

Saeed Shirazian

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219
papers

5,682
citations

39
h-index

61
g-index

224
ext. papers

6,746
ext. citations

5.1
avg, IF

6.99
L-index

#	Paper	IF	Citations
219	Bio-based 3D dendritic silica nanosphere: A green superior adsorbent. <i>Journal of Cleaner Production</i> , 2022 , 335, 130204	10.3	2
218	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	14.7	14
217	Experimental analysis and thermodynamic modelling of lenalidomide solubility in supercritical carbon dioxide. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103821	5.9	3
216	Challenges and opportunities in modelling wet granulation in pharmaceutical industry [A critical review]. <i>Powder Technology</i> , 2022 , 117380	5.2	5
215	Predicting Air Superficial Velocity of Two-Phase Reactors Using ANFIS and CFD. <i>ACS Omega</i> , 2021 , 6, 239-252	3.9	7
214	Predictive thermodynamic modeling and experimental measurements on solubility of active pharmaceutical ingredient: Lornoxicam case study. <i>Journal of Molecular Liquids</i> , 2021 , 326, 115285	6	7
213	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	5.9	12
212	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	5.9	38
211	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	5.9	30
210	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	4.8	5
209	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	5.9	16
208	Tailoring crystal size distributions for product performance, compaction of paracetamol. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103089	5.9	3
207	Understanding solid-state processing of pharmaceutical cocrystals via milling: Role of tablet excipients. <i>International Journal of Pharmaceutics</i> , 2021 , 601, 120514	6.5	8
206	Molecular modeling investigation on mechanism of cationic dyes removal from aqueous solutions by mesoporous materials. <i>Journal of Molecular Liquids</i> , 2021 , 329, 115485	6	21
205	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	9.3	28
204	Molecular dynamic simulations and quantum chemical calculations of adsorption process using amino-functionalized silica. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115544	6	19
203	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	12.8	25

202	Resource recovery toward sustainability through nutrient removal from landfill leachate. <i>Journal of Environmental Management</i> , 2021 , 287, 112265	7.9	17
201	Functionalized pollen-like mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2021 , 310, 110531	5.3	21
200	Measuring salsalate solubility in supercritical carbon dioxide: Experimental and thermodynamic modelling. <i>Journal of Chemical Thermodynamics</i> , 2021 , 152, 106271	2.9	24
199	Computational modelling of separation and purification of vanillin using microporous membranes. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114606	6	1
198	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	6	34
197	Artificial intelligence simulation of suspended sediment load with different membership functions of ANFIS. <i>Neural Computing and Applications</i> , 2021 , 33, 6819-6833	4.8	17
196	Thermodynamic study on solubility of brain tumor drug in supercritical solvent: Temozolomide case study. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114926	6	13
195	Supercritical Process for Preparation of Nanomedicine: Oxaprozin Case Study. <i>Chemical Engineering and Technology</i> , 2021 , 44, 208-212	2	6
194	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	5.1	4
193	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	6.8	26
192	Chloroquine (antimalaria medication with anti SARS-CoV activity) solubility in supercritical carbon dioxide. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114539	6	14
191	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	4.9	9
190	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	4.9	7
189	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	4.9	24
188	Controlled release evaluation of paracetamol loaded amine functionalized mesoporous silica KCC1 compared to microcrystalline cellulose based tablets. <i>Scientific Reports</i> , 2021 , 11, 535	4.9	6
187	Pressure and temperature predictions of ALO/water nanofluid flow in a porous pipe for different nanoparticles volume fractions: combination of CFD and ACOFIS. <i>Scientific Reports</i> , 2021 , 11, 60	4.9	6
186	Experimental and thermodynamic modeling decitabine anti cancer drug solubility in supercritical carbon dioxide. <i>Scientific Reports</i> , 2021 , 11, 1075	4.9	11
185	Intensification of CO absorption using MDEA-based nanofluid in a hollow fibre membrane contactor. <i>Scientific Reports</i> , 2021 , 11, 2649	4.9	7

