Jun Gao

List of Publications by Year in Descending Order

223 papers	3,488 citations	31 h-index	41 g-index
229 ext. papers	4,563 ext. citations	4.8 avg, IF	6.17 L-index

#	Paper	IF	Citations
223	Carbon footprint and water footprint analysis of generating synthetic natural gas from biomass. *Renewable Energy*, **2022**, 186, 780-789	8.1	1
222	Extraction and interaction insights for enhanced separation of phenolic compounds from model coal tar using a hydroxyl-functionalized ionic liquid. *Chemical Engineering Research and Design*, **2022**, 178, 567-574	5.5	1
221	Separation of isopropyl ether and acetone using ionic liquids based on quantum chemistry calculation and liquid–liquid equilibrium. *Journal of Chemical Thermodynamics*, **2022**, 167, 106715	2.9	1
220	Multiscale evaluation of the efficiently separation of phenols using a designed cationic functionalized ionic liquid based on Brønsted/Lewis coordination. *Journal of Molecular Liquids*, **2022**, 345, 117901	6	2
219	Liquid-liquid phase behavior for water + 2,2-difluoroethanol with three imidazole-based ionic liquids. *Journal of Molecular Liquids*, **2022**, 345, 117836	6	0
218	Energy-saving and environmentally friendly pervaporation-distillation hybrid process for alcohol and ester recovery from wastewater containing three binary azeotropes. *Separation and Purification Technology*, **2022**, 281, 119889	8.3	2
217	Isobaric vapour-liquid equilibrium for binary and ternary systems of isopropyl acetate, isopropyl alcohol, acetic acid and water at 101.3 kPa. *Journal of Chemical Thermodynamics*, **2022**, 165, 106662	2.9	0
216	Molecular mechanism and extraction explorations for separation of pyridine from coal pyrolysis model mixture using protic ionic liquid [Hnmp][HSO4]. *Fuel*, **2022**, 309, 122130	7.1	2
215	Process design and optimization of the efficient production of butyl acrylate by reactive azeotropic distillation/pervaporation using different feed ratios. *Journal of Cleaner Production*, **2022**, 344, 131102	10.3	1
214	Economic effect of an efficient and environmentally friendly extractive distillation/pervaporation process on the separation of ternary azeotropes with different compositions. *Journal of Cleaner Production*, **2022**, 346, 131179	10.3	0
213	Molecular mechanism and extraction performance evaluation of diethylene glycol-based DES for extraction desulfurization process of fuel oil. *Journal of Molecular Liquids*, **2022**, 353, 118785	6	0
212	Liquid-Liquid Extraction and Mechanism Exploration for Separation of Mixture 2,2,3,3-Tetrafluoro-1-propanol and Water Using Pyridine-based Ionic Liquids. *Journal of Molecular Liquids*, **2022**, 119468	6	0
211	Energy-saving investigation of pressure-swing distillation strengthening configurations for benzene/isobutanol binary azeotrope. *Separation and Purification Technology*, **2022**, 296, 121381	8.3	0
210	Intermolecular Interaction and Extraction Explorations for Separation of High-Boiling Neutral Nitrogen Compounds Using Biodegradable Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 15839-15848	8.3	1
209	Liquid-liquid equilibria for separation of benzothiophene from model fuel oil: Solvent screening and thermodynamic modeling. *Journal of Chemical Thermodynamics*, **2021**, 167, 106693	2.9	0
208	Process design and intensification for the clean separation of ternary multi-azeotropes system via special distillation coupled with reaction. *Journal of Cleaner Production*, **2021**, 328, 129520	10.3	0
207	Extraction performance evaluation and theoretical analysis of removal of phenol from oil mixture using a dual-functionalized ionic liquid: 1-hydroxyethyl-3-methylimidazolium propionate. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 1947-1953	3.5	6

206	Application of energy-saving hybrid distillation-pervaporation process for recycling organics from wastewater based on thermoeconomic and environmental analysis. *Journal of Cleaner Production*, **2021**, 294, 126297	10.3	4
205	Explorations of Liquid–liquid Phase Equilibrium for the Mixture (Isopropanol + Water) with Pyridinium-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2021**, 66, 2192-2199	2.8	3
204	A (4-fluorophenyl)(phenyl)phosphine oxide-modified epoxy resin with improved flame-retardancy, hydrophobicity, and dielectric properties. *Journal of Applied Polymer Science*, **2021**, 138, 50792	2.9	3
203	COSMO-SAC-supported evaluation of natural deep eutectic solvents for the extraction of tea polyphenols and process optimization. *Journal of Molecular Liquids*, **2021**, 328, 115406	6	10
202	Separation of n-heptane and tert-butanol by ionic liquids based on COSMO-SAC model. *Green Energy and Environment*, **2021**, 6, 380-391	5.7	6
201	Isobaric Vapor–liquid Equilibrium of Binary Systems of 1-Pentanol + Butyl Butyrate, 1-Pentanol + N-Formylmorpholine, and p-Xylene + Butyl Butyrate at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2021**, 66, 2874-2881	2.8	3
200	Temperature-enhanced pressure retarded osmosis powered by solar energy: Experimental validation, economic consideration, and potential implication. *Chemical Engineering Research and Design*, **2021**, 170, 380-388	5.5	2
199	Liquid–liquid-Phase Equilibrium for Quaternary Systems (n-Decane + 1-Tetradecene + 1-Methylnaphthalene + Sulfolane/Dimethