

Saeed Shirazian

List of Publications by Year in descending order

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222
papers

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citations

46918

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times ranked

4700
citing authors

#	ARTICLE	IF	CITATIONS
1	A new insight into catalytic ozonation of sulfasalazine antibiotic by plasma-treated limonite nanostructures: Experimental, modeling and mechanism. <i>Chemical Engineering Journal</i> , 2022, 428, 131230.	6.6	43
2	Bio-based 3D dendritic silica nanosphere: A green superior adsorbent. <i>Journal of Cleaner Production</i> , 2022, 335, 130204.	4.6	10
3	Experimental analysis and thermodynamic modelling of lenalidomide solubility in supercritical carbon dioxide. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103821.	2.3	24
4	Challenges and opportunities in modelling wet granulation in pharmaceutical industry – A critical review. <i>Powder Technology</i> , 2022, 403, 117380.	2.1	31
5	A molecularly enhanced proof of concept for targeting cocrystals at molecular scale in continuous pharmaceuticals cocrystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	0
6	Functionalized pollen-like mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110531.	2.2	26
7	Measuring salsalate solubility in supercritical carbon dioxide: Experimental and thermodynamic modelling. <i>Journal of Chemical Thermodynamics</i> , 2021, 152, 106271.	1.0	37
8	Computational modelling of separation and purification of vanillin using microporous membranes. <i>Journal of Molecular Liquids</i> , 2021, 323, 114606.	2.3	3
9	Molecular dynamics simulation of novel diamino-functionalized hollow mesosilica spheres for adsorption of dyes from synthetic wastewater. <i>Journal of Molecular Liquids</i> , 2021, 322, 114812.	2.3	65
10	Artificial intelligence simulation of suspended sediment load with different membership functions of ANFIS. <i>Neural Computing and Applications</i> , 2021, 33, 6819-6833.	3.2	22
11	Thermodynamic study on solubility of brain tumor drug in supercritical solvent: Temozolomide case study. <i>Journal of Molecular Liquids</i> , 2021, 321, 114926.	2.3	28
12	Supercritical Process for Preparation of Nanomedicine: Oxaprozin Case Study. <i>Chemical Engineering and Technology</i> , 2021, 44, 208-212.	0.9	16
13	Design and optimization of a hybrid process based on hollow-fiber membrane/coagulation for wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2021, 28, 8235-8245.	2.7	12
14	Preparation of COOH-KCC-1/polyamide 6 composite by in situ ring-opening polymerization: synthesis, characterization, and Cd(II) adsorption study. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104683.	3.3	39
15	Chloroquine (antimalaria medication with anti SARS-CoV activity) solubility in supercritical carbon dioxide. <i>Journal of Molecular Liquids</i> , 2021, 322, 114539.	2.3	31
16	Influence of machine learning membership functions and degree of membership function on each input parameter for simulation of reactors. <i>Scientific Reports</i> , 2021, 11, 1891.	1.6	19
17	High performance ozone based advanced oxidation processes catalyzed with novel argon plasma treated iron oxyhydroxide hydrate for phenazopyridine degradation. <i>Scientific Reports</i> , 2021, 11, 964.	1.6	22
18	A novel and facile green synthesis method to prepare LDH/MOF nanocomposite for removal of Cd(II) and Pb(II). <i>Scientific Reports</i> , 2021, 11, 1609.	1.6	67

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19	Controlled release evaluation of paracetamol loaded amine functionalized mesoporous silica KCC1 compared to microcrystalline cellulose based tablets. <i>Scientific Reports</i> , 2021, 11, 535.	1.6	15
20	Pressure and temperature predictions of Al ₂ O ₃ /water nanofluid flow in a porous pipe for different nanoparticles volume fractions: combination of CFD and ACOFIS. <i>Scientific Reports</i> , 2021, 11, 60.	1.6	10
21	Experimental and thermodynamic modeling decitabine anti cancer drug solubility in supercritical carbon dioxide. <i>Scientific Reports</i> , 2021, 11, 1075.	1.6	24
22	Intensification of CO ₂ absorption using MDEA-based nanofluid in a hollow fibre membrane contactor. <i>Scientific Reports</i> , 2021, 11, 2649.	1.6	17
23	Velocity prediction of nanofluid in a heated porous pipe: DEFIS learning of CFD results. <i>Scientific Reports</i> , 2021, 11, 1209.	1.6	14
24	Synthesis of multi-application activated carbon from oak seeds by KOH activation for methylene blue adsorption and electrochemical supercapacitor electrode. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102958.	2.3	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. <i>Scientific Reports</i> , 2021, 11, 2716.	1.6	20
26	Mixed Matrix Membranes for Sustainable Electrical Energy Saving Applications. <i>ChemBioEng Reviews</i> , 2021, 8, 27-43.	2.6	12
27	Predictive thermodynamic modeling and experimental measurements on solubility of active pharmaceutical ingredient: Lornoxicam case study. <i>Journal of Molecular Liquids</i> , 2021, 326, 115285.	2.3	9
28	Evaluation of potassium glycinate, potassium lysinate, potassium sarcosinate and potassium threonate solutions in CO ₂ capture using membranes. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102979.	2.3	32
29	Oak wood ash/GO/Fe ₃ O ₄ adsorption efficiencies for cadmium and lead removal from aqueous solution: Kinetics, equilibrium and thermodynamic evaluation. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102991.	2.3	76
30	A water-stable functionalized NiCo-LDH/MOF nanocomposite: green synthesis, characterization, and its environmental application for heavy metals adsorption. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103052.	2.3	65
31	Application of artificial neural network for prediction of particle size in pharmaceutical cocrystallization using mechanochemical synthesis. <i>Neural Computing and Applications</i> , 2021, 33, 12621.	3.2	11
32	Novel bimodal micro-mesoporous Ni ₅₀ Co ₅₀ -LDH/UiO-66-NH ₂ nanocomposite for Tl(I) adsorption. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103058.	2.3	24
33	Tailoring crystal size distributions for product performance, compaction of paracetamol. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103089.	2.3	9
34	Understanding solid-state processing of pharmaceutical cocrystals via milling: Role of tablet excipients. <i>International Journal of Pharmaceutics</i> , 2021, 601, 120514.	2.6	19
35	Molecular modeling investigation on mechanism of cationic dyes removal from aqueous solutions by mesoporous materials. <i>Journal of Molecular Liquids</i> , 2021, 329, 115485.	2.3	46
36	A societal transition of MSW management in Xiamen (China) toward a circular economy through integrated waste recycling and technological digitization. <i>Environmental Pollution</i> , 2021, 277, 116741.	3.7	81

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37	Molecular dynamic simulations and quantum chemical calculations of adsorption process using amino-functionalized silica. <i>Journal of Molecular Liquids</i> , 2021, 330, 115544.	2.3	51
38	Efficient oxidation/mineralization of pharmaceutical pollutants using a novel Iron (III) oxyhydroxide nanostructure prepared via plasma technology: Experimental, modeling and DFT studies. <i>Journal of Hazardous Materials</i> , 2021, 411, 125074.	6.5	40
39	Resource recovery toward sustainability through nutrient removal from landfill leachate. <i>Journal of Environmental Management</i> , 2021, 287, 112265.	3.8	57
40	Resource recovery from landfill leachate: An experimental investigation and perspectives. <i>Chemosphere</i> , 2021, 274, 129986.	4.2	57
41	Comprehensive modelling of pharmaceutical solvation energy in different solvents. <i>Journal of Molecular Liquids</i> , 2021, 341, 117390.	2.3	6
42	Synthesis, molecular dynamics simulation and adsorption study of different pollutants on functionalized mesosilica. <i>Scientific Reports</i> , 2021, 11, 1967.	1.6	41
43	Prediction of gas velocity in two-phase flow using developed fuzzy logic system with differential evolution algorithm. <i>Scientific Reports</i> , 2021, 11, 2380.	1.6	15
44	Application of Mineral Iron-Based Natural Catalysts in Electro-Fenton Process: A Comparative Study. <i>Catalysts</i> , 2021, 11, 57.	1.6	31
45	Tenoxicam (Mobiflex) Solubility in Carbon Dioxide under Supercritical Conditions. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 990-998.	1.0	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. <i>Scientific Reports</i> , 2021, 11, 1505.	1.6	17
47	Thermal prediction of turbulent forced convection of nanofluid using computational fluid dynamics coupled genetic algorithm with fuzzy interface system. <i>Scientific Reports</i> , 2021, 11, 1308.	1.6	18
48	Predicting Air Superficial Velocity of Two-Phase Reactors Using ANFIS and CFD. <i>ACS Omega</i> , 2021, 6, 239-252.	1.6	10
49	Synthesis and characterization of novel N-methylimidazolium-functionalized KCC-1: A highly efficient anion exchanger of hexavalent chromium. <i>Chemosphere</i> , 2020, 239, 124735.	4.2	53
50	Revisiting δ^* penetration depth TM in falling film mass transfer. <i>Chemical Engineering Research and Design</i> , 2020, 155, 18-21.	2.7	4
51	Prediction of fluid pattern in a shear flow on intelligent neural nodes using ANFIS and LBM. <i>Neural Computing and Applications</i> , 2020, 32, 13313-13321.	3.2	52
52	Compartmental approach for modelling twin-screw granulation using population balances. <i>International Journal of Pharmaceutics</i> , 2020, 576, 118737.	2.6	36
53	Mesostructured Hollow Siliceous Spheres for Adsorption of Dyes. <i>Chemical Engineering and Technology</i> , 2020, 43, 392-402.	0.9	46
54	Simulation of a Bubble-Column Reactor by Three-Dimensional CFD: Multidimension- and Function-Adaptive Network-Based Fuzzy Inference System. <i>International Journal of Fuzzy Systems</i> , 2020, 22, 477-490.	2.3	27

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55	Pattern recognition of the fluid flow in a 3D domain by combination of Lattice Boltzmann and ANFIS methods. <i>Scientific Reports</i> , 2020, 10, 15908.	1.6	32
56	Computational Simulation of CO ₂ Sorption in Polymeric Membranes Using Genetic Programming. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7655-7666.	1.7	7
57	Development of high-performance hybrid ANN-finite volume scheme (ANN-FVS) for simulation of pharmaceutical continuous granulation. <i>Chemical Engineering Research and Design</i> , 2020, 163, 320-326.	2.7	33
58	Using static method to measure tolmetin solubility at different pressures and temperatures in supercritical carbon dioxide. <i>Scientific Reports</i> , 2020, 10, 19595.	1.6	29
59	CFD approach for simulation of API release from solid dosage formulations. <i>Journal of Molecular Liquids</i> , 2020, 317, 113899.	2.3	7
60	Theoretical investigations on the effect of absorbent type on carbon dioxide capture in hollow-fiber membrane contactors. <i>PLoS ONE</i> , 2020, 15, e0236367.	1.1	27
61	Modification of polyethersulfone membrane using MWCNT-NH ₂ nanoparticles and its application in the separation of azeotropic solutions by means of pervaporation. <i>PLoS ONE</i> , 2020, 15, e0236529.	1.1	35
62	Measuring solubility of a chemotherapy-anti cancer drug (busulfan) in supercritical carbon dioxide. <i>Journal of Molecular Liquids</i> , 2020, 317, 113954.	2.3	47
63	Computational fluid dynamics simulation of NO ₂ molecular sequestration from a gaseous stream using NaOH liquid absorbent through porous membrane contactors. <i>Journal of Molecular Liquids</i> , 2020, 313, 113584.	2.3	36
64	Simulation of liquid flow with a combination artificial intelligence flow field and Adams's Bashforth method. <i>Scientific Reports</i> , 2020, 10, 16719.	1.6	4
65	Functional input and membership characteristics in the accuracy of machine learning approach for estimation of multiphase flow. <i>Scientific Reports</i> , 2020, 10, 17793.	1.6	29
66	Incomplete cocrystallization of ibuprofen and nicotinamide and its interplay with formation of ibuprofen dimer and/or nicotinamide dimer: A thermodynamic analysis based on DFT data. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119992.	2.6	8
67	Thermodynamic modelling and experimental validation of pharmaceutical solubility in supercritical solvent. <i>Journal of Molecular Liquids</i> , 2020, 319, 114120.	2.3	36
68	Influence of number of membership functions on prediction of membrane systems using adaptive network based fuzzy inference system (ANFIS). <i>Scientific Reports</i> , 2020, 10, 16110.	1.6	33
69	A thermokinetic model for penetrant-induced swelling in polymeric membranes: Water in polybenzimidazole membranes. <i>Journal of Molecular Liquids</i> , 2020, 317, 114000.	2.3	3
70	Prediction of fluid interface between dispersed and matrix phases by Lattice Boltzmann-adaptive network-based fuzzy inference system. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2020, , 1-13.	1.8	1
71	Loxoprofen Solubility in Supercritical Carbon Dioxide: Experimental and Modeling Approaches. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4613-4620.	1.0	35
72	Bubbly flow prediction with randomized neural cells artificial learning and fuzzy systems based on ϵ -turbulence and Eulerian model data set. <i>Scientific Reports</i> , 2020, 10, 13837.	1.6	22

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73	Molecular investigation into the effect of carbon nanotubes interaction with CO ₂ in molecular separation using microporous polymeric membranes. <i>Scientific Reports</i> , 2020, 10, 13285.	1.6	12
74	Molecular separation of ibuprofen and 4-isobutylacetophenone using octanol organic solution by porous polymeric membranes. <i>PLoS ONE</i> , 2020, 15, e0237271.	1.1	7
75	Developing Intelligent Algorithm as a Machine Learning Overview over the Big Data Generated by Euler's Euler Method To Simulate Bubble Column Reactor Hydrodynamics. <i>ACS Omega</i> , 2020, 5, 20558-20566.	1.6	35
76	Computational modeling of drug separation from aqueous solutions using octanol organic solution in membranes. <i>Scientific Reports</i> , 2020, 10, 19133.	1.6	6
77	Prediction of turbulence eddy dissipation of water flow in a heated metal foam tube. <i>Scientific Reports</i> , 2020, 10, 19280.	1.6	33
78	High-performance hybrid modeling chemical reactors using differential evolution based fuzzy inference system. <i>Scientific Reports</i> , 2020, 10, 21304.	1.6	34
79	Multidimensional machine learning algorithms to learn liquid velocity inside a cylindrical bubble column reactor. <i>Scientific Reports</i> , 2020, 10, 21502.	1.6	10
80	Computational Modeling of Transport in Porous Media Using an Adaptive Network-Based Fuzzy Inference System. <i>ACS Omega</i> , 2020, 5, 30826-30835.	1.6	28
81	Characterization of Simultaneous Evolution of Size and Composition Distributions Using Generalized Aggregation Population Balance Equation. <i>Pharmaceutics</i> , 2020, 12, 1152.	2.0	16
82	Fluid Velocity Prediction Inside Bubble Column Reactor Using ANFIS Algorithm Based on CFD Input Data. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7487-7498.	1.7	29
83	Hierarchical multi-shell hollow micro-meso-macroporous silica for Cr(VI) adsorption. <i>Scientific Reports</i> , 2020, 10, 9788.	1.6	33
84	Mathematical modelling and simulation of nitrite hydrogenation in a membrane microreactor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21555-21566.	3.8	2
85	Computational investigation on the effect of [Bmim][BF ₄] ionic liquid addition to MEA alkanolamine absorbent for enhancing CO ₂ mass transfer inside membranes. <i>Journal of Molecular Liquids</i> , 2020, 314, 113635.	2.3	37
86	Computational study on SO ₂ molecular separation applying novel EMISE ionic liquid and DMA aromatic amine solution inside microporous membranes. <i>Journal of Molecular Liquids</i> , 2020, 313, 113531.	2.3	21
87	Prediction of thermal distribution and fluid flow in the domain with multi-solid structures using Cubic-Interpolated Pseudo-Particle model. <i>PLoS ONE</i> , 2020, 15, e0233850.	1.1	34
88	Experimental Solubility Measurements of Fenoprofen in Supercritical Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1425-1434.	1.0	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. <i>ACS Omega</i> , 2020, 5, 16284-16291.	1.6	37
90	Thermal and Flow Visualization of a Square Heat Source in a Nanofluid Material with a Cubic-Interpolated Pseudo-particle. <i>ACS Omega</i> , 2020, 5, 17658-17663.	1.6	34