184	Velocity prediction of nanofluid in a heated porous pipe: DEFIS learning of CFD results. <i>Scientific Reports</i> , 2021 , 11, 1209	4.9	7
183	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	5.9	22
182	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	4.9	7
181	Mixed Matrix Membranes for Sustainable Electrical Energy-Saving Applications. <i>ChemBioEng Reviews</i> , 2021 , 8, 27-43	5.2	9
180	Resource recovery from landfill leachate: An experimental investigation and perspectives. <i>Chemosphere</i> , 2021 , 274, 129986	8.4	17
179	Comprehensive modelling of pharmaceutical solvation energy in different solvents. <i>Journal of Molecular Liquids</i> , 2021 , 341, 117390	6	2
178	Synthesis, molecular dynamics simulation and adsorption study of different pollutants on functionalized mesosilica. <i>Scientific Reports</i> , 2021 , 11, 1967	4.9	16
177	Prediction of gas velocity in two-phase flow using developed fuzzy logic system with differential evolution algorithm. <i>Scientific Reports</i> , 2021 , 11, 2380	4.9	6
176	Application of Mineral Iron-Based Natural Catalysts in Electro-Fenton Process: A Comparative Study. <i>Catalysts</i> , 2021 , 11, 57	4	14
175	Tenoxicam (Mobiflex) Solubility in Carbon Dioxide under Supercritical Conditions. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 990-998	2.8	13
174	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	4.9	4
173	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	4.9	10
172	Computational Modeling of Transport in Porous Media Using an Adaptive Network-Based Fuzzy Inference System. <i>ACS Omega</i> , 2020 , 5, 30826-30835	3.9	13
171	Characterization of Simultaneous Evolution of Size and Composition Distributions Using Generalized Aggregation Population Balance Equation. <i>Pharmaceutics</i> , 2020 , 12,	6.4	10
170	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	2.5	22
169	Hierarchical multi-shell hollow micro-meso-macroporous silica for Cr(VI) adsorption. <i>Scientific Reports</i> , 2020 , 10, 9788	4.9	26
168	Mathematical modelling and simulation of nitrite hydrogenation in a membrane microreactor. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 21555-21566	6.7	1
167	Computational investigation on the effect of [Bmim][BF4] ionic liquid addition to MEA alkanolamine absorbent for enhancing CO ₂ mass transfer inside membranes. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113635	6	20

166	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 ⁶		17
165	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	3.7	20
164	Experimental Solubility Measurements of Fenoprofen in Supercritical Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1425-1434	2.8	27
163	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 ^{3.9}		31
162	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	3.9	20
161	Modelling tyramine extraction from wastewater using a non-dispersive solvent extraction process. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 39068-39076	5.1	21
160	Novel mesoporous crumpled paper-like silica balls. <i>Materials Letters</i> , 2020 , 281, 128230	3.3	17
159	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	3.9	39
158	Effect of graphene oxide on modifying polyethersulfone membrane performance and its application in wastewater treatment. <i>Scientific Reports</i> , 2020 , 10, 2049	4.9	56
157	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	3.7	31
156	Physical adsorption of CO ₂ in biomass at atmospheric pressure and ambient temperature. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1423-1431	13.3	7
155	Meso-architected siliceous hollow quasi-capsule. <i>Journal of Colloid and Interface Science</i> , 2020 , 570, 390-401	9.3	41
154	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	4.3	55
153	Mechanistic modeling and numerical simulation of axial flow catalytic reactor for naphtha reforming unit. <i>PLoS ONE</i> , 2020 , 15, e0242343	3.7	5
152	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 ^{5.6}		13
151	A molecular scale analysis of TEMPO-oxidation of native cellulose molecules. <i>Heliyon</i> , 2020 , 6, e05776	3.6	4
150	Mass transfer modeling absorption using nanofluids in porous polymeric membranes. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114115	6	17
149	Prediction of Nanofluid Characteristics and Flow Pattern on Artificial Differential Evolution Learning Nodes and Fuzzy Framework. <i>ACS Omega</i> , 2020 , 5, 22091-22098	3.9	11

148	gbell Learning function along with Fuzzy Mechanism in Prediction of Two-Phase Flow. <i>ACS Omega</i> , 2020 , 5, 25882-25890	3.9	6
147	ANFIS grid partition framework with difference between two sigmoidal membership functions structure for validation of nanofluid flow. <i>Scientific Reports</i> , 2020 , 10, 15395	4.9	25
146	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	4.9	8
145	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	4.9	10
144	Revisiting Penetration depth in falling film mass transfer. <i>Chemical Engineering Research and Design</i> , 2020 , 155, 18-21	5.5	4
143	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	4.8	39
142	Compartmental approach for modelling twin-screw granulation using population balances. <i>International Journal of Pharmaceutics</i> , 2020 , 576, 118737	6.5	21
141	Mesostructured Hollow Siliceous Spheres for Adsorption of Dyes. <i>Chemical Engineering and Technology</i> , 2020 , 43, 392-402	2	39
140	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	3.6	22
139	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	4.9	19
138	Computational Simulation of CO ₂ Sorption in Polymeric Membranes Using Genetic Programming. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 7655-7666	2.5	5
137	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	5.5	15
136	Using static method to measure tolmetin solubility at different pressures and temperatures in supercritical carbon dioxide. <i>Scientific Reports</i> , 2020 , 10, 19595	4.9	20
135	CFD approach for simulation of API release from solid dosage formulations. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113899	6	3
134	Theoretical investigations on the effect of absorbent type on carbon dioxide capture in hollow-fiber membrane contactors. <i>PLoS ONE</i> , 2020 , 15, e0236367	3.7	12
133	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	3.7	12
132	Measuring solubility of a chemotherapy-anti cancer drug (busulfan) in supercritical carbon dioxide. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113954	6	31
131	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	6	21

