Saeed Shirazian

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A new insight into catalytic ozonation of sulfasalazine antibiotic by plasma-treated limonite nanostructures: Experimental, modeling and mechanism. Chemical Engineering Journal, 2022, 428, 131230.	12.7	43
2	Bio-based 3D dendritic silica nanosphere: A green superior adsorbent. Journal of Cleaner Production, 2022, 335, 130204.	9.3	10
3	Experimental analysis and thermodynamic modelling of lenalidomide solubility in supercritical carbon dioxide. Arabian Journal of Chemistry, 2022, 15, 103821.	4.9	24
4	Challenges and opportunities in modelling wet granulation in pharmaceutical industry – A critical review. Powder Technology, 2022, 403, 117380.	4.2	31
5	A molecularly enhanced proof of concept for targeting cocrystals at molecular scale in continuous pharmaceuticals cocrystallization. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	0
6	Functionalized pollen-like mesoporous silica. Microporous and Mesoporous Materials, 2021, 310, 110531.	4.4	26
7	Measuring salsalate solubility in supercritical carbon dioxide: Experimental and thermodynamic modelling. Journal of Chemical Thermodynamics, 2021, 152, 106271.	2.0	37
8	Computational modelling of separation and purification of vanillin using microporous membranes. Journal of Molecular Liquids, 2021, 323, 114606.	4.9	3
9	Molecular dynamics simulation of novel diamino-functionalized hollow mesosilica spheres for adsorption of dyes from synthetic wastewater. Journal of Molecular Liquids, 2021, 322, 114812.	4.9	65
10	Artificial intelligence simulation of suspended sediment load with different membership functions of ANFIS. Neural Computing and Applications, 2021, 33, 6819-6833.	5.6	22
11	Thermodynamic study on solubility of brain tumor drug in supercritical solvent: Temozolomide case study. Journal of Molecular Liquids, 2021, 321, 114926.	4.9	28
12	Supercritical Process for Preparation of Nanomedicine: Oxaprozin Case Study. Chemical Engineering and Technology, 2021, 44, 208-212.	1.5	16
13	Design and optimization of a hybrid process based on hollow-fiber membrane/coagulation for wastewater treatment. Environmental Science and Pollution Research, 2021, 28, 8235-8245.	5.3	12
14	Preparation of COOH-KCC-1/polyamide 6 composite by in situ ring-opening polymerization: synthesis, characterization, and Cd(II) adsorption study. Journal of Environmental Chemical Engineering, 2021, 9, 104683.	6.7	39
15	Chloroquine (antimalaria medication with anti SARS-CoV activity) solubility in supercritical carbon dioxide. Journal of Molecular Liquids, 2021, 322, 114539.	4.9	31
16	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
17	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
18	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

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19	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
20	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
21	Experimental and thermodynamic modeling decitabine anti cancer drug solubility in supercritical carbon dioxide. Scientific Reports, 2021, 11, 1075.	3.3	24
22	Intensification of CO2 absorption using MDEA-based nanofluid in a hollow fibre membrane contactor. Scientific Reports, 2021, 11, 2649.	3.3	17
23	Velocity prediction of nanofluid in a heated porous pipe: DEFIS learning of CFD results. Scientific Reports, 2021, 11, 1209.	3.3	14
24	Synthesis of multi-application activated carbon from oak seeds by KOH activation for methylene blue adsorption and electrochemical supercapacitor electrode. Arabian Journal of Chemistry, 2021, 14, 102958.	4.9	67
25	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
26	Mixed Matrix Membranes for Sustainable Electrical Energyâ€Saving Applications. ChemBioEng Reviews, 2021, 8, 27-43.	4.4	12
27	Predictive thermodynamic modeling and experimental measurements on solubility of active pharmaceutical ingredient: Lornoxicam case study. Journal of Molecular Liquids, 2021, 326, 115285.	4.9	9
28	Evaluation of potassium glycinate, potassium lysinate, potassium sarcosinate and potassium threonate solutions in CO2 capture using membranes. Arabian Journal of Chemistry, 2021, 14, 102979.	4.9	32
29	Oak wood ash/GO/Fe3O4 adsorption efficiencies for cadmium and lead removal from aqueous solution: Kinetics, equilibrium and thermodynamic evaluation. Arabian Journal of Chemistry, 2021, 14, 102991.	4.9	76
30	A water-stable functionalized NiCo-LDH/MOF nanocomposite: green synthesis, characterization, and its environmental application for heavy metals adsorption. Arabian Journal of Chemistry, 2021, 14, 103052.	4.9	65
31	Application of artificial neural network for prediction of particle size in pharmaceutical cocrystallization using mechanochemical synthesis. Neural Computing and Applications, 2021, 33, 12621.	5.6	11
32	Novel bimodal microâ€mesoporous Ni50Co50-LDH/UiO-66-NH2 nanocomposite for Tl(I) adsorption. Arabian Journal of Chemistry, 2021, 14, 103058.	4.9	24
33	Tailoring crystal size distributions for product performance, compaction of paracetamol. Arabian Journal of Chemistry, 2021, 14, 103089.	4.9	9
34	Understanding solid-state processing of pharmaceutical cocrystals via milling: Role of tablet excipients. International Journal of Pharmaceutics, 2021, 601, 120514.	5.2	19
35	Molecular modeling investigation on mechanism of cationic dyes removal from aqueous solutions by mesoporous materials. Journal of Molecular Liquids, 2021, 329, 115485.	4.9	46
36	A societal transition of MSW management in Xiamen (China) toward a circular economy through integrated waste recycling and technological digitization. Environmental Pollution, 2021, 277, 116741.	7.5	81

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37	Molecular dynamic simulations and quantum chemical calculations of adsorption process using amino-functionalized silica. Journal of Molecular Liquids, 2021, 330, 115544.	4.9	51
38	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
39	Resource recovery toward sustainability through nutrient removal from landfill leachate. Journal of Environmental Management, 2021, 287, 112265.	7.8	57
40	Resource recovery from landfill leachate: An experimental investigation and perspectives. Chemosphere, 2021, 274, 129986.	8.2	57
41	Comprehensive modelling of pharmaceutical solvation energy in different solvents. Journal of Molecular Liquids, 2021, 341, 117390.	4.9	6
42	Synthesis, molecular dynamics simulation and adsorption study of different pollutants on functionalized mesosilica. Scientific Reports, 2021, 11, 1967.	3.3	41
43	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
44	Application of Mineral Iron-Based Natural Catalysts in Electro-Fenton Process: A Comparative Study. Catalysts, 2021, 11, 57.	3.5	31
45	Tenoxicam (Mobiflex) Solubility in Carbon Dioxide under Supercritical Conditions. Journal of Chemical & Engineering Data, 2021, 66, 990-998.	1.9	19
46	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
47	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
48	Predicting Air Superficial Velocity of Two-Phase Reactors Using ANFIS and CFD. ACS Omega, 2021, 6, 239-252.	3.5	10
49	Synthesis and characterization of novel N-methylimidazolium-functionalized KCC-1: A highly efficient anion exchanger of hexavalent chromium. Chemosphere, 2020, 239, 124735.	8.2	53
50	Revisiting â€~penetration depth' in falling film mass transfer. Chemical Engineering Research and Design, 2020, 155, 18-21.	5.6	4
51	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
52	Compartmental approach for modelling twin-screw granulation using population balances. International Journal of Pharmaceutics, 2020, 576, 118737.	5.2	36
53	Mesostructured Hollow Siliceous Spheres for Adsorption of Dyes. Chemical Engineering and Technology, 2020, 43, 392-402.	1.5	46
