PVA/Fe3O4 nanocomposite thin film: an in situ procedure. Colloid and Polymer Science, 2018, 296, 1213-1223.	2.1	16
31	Supercritical Process for Preparation of Nanomedicine: Oxaprozin Case Study. Chemical Engineering and Technology, 2021, 44, 208-212.	1.5	16
32	Controlled release evaluation of paracetamol loaded amine functionalized mesoporous silica KCC1 compared to microcrystalline cellulose based tablets. Scientific Reports, 2021, 11, 535.	3.3	15
33	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
34	Velocity prediction of nanofluid in a heated porous pipe: DEFIS learning of CFD results. Scientific Reports, 2021, 11, 1209.	3.3	14
35	Evaluation of Supercritical Technology for the Preparation of Nanomedicine: Etoricoxib Analysis. Chemical Engineering and Technology, 2021, 44, 559-564.	1.5	13
36	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

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37	Molecular dynamics performance for coronavirus simulation by C, N, O, and S atoms implementation dreiding force field: drug delivery atomic interaction in contact with metallic Fe, Al, and steel. Computational Particle Mechanics, 2021, 8, 737-749.	3.0	11
38	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
39	Multidimensional machine learning algorithms to learn liquid velocity inside a cylindrical bubble column reactor. Scientific Reports, 2020, 10, 21502.	3.3	10
40	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
41	Predicting Air Superficial Velocity of Two-Phase Reactors Using ANFIS and CFD. ACS Omega, 2021, 6, 239-252.	3.5	10
42	An insight into the estimation of relative humidity of air using artificial intelligence schemes. Environment, Development and Sustainability, 2021, 23, 10194-10222.	5.0	9
43	Alkali metal doping of black phosphorus monolayer for ultrasensitive capture and detection of nitrogen dioxide. Scientific Reports, 2021, 11, 842.	3.3	9
44	Mechanistic modeling and numerical simulation of axial flow catalytic reactor for naphtha reforming unit. PLoS ONE, 2020, 15, e0242343.	2.5	9
45	Surface modification of a cellulose acetate membrane using a nanocomposite suspension based on magnetic particles. Cellulose, 2019, 26, 7995-8006.	4.9	7
46	Molecular separation of ibuprofen and 4-isobutylacetophenone using octanol organic solution by porous polymeric membranes. PLoS ONE, 2020, 15, e0237271.	2.5	7
47	Extraction of ingredients from tea leaves using oxidative enzymatic reaction and optimization of extraction conditions. Scientific Reports, 2021, 11, 4094.	3.3	7
48	Computational modeling of drug separation from aqueous solutions using octanol organic solution in membranes. Scientific Reports, 2020, 10, 19133.	3.3	6
49	In situ Polymerized FDUâ€12/Poly(methyl methacrylate) and FDUâ€12/polyamideâ€‰6 Nanocomposites for Cd²⁺ Adsorption. Chemical Engineering and Technology, 2021, 44, 431-440.	1.5	6
50	gbell Learning function along with Fuzzy Mechanism in Prediction of Two-Phase Flow. ACS Omega, 2020, 5, 25882-25890.	3.5	6
51	Simulation of liquid flow with a combination artificial intelligence flow field and Adamsâ€“Bashforth method. Scientific Reports, 2020, 10, 16719.	3.3	4
52	Treatment of Shazand Petrochemical Co. Effluent using Electro-Fenton Method Modified with Iron Nanoparticles and Anodic Aluminum Oxide Electrode: A Comparison. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2799-2806.	1.5	3
53	Simultaneous geological CO₂ sequestration and gas production from shale gas reservoirs: brief review on technology, feasibility, and numerical modeling. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-18.	2.3	3
54	Cellulose Acetate Mixed Matrix Membranes Coated with PEG/TiO₂ for Removal of Pb(II) Ions from Aqueous Solutions: Combined Experimental and Quantum Chemical Modeling Investigation. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 193-202.	4.2	1

#	Article	IF	Citations
55	Development of computational methods for estimation of current efficiency and cell voltage in a Chlor-alkali membrane cell. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-14.	2.3	1
56	INVESTIGATING THE EFFECTS OF THE EXTERNAL ELECTRIC FIELD ON OSMABENZYNE IN THE GROUND (S0) AND FIRST EXCITED SINGLET (S1) STATES: INSIGHT INTO STRUCTURES, ENERGY, AND PROPERTIES. Journal of Structural Chemistry, 2020, 61, 1691-1699.	1.0	1
57	Study on novel modified large mesoporous silica FDU-12/polymer matrix nanocomposites for adsorption of Pb(II). PLoS ONE, 2021, 16, e0245583.	2.5	0