130	Simulation of liquid flow with a combination artificial intelligence flow field and Adams-Bashforth method. <i>Scientific Reports</i> , 2020 , 10, 16719	4.9	3
129	Functional input and membership characteristics in the accuracy of machine learning approach for estimation of multiphase flow. <i>Scientific Reports</i> , 2020 , 10, 17793	4.9	15
128	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. <i>International Journal of Pharmaceutics</i> , 2020 , 591, 119992	6.5	6
127	Thermodynamic modelling and experimental validation of pharmaceutical solubility in supercritical solvent. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114120	6	19
126	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	4.9	14
125	A thermokinetic model for penetrant-induced swelling in polymeric membranes: Water in polybenzimidazole membranes. <i>Journal of Molecular Liquids</i> , 2020 , 317, 114000	6	2
124	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	2	1
123	Loxoprofen Solubility in Supercritical Carbon Dioxide: Experimental and Modeling Approaches. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 4613-4620	2.8	24
122	Bubbly flow prediction with randomized neural cells artificial learning and fuzzy systems based on k- ϵ turbulence and Eulerian model data set. <i>Scientific Reports</i> , 2020 , 10, 13837	4.9	17
121	Molecular investigation into the effect of carbon nanotubes interaction with CO in molecular separation using microporous polymeric membranes. <i>Scientific Reports</i> , 2020 , 10, 13285	4.9	9
120	Molecular separation of ibuprofen and 4-isobutylacetophenone using octanol organic solution by porous polymeric membranes. <i>PLoS ONE</i> , 2020 , 15, e0237271	3.7	4
119	Developing Intelligent Algorithm as a Machine Learning Overview over the Big Data Generated by Euler-Euler Method To Simulate Bubble Column Reactor Hydrodynamics. <i>ACS Omega</i> , 2020 , 5, 20558-20566	3.0	22
118	Computational modeling of drug separation from aqueous solutions using octanol organic solution in membranes. <i>Scientific Reports</i> , 2020 , 10, 19133	4.9	4
117	Prediction of turbulence eddy dissipation of water flow in a heated metal foam tube. <i>Scientific Reports</i> , 2020 , 10, 19280	4.9	20
116	High-performance hybrid modeling chemical reactors using differential evolution based fuzzy inference system. <i>Scientific Reports</i> , 2020 , 10, 21304	4.9	16
115	Multidimensional machine learning algorithms to learn liquid velocity inside a cylindrical bubble column reactor. <i>Scientific Reports</i> , 2020 , 10, 21502	4.9	7
114	Synthesis and characterization of novel N-methylimidazolium-functionalized KCC-1: A highly efficient anion exchanger of hexavalent chromium. <i>Chemosphere</i> , 2020 , 239, 124735	8.4	44
113	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	6	45

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	9.3	54
111	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	5.5	56
110	Design of Controlled Release System for Paracetamol Based on Modified Lignin. <i>Polymers</i> , 2019 , 11,	4.5	58
109	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	5.8	16
108	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	6.5	37
107	Development of Hybrid ANFIS-FFD Model for Design and Optimization of Membrane Separation of Benzoic Acid. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019 , 44, 285-293	3.8	2
106	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	6	20
105	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	1.2	4
104	Organic/Silica Nanocomposite Membranes Applicable to Green Chemistry 2019 , 629-652		1
103	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	12.8	63
102	Microcrystalline cellulose, lactose and lignin blends: Process mapping of dry granulation via roll compaction. <i>Powder Technology</i> , 2019 , 341, 38-50	5.2	63
101	Biofuel types and membrane separation. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1-18	13.3	68
100	Numerical Simulation of Acetone Stripping from Water in a Microchannel Device. <i>Chemical Engineering and Technology</i> , 2019 , 42, 2358-2364	2	4
99	ANN-Kriging hybrid model for predicting carbon and inorganic phosphorus recovery in hydrothermal carbonization. <i>Waste Management</i> , 2019 , 85, 242-252	8.6	24
98	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	6.8	37
97	ANFIS pattern for molecular membranes separation optimization. <i>Journal of Molecular Liquids</i> , 2019 , 274, 470-476	6	53
96	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	3.8	3
95	Effect of lignin on the release rate of acetylsalicylic acid tablets. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 354-359	7.9	73