54	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

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55	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
56	Computational Simulation of CO2 Sorption in Polymeric Membranes Using Genetic Programming. Arabian Journal for Science and Engineering, 2020, 45, 7655-7666.	3.0	7
57	Development of high-performance hybrid ANN-finite volume scheme (ANN-FVS) for simulation of pharmaceutical continuous granulation. Chemical Engineering Research and Design, 2020, 163, 320-326.	5.6	33
58	Using static method to measure tolmetin solubility at different pressures and temperatures in supercritical carbon dioxide. Scientific Reports, 2020, 10, 19595.	3.3	29
59	CFD approach for simulation of API release from solid dosage formulations. Journal of Molecular Liquids, 2020, 317, 113899.	4.9	7
60	Theoretical investigations on the effect of absorbent type on carbon dioxide capture in hollow-fiber membrane contactors. PLoS ONE, 2020, 15, e0236367.	2.5	27
61	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
62	Measuring solubility of a chemotherapy-anti cancer drug (busulfan) in supercritical carbon dioxide. Journal of Molecular Liquids, 2020, 317, 113954.	4.9	47
63	Computational fluid dynamics simulation of NO2 molecular sequestration from a gaseous stream using NaOH liquid absorbent through porous membrane contactors. Journal of Molecular Liquids, 2020, 313, 113584.	4.9	36
64	Simulation of liquid flow with a combination artificial intelligence flow field and Adams–Bashforth method. Scientific Reports, 2020, 10, 16719.	3.3	4
65	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
66	Incomplete cocrystalization of ibuprofen and nicotinamide and its interplay with formation of ibuprofen dimer and/or nicotinamide dimer: A thermodynamic analysis based on DFT data. International Journal of Pharmaceutics, 2020, 591, 119992.	5.2	8
67	Thermodynamic modelling and experimental validation of pharmaceutical solubility in supercritical solvent. Journal of Molecular Liquids, 2020, 319, 114120.	4.9	36
68	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
69	A thermokinetic model for penetrant-induced swelling in polymeric membranes: Water in polybenzimidazole membranes. Journal of Molecular Liquids, 2020, 317, 114000.	4.9	3
70	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
71	Loxoprofen Solubility in Supercritical Carbon Dioxide: Experimental and Modeling Approaches. Journal of Chemical & Engineering Data, 2020, 65, 4613-4620.	1.9	35
72	Bubbly flow prediction with randomized neural cells artificial learning and fuzzy systems based on k–ε turbulence and Eulerian model data set. Scientific Reports, 2020, 10, 13837.	3.3	22

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73	Molecular investigation into the effect of carbon nanotubes interaction with CO2 in molecular separation using microporous polymeric membranes. Scientific Reports, 2020, 10, 13285.	3.3	12
74	Molecular separation of ibuprofen and 4-isobutylacetophenone using octanol organic solution by porous polymeric membranes. PLoS ONE, 2020, 15, e0237271.	2.5	7
75	Developing Intelligent Algorithm as a Machine Learning Overview over the Big Data Generated by Euler–Euler Method To Simulate Bubble Column Reactor Hydrodynamics. ACS Omega, 2020, 5, 20558-20566.	3.5	35
76	Computational modeling of drug separation from aqueous solutions using octanol organic solution in membranes. Scientific Reports, 2020, 10, 19133.	3.3	6
77	Prediction of turbulence eddy dissipation of water flow in a heated metal foam tube. Scientific Reports, 2020, 10, 19280.	3.3	33
78	High-performance hybrid modeling chemical reactors using differential evolution based fuzzy inference system. Scientific Reports, 2020, 10, 21304.	3.3	34
79	Multidimensional machine learning algorithms to learn liquid velocity inside a cylindrical bubble column reactor. Scientific Reports, 2020, 10, 21502.	3.3	10