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91	Modelling tyramine extraction from wastewater using a non-dispersive solvent extraction process. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39068-39076.	2.7	32
92	Novel mesoporous crumpled paper-like silica balls. <i>Materials Letters</i> , 2020, 281, 128230.	1.3	19
93	Prediction of Nanofluid Temperature Inside the Cavity by Integration of Grid Partition Clustering Categorization of a Learning Structure with the Fuzzy System. <i>ACS Omega</i> , 2020, 5, 3571-3578.	1.6	40
94	Effect of graphene oxide on modifying polyethersulfone membrane performance and its application in wastewater treatment. <i>Scientific Reports</i> , 2020, 10, 2049.	1.6	122
95	Preparation and optimization of activated nano-carbon production using physical activation by water steam from agricultural wastes. <i>RSC Advances</i> , 2020, 10, 1463-1475.	1.7	56
96	Physical adsorption of CO ₂ in biomass at atmospheric pressure and ambient temperature. <i>Environmental Chemistry Letters</i> , 2020, 18, 1423-1431.	8.3	18
97	Meso-architected siliceous hollow quasi-capsule. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 390-401.	5.0	43
98	A hierarchical LDH/MOF nanocomposite: single, simultaneous and consecutive adsorption of a reactive dye and Cr(VI). <i>Dalton Transactions</i> , 2020, 49, 5323-5335.	1.6	93
99	Application of adaptive network-based fuzzy inference system (ANFIS) in the numerical investigation of Cu/water nanofluid convective flow. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100793.	2.8	23
100	A molecular scale analysis of TEMPO-oxidation of native cellulose molecules. <i>Heliyon</i> , 2020, 6, e05776.	1.4	16
101	Mass transfer modeling absorption using nanofluids in porous polymeric membranes. <i>Journal of Molecular Liquids</i> , 2020, 318, 114115.	2.3	29
102	Prediction of Nanofluid Characteristics and Flow Pattern on Artificial Differential Evolution Learning Nodes and Fuzzy Framework. <i>ACS Omega</i> , 2020, 5, 22091-22098.	1.6	15
103	gbell Learning function along with Fuzzy Mechanism in Prediction of Two-Phase Flow. <i>ACS Omega</i> , 2020, 5, 25882-25890.	1.6	6
104	ANFIS grid partition framework with difference between two sigmoidal membership functions structure for validation of nanofluid flow. <i>Scientific Reports</i> , 2020, 10, 15395.	1.6	34
105	Liquid temperature prediction in bubbly flow using ant colony optimization algorithm in the fuzzy inference system as a trainer. <i>Scientific Reports</i> , 2020, 10, 21884.	1.6	11
106	Evaluation of product of two sigmoidal membership functions (psigmf) as an ANFIS membership function for prediction of nanofluid temperature. <i>Scientific Reports</i> , 2020, 10, 22337.	1.6	13
107	Mechanistic modeling and numerical simulation of axial flow catalytic reactor for naphtha reforming unit. <i>PLoS ONE</i> , 2020, 15, e0242343.	1.1	9
108	Microcrystalline cellulose, lactose and lignin blends: Process mapping of dry granulation via roll compaction. <i>Powder Technology</i> , 2019, 341, 38-50.	2.1	73

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109	Biofuel types and membrane separation. <i>Environmental Chemistry Letters</i> , 2019, 17, 1-18.	8.3	94
110	Numerical Simulation of Acetone Stripping from Water in a Microchannel Device. <i>Chemical Engineering and Technology</i> , 2019, 42, 2358-2364.	0.9	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. <i>Journal of Molecular Liquids</i> , 2019, 294, 111617.	2.3	52
112	Applicability of BaTiO ₃ /graphene oxide (GO) composite for enhanced photodegradation of methylene blue (MB) in synthetic wastewater under UV-vis irradiation. <i>Environmental Pollution</i> , 2019, 255, 113182.	3.7	92
113	Application of lignin in controlled release: development of predictive model based on artificial neural network for API release. <i>Cellulose</i> , 2019, 26, 6165-6178.	2.4	71
114	Design of Controlled Release System for Paracetamol Based on Modified Lignin. <i>Polymers</i> , 2019, 11, 1059.	2.0	75
115	Mass transfer through PDMS/zeolite 4A MMMs for hydrogen separation: Molecular dynamics and grand canonical Monte Carlo simulations. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104259.	2.9	25
116	Multi-dimensional population balance modelling of pharmaceutical formulations for continuous twin-screw wet granulation: Determination of liquid distribution. <i>International Journal of Pharmaceutics</i> , 2019, 566, 352-360.	2.6	51
117	Development of Hybrid ANFIS-CFD Model for Design and Optimization of Membrane Separation of Benzoic Acid. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019, 44, 285-293.	2.4	3
118	Sorption in mixed matrix membranes: Experimental and molecular dynamic simulation and Grand Canonical Monte Carlo method. <i>Journal of Molecular Liquids</i> , 2019, 282, 566-576.	2.3	27
119	Direct Leaching of Low-Grade Zinc Oxide Ore Containing High Amounts of Iron and Manganese. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 1371-1380.	0.7	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. <i>Journal of Hazardous Materials</i> , 2019, 371, 146-155.	6.5	98
122	ANN-Kriging hybrid model for predicting carbon and inorganic phosphorus recovery in hydrothermal carbonization. <i>Waste Management</i> , 2019, 85, 242-252.	3.7	35
123	Shell-in-shell monodispersed triamine-functionalized SiO ₂ hollow microspheres with micro-mesostructured shells for highly efficient removal of heavy metals from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102832.	3.3	43
124	ANFIS pattern for molecular membranes separation optimization. <i>Journal of Molecular Liquids</i> , 2019, 274, 470-476.	2.3	100
125	Cellulose Acetate Polymeric Membrane Fabrication by Nonsolvent-Induced Phase Separation Process: Determination of Velocities of Individual Components. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019, 44, 71-80.	2.4	3
126	Effect of lignin on the release rate of acetylsalicylic acid tablets. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 354-359.	3.6	87