94	Lignin-chitosan blend for methylene blue removal: Adsorption modeling. <i>Journal of Molecular Liquids</i> , 2019 , 274, 778-791	6	53
93	Developing ANN-Kriging hybrid model based on process parameters for prediction of mean residence time distribution in twin-screw wet granulation. <i>Powder Technology</i> , 2019 , 343, 568-577	5.2	63
92	Liquid-phase chemical reactors: Development of 3D hybrid model based on CFD-adaptive network-based fuzzy inference system. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1676-1684	2.3	39
91	SO ₂ Removal from Gas Streams by Ammonia Scrubbing: Process Optimization by Response Surface Methodology. <i>Chemical Engineering and Technology</i> , 2019 , 42, 45-52	2	14
90	Gas-Liquid Phase Recirculation in Bubble Column Reactors: Development of a Hybrid Model Based on Local CFD Adaptive Neuro-Fuzzy Inference System (ANFIS). <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019 , 44, 29-42	3.8	13
89	Molecular-level understanding of supported ionic liquid membranes for gas separation. <i>Journal of Molecular Liquids</i> , 2018 , 262, 230-236	6	16
88	Contaminant uptake by polymeric passive samplers: A modeling study with experimental validation. <i>Chemical Engineering Research and Design</i> , 2018 , 129, 231-236	5.5	8
87	Experimental investigation and thermodynamic modeling of amino acids partitioning in a water/ionic liquid system. <i>Journal of Molecular Liquids</i> , 2018 , 260, 386-390	6	12
86	Simulation of Nonporous Polymeric Membranes Using CFD for Bioethanol Purification. <i>Macromolecular Theory and Simulations</i> , 2018 , 27, 1700084	1.5	30
85	Topology optimization of neural networks based on a coupled genetic algorithm and particle swarm optimization techniques (c-GA/PSO-NN). <i>Neural Computing and Applications</i> , 2018 , 29, 1073-1076	4.8	9
84	Mathematical Modeling and Simulation of Nitrate Separation from Contaminated Water in a Membrane Contactor 2018 , 42, 1223-1231		3
83	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 (NIPS) technique. <i>Advances in Polymer Technology</i> , 2018 , 37, 1963-1969	1.9	3
82	Investigation into Ethanol Purification Using Polymeric Membranes and a Pervaporation Process. <i>Chemical Engineering and Technology</i> , 2018 , 41, 278-284	2	12
81	Computational Simulation of Mass Transfer in Molecular Separation Using Microporous Polymeric Membranes. <i>Chemical Engineering and Technology</i> , 2018 , 41, 1975-1981	2	8
80	Development of a 3D Hybrid Intelligent-Mechanistic Model for Simulation of Multiphase Chemical Reactors. <i>Chemical Engineering and Technology</i> , 2018 , 41, 1982-1993	2	14
79	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	6	24
78	Organic solvent removal by pervaporation membrane technology: experimental and simulation. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 19818-19825	5.1	19
77	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	6	19

76	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	6.7	41
75	Separation Performance of Nanostructured Ceramic Membranes: Analytical Model Development. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2018 , 43, 245-253	3.8	4
74	Molecular separation in liquid phase: Development of mechanistic model in membrane separation of organic compounds. <i>Journal of Molecular Liquids</i> , 2018 , 262, 336-344	6	19
73	Facilitated Dissociation of Water in the Presence of Lithium Metal at Ambient Temperature as a Requisite for Lithium-Gas Reactions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16016-16022	3.8	5
72	Regime-separated approach for population balance modelling of continuous wet granulation of pharmaceutical formulations. <i>Powder Technology</i> , 2018 , 325, 420-428	5.2	17
71	Mathematical Model for Numerical Simulation of Organic Compound Recovery Using Membrane Separation. <i>Chemical Engineering and Technology</i> , 2018 , 41, 345-352	2	24
70	Gas permeation prediction through polymeric membranes using compressible regular solution theory. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22357-22364	6.7	7
69	Continuous twin screw wet granulation: The combined effect of process parameters on residence time, particle size, and granule morphology. <i>Journal of Drug Delivery Science and Technology</i> , 2018 , 48, 319-327	4.5	10
68	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	7.9	19
67	Estimating CH ₄ and CO ₂ solubilities in ionic liquids using computational intelligence approaches. <i>Journal of Molecular Liquids</i> , 2018 , 271, 661-669	6	45
66	Using neural networks coupled with particle swarm optimization technique for mathematical modeling of air gap membrane distillation (AGMD) systems for desalination process. <i>Neural Computing and Applications</i> , 2017 , 28, 2099-2104	4.8	20
65	Prediction of carbon dioxide sorption in polymers for capture and storage feasibility analysis. <i>Chemical Engineering Research and Design</i> , 2017 , 120, 254-258	5.5	16
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