80	Computational Modeling of Transport in Porous Media Using an Adaptive Network-Based Fuzzy Inference System. ACS Omega, 2020, 5, 30826-30835.	3.5	28
81	Characterization of Simultaneous Evolution of Size and Composition Distributions Using Generalized Aggregation Population Balance Equation. Pharmaceutics, 2020, 12, 1152.	4.5	16
82	Fluid Velocity Prediction Inside Bubble Column Reactor Using ANFIS Algorithm Based on CFD Input Data. Arabian Journal for Science and Engineering, 2020, 45, 7487-7498.	3.0	29
83	Hierarchical multi-shell hollow micro–meso–macroporous silica for Cr(VI) adsorption. Scientific Reports, 2020, 10, 9788.	3.3	33
84	Mathematical modelling and simulation of nitrite hydrogenation in a membrane microreactor. International Journal of Hydrogen Energy, 2020, 45, 21555-21566.	7.1	2
85	Computational investigation on the effect of [Bmim][BF4] ionic liquid addition to MEA alkanolamine absorbent for enhancing CO2 mass transfer inside membranes. Journal of Molecular Liquids, 2020, 314, 113635.	4.9	37
86	Computational study on SO2 molecular separation applying novel EMISE ionic liquid and DMA aromatic amine solution inside microporous membranes. Journal of Molecular Liquids, 2020, 313, 113531.	4.9	21
87	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
88	Experimental Solubility Measurements of Fenoprofen in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2020, 65, 1425-1434.	1.9	42
89	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
90	Thermal and Flow Visualization of a Square Heat Source in a Nanofluid Material with a Cubic-Interpolated Pseudo-particle. ACS Omega, 2020, 5, 17658-17663.	3.5	34

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91	Modelling tyramine extraction from wastewater using a non-dispersive solvent extraction process. Environmental Science and Pollution Research, 2020, 27, 39068-39076.	5.3	32
92	Novel mesoporous crumpled paper-like silica balls. Materials Letters, 2020, 281, 128230.	2.6	19
93	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
94	Effect of graphene oxide on modifying polyethersulfone membrane performance and its application in wastewater treatment. Scientific Reports, 2020, 10, 2049.	3.3	122
95	Preparation and optimization of activated nano-carbon production using physical activation by water steam from agricultural wastes. RSC Advances, 2020, 10, 1463-1475.	3.6	56
96	Physical adsorption of CO2 in biomass at atmospheric pressure and ambient temperature. Environmental Chemistry Letters, 2020, 18, 1423-1431.	16.2	18
97	Meso-architectured siliceous hollow quasi-capsule. Journal of Colloid and Interface Science, 2020, 570, 390-401.	9.4	43
98	A hierarchical LDH/MOF nanocomposite: single, simultaneous and consecutive adsorption of a reactive dye and Cr(<scp>vi</scp>). Dalton Transactions, 2020, 49, 5323-5335.	3.3	93
99	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
100	A molecular scale analysis of TEMPO-oxidation of native cellulose molecules. Heliyon, 2020, 6, e05776.	3.2	16
101	Mass transfer modeling absorption using nanofluids in porous polymeric membranes. Journal of Molecular Liquids, 2020, 318, 114115.	4.9	29
102	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
103	gbell Learning function along with Fuzzy Mechanism in Prediction of Two-Phase Flow. ACS Omega, 2020, 5, 25882-25890.	3.5	6
104	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
105	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
106	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
107	Mechanistic modeling and numerical simulation of axial flow catalytic reactor for naphtha reforming unit. PLoS ONE, 2020, 15, e0242343.	2.5	9
108	Microcrystalline cellulose, lactose and lignin blends: Process mapping of dry granulation via roll compaction. Powder Technology, 2019, 341, 38-50.	4.2	73

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109	Biofuel types and membrane separation. Environmental Chemistry Letters, 2019, 17, 1-18.	16.2	94
110	Numerical Simulation of Acetone Stripping from Water in a Microchannel Device. Chemical Engineering and Technology, 2019, 42, 2358-2364.	1.5	4
111	Novel diamino-functionalized fibrous silica submicro-spheres with a bimodal-micro-mesoporous network: Ultrasonic-assisted fabrication, characterization, and their application for superior uptake of Congo red. Journal of Molecular Liquids, 2019, 294, 111617.	4.9	52
112	Applicability of BaTiO3/graphene oxide (GO) composite for enhanced photodegradation of methylene blue (MB) in synthetic wastewater under UV–vis irradiation. Environmental Pollution, 2019, 255, 113182.	7.5	92
113	Application of lignin in controlled release: development of predictive model based on artificial neural network for API release. Cellulose, 2019, 26, 6165-6178.	4.9	71
114	Design of Controlled Release System for Paracetamol Based on Modified Lignin. Polymers, 2019, 11, 1059.	4.5	75
115	Mass transfer through PDMS/zeolite 4A MMMs for hydrogen separation: Molecular dynamics and grand canonical Monte Carlo simulations. International Communications in Heat and Mass Transfer, 2019, 108, 104259.	5.6	25
116	Multi-dimensional population balance modelling of pharmaceutical formulations for continuous twin-screw wet granulation: Determination of liquid distribution. International Journal of Pharmaceutics, 2019, 566, 352-360.	5.2	51
117	Development of Hybrid ANFIS–CFD Model for Design and Optimization of Membrane Separation of Benzoic Acid. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 285-293.	4.2	3
118	Sorption in mixed matrix membranes: Experimental and molecular dynamic simulation and Grand Canonical Monte Carlo method. Journal of Molecular Liquids, 2019, 282, 566-576.	4.9	27
119	Direct Leaching of Low-Grade Zinc Oxide Ore Containing High Amounts of Iron and Manganese. Transactions of the Indian Institute of Metals, 2019, 72, 1371-1380.	1.5	4
120	Organic/Silica Nanocomposite Membranes Applicable to Green Chemistry. , 2019, , 629-652.		2
121	Facile one-pot synthesis of thiol-functionalized mesoporous silica submicrospheres for Tl(I) adsorption: Isotherm, kinetic and thermodynamic studies. Journal of Hazardous Materials, 2019, 371, 146-155.	12.4	98
122	ANN-Kriging hybrid model for predicting carbon and inorganic phosphorus recovery in hydrothermal carbonization. Waste Management, 2019, 85, 242-252.	7.4	35
123	Shell-in-shell monodispersed triamine-functionalized SiO2 hollow microspheres with micro-mesostructured shells for highly efficient removal of heavy metals from aqueous solutions. Journal of Environmental Chemical Engineering, 2019, 7, 102832.	6.7	43
124	ANFIS pattern for molecular membranes separation optimization. Journal of Molecular Liquids, 2019, 274, 470-476.	4.9	100
125	Cellulose Acetate Polymeric Membrane Fabrication by Nonsolvent-Induced Phase Separation Process: Determination of Velocities of Individual Components. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 71-80.	4.2	3
126	Effect of lignin on the release rate of acetylsalicylic acid tablets. International Journal of Biological Macromolecules, 2019, 124, 354-359.	7.5	87

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127	Lignin-chitosan blend for methylene blue removal: Adsorption modeling. Journal of Molecular Liquids, 2019, 274, 778-791.	4.9	78
128	Developing ANN-Kriging hybrid model based on process parameters for prediction of mean residence time distribution in twin-screw wet granulation. Powder Technology, 2019, 343, 568-577.	4.2	82
129	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
130	SO ₂ Removal from Gas Streams by Ammonia Scrubbing: Process Optimization by Response Surface Methodology. Chemical Engineering and Technology, 2019, 42, 45-52.	1.5	20