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127	Lignin-chitosan blend for methylene blue removal: Adsorption modeling. Journal of Molecular Liquids, 2019, 274, 778-791.	2.3	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.	2.1	82
129	Liquid-phase chemical reactors: Development of 3D hybrid model based on CFD-adaptive network-based fuzzy inference system. Canadian Journal of Chemical Engineering, 2019, 97, 1676-1684.	0.9	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.	0.9	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.	2.4	14
132	Molecular-level understanding of supported ionic liquid membranes for gas separation. Journal of Molecular Liquids, 2018, 262, 230-236.	2.3	19
133	Contaminant uptake by polymeric passive samplers: A modeling study with experimental validation. Chemical Engineering Research and Design, 2018, 129, 231-236.	2.7	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.	2.3	14
135	Simulation of Nonporous Polymeric Membranes Using CFD for Bioethanol Purification. Macromolecular Theory and Simulations, 2018, 27, 1700084.	0.6	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.	3.2	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.	0.7	3
138	A priority supposition for estimation of time-dependent changes in thickness and weight of polymeric flat sheet membranes fabricated by the nonsolvent induced phase separation (<sc>NIPS</sc>) technique. Advances in Polymer Technology, 2018, 37, 1963-1969.	0.8	3
139	Investigation into Ethanol Purification Using Polymeric Membranes and a Pervaporation Process. Chemical Engineering and Technology, 2018, 41, 278-284.	0.9	13
140	Regime-separated approach for population balance modelling of continuous wet granulation of pharmaceutical formulations. Powder Technology, 2018, 325, 420-428.	2.1	20
141	Mathematical Model for Numerical Simulation of Organic Compound Recovery Using Membrane Separation. Chemical Engineering and Technology, 2018, 41, 345-352.	0.9	26
142	Gas permeation prediction through polymeric membranes using compressible regular solution theory. International Journal of Hydrogen Energy, 2018, 43, 22357-22364.	3.8	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.	1.4	11
144	Theoretical Study of Moisture-Pretreated Lithium as Potential Material for Natural Gas Upgrading. Industrial & Engineering Chemistry Research, 2018, , .	1.8	3

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145	Quantum chemical calculations and molecular modeling for methylene blue removal from water by a lignin-chitosan blend. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 2065-2075.	3.6	25
146	Estimating CH ₄ and CO ₂ solubilities in ionic liquids using computational intelligence approaches. <i>Journal of Molecular Liquids</i> , 2018, 271, 661-669.	2.3	60
147	Computational Simulation of Mass Transfer in Molecular Separation Using Microporous Polymeric Membranes. <i>Chemical Engineering and Technology</i> , 2018, 41, 1975-1981.	0.9	8
148	Development of a 3D Hybrid Intelligent-Mechanistic Model for Simulation of Multiphase Chemical Reactors. <i>Chemical Engineering and Technology</i> , 2018, 41, 1982-1993.	0.9	14
149	Predictive construction of phase diagram of ternary solutions containing polymer/solvent/nonsolvent using modified Flory-Huggins model. <i>Journal of Molecular Liquids</i> , 2018, 263, 282-287.	2.3	30
150	Organic solvent removal by pervaporation membrane technology: experimental and simulation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 19818-19825.	2.7	20
151	Molecular modeling investigation on mechanism of phenol removal from aqueous media by single- and multi-walled carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2018, 271, 24-30.	2.3	24
152	Development of hybrid models for prediction of gas permeation through FS/POSS/PDMS nanocomposite membranes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17283-17294.	3.8	46
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