131	Gas-Liquid Phase Recirculation in Bubble Column Reactors: Development of a Hybrid Model Based on Local CFD – Adaptive Neuro-Fuzzy Inference System (ANFIS). Journal of Non-Equilibrium Thermodynamics, 2019, 44, 29-42.	4.2	14
132	Molecular-level understanding of supported ionic liquid membranes for gas separation. Journal of Molecular Liquids, 2018, 262, 230-236.	4.9	19
133	Contaminant uptake by polymeric passive samplers: A modeling study with experimental validation. Chemical Engineering Research and Design, 2018, 129, 231-236.	5.6	9
134	Experimental investigation and thermodynamic modeling of amino acids partitioning in a water/ionic liquid system. Journal of Molecular Liquids, 2018, 260, 386-390.	4.9	14
135	Simulation of Nonporous Polymeric Membranes Using CFD for Bioethanol Purification. Macromolecular Theory and Simulations, 2018, 27, 1700084.	1.4	34
136	Topology optimization of neural networks based on a coupled genetic algorithm and particle swarm optimization techniques (c-GA–PSO-NN). Neural Computing and Applications, 2018, 29, 1073-1076.	5.6	11
137	Mathematical Modeling and Simulation of Nitrate Separation from Contaminated Water in a Membrane Contactor. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 1223-1231.	1.5	3
138	A priority supposition for estimation of timeâ€dependent changes in thickness and weight of polymeric flat sheet membranes fabricated by the nonsolvent induced phase separation (<scp>NIPS</scp>) technique. Advances in Polymer Technology, 2018, 37, 1963-1969.	1.7	3
139	Investigation into Ethanol Purification Using Polymeric Membranes and a Pervaporation Process. Chemical Engineering and Technology, 2018, 41, 278-284.	1.5	13
140	Regime-separated approach for population balance modelling of continuous wet granulation of pharmaceutical formulations. Powder Technology, 2018, 325, 420-428.	4.2	20
141	Mathematical Model for Numerical Simulation of Organic Compound Recovery Using Membrane Separation. Chemical Engineering and Technology, 2018, 41, 345-352.	1.5	26
142	Gas permeation prediction through polymeric membranes using compressible regular solution theory. International Journal of Hydrogen Energy, 2018, 43, 22357-22364.	7.1	9
143	Continuous twin screw wet granulation: The combined effect of process parameters on residence time, particle size, and granule morphology. Journal of Drug Delivery Science and Technology, 2018, 48, 319-327.	3.0	11
144	Theoretical Study of Moisture-Pretreated Lithium as Potential Material for Natural Gas Upgrading. Industrial & Engineering Chemistry Research, 2018, , .	3.7	3

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145	Quantum chemical calculations and molecular modeling for methylene blue removal from water by a lignin-chitosan blend. International Journal of Biological Macromolecules, 2018, 120, 2065-2075.	7.5	25
146	Estimating CH4 and CO2 solubilities in ionic liquids using computational intelligence approaches. Journal of Molecular Liquids, 2018, 271, 661-669.	4.9	60
147	Computational Simulation of Mass Transfer in Molecular Separation Using Microporous Polymeric Membranes. Chemical Engineering and Technology, 2018, 41, 1975-1981.	1.5	8
148	Development of a 3D Hybrid Intelligentâ€Mechanistic Model for Simulation of Multiphase Chemical Reactors. Chemical Engineering and Technology, 2018, 41, 1982-1993.	1.5	14
149	Predictive construction of phase diagram of ternary solutions containing polymer/solvent/nonsolvent using modified Flory-Huggins model. Journal of Molecular Liquids, 2018, 263, 282-287.	4.9	30
150	Organic solvent removal by pervaporation membrane technology: experimental and simulation. Environmental Science and Pollution Research, 2018, 25, 19818-19825.	5.3	20
151	Molecular modeling investigation on mechanism of phenol removal from aqueous media by single- and multi-walled carbon nanotubes. Journal of Molecular Liquids, 2018, 271, 24-30.	4.9	24
152	Development of hybrid models for prediction of gas permeation through FS/POSS/PDMS nanocomposite membranes. International Journal of Hydrogen Energy, 2018, 43, 17283-17294.	7.1	46
153	Separation Performance of Nanostructured Ceramic Membranes: Analytical Model Development. Journal of Non-Equilibrium Thermodynamics, 2018, 43, 245-253.	4.2	4
154	Molecular separation in liquid phase: Development of mechanistic model in membrane separation of organic compounds. Journal of Molecular Liquids, 2018, 262, 336-344.	4.9	28
155	Facilitated Dissociation of Water in the Presence of Lithium Metal at Ambient Temperature as a Requisite for Lithium–Gas Reactions. Journal of Physical Chemistry C, 2018, 122, 16016-16022.	3.1	10
156	Using neural networks coupled with particle swarm optimization technique for mathematical modeling of air gap membrane distillation (AGMD) systems for desalination process. Neural Computing and Applications, 2017, 28, 2099-2104.	5.6	30
157	Prediction of carbon dioxide sorption in polymers for capture and storage feasibility analysis. Chemical Engineering Research and Design, 2017, 120, 254-258.	5.6	17
158	Artificial neural network modelling of continuous wet granulation using a twin-screw extruder. International Journal of Pharmaceutics, 2017, 521, 102-109.	5.2	67
159	Using quantum chemical modeling and calculations for evaluation of cellulose potential for estrogen micropollutants removal from water effluents. Chemosphere, 2017, 178, 411-423.	8.2	37
160	Correlation of sorption-induced swelling in polymeric films with reference to attenuated total reflectance Fourier-transform infrared spectroscopy data. European Polymer Journal, 2017, 91, 429-435.	5.4	9
161	Mechanistic modelling of industrial-scale roller compactor â€ ⁻ Freund TF-MINI model'. Computers and Chemical Engineering, 2017, 104, 141-150.	3.8	25
162	Development of a mechanistic model for prediction of CO2 capture from gas mixtures by amine solutions in porous membranes. Environmental Science and Pollution Research, 2017, 24, 14508-14515.	5.3	17

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163	Development and validation of a graphical sorption model: application to sorption of organic liquids into low density polyethylene polymeric membrane. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 561-572.	1.5	7
164	On the search of rigorous thermo-kinetic model for wet phase inversion technique. Journal of Membrane Science, 2017, 538, 18-33.	8.2	33
165	H2-selective mixed matrix membranes modeling using ANFIS, PSO-ANFIS, GA-ANFIS. International Journal of Hydrogen Energy, 2017, 42, 15211-15225.	7.1	175
166	Mathematical Modeling and Simulation of Propylene Absorption Using Membrane Contactors. Chemical Engineering and Technology, 2017, 40, 1652-1659.	1.5	4
167	Numerical simulation of reactive extraction of benzoic acid from wastewater via membrane contactors. Environmental Science and Pollution Research, 2017, 24, 11518-11527.	5.3	8
168	ANN Analysis of a Roller Compaction Process in the Pharmaceutical Industry. Chemical Engineering and Technology, 2017, 40, 487-492.	1.5	23
169	Polymer-water partition coefficients in polymeric passive samplers. Environmental Science and Pollution Research, 2017, 24, 2627-2631.	5.3	17
170	Activated lignin-chitosan extruded blends for efficient adsorption of methylene blue. Chemical Engineering Journal, 2017, 307, 264-272.	12.7	601
171	Simulation of CO 2 absorption by solution of ammonium ionic liquid in hollow-fiber contactors. Chemical Engineering and Processing: Process Intensification, 2016, 108, 27-34.	3.6	75
172	Theoretical modeling for thermophysical properties of cellulose: pressure/volume/temperature data. Cellulose, 2016, 23, 1101-1105.	4.9	10
173	Binary Mutual Diffusion Coefficients of Polymer/Solvent Systems Using Compressible Regular Solutions Theory and Free Volume Theory. Journal of Non-Equilibrium Thermodynamics, 2016, 41, .	4.2	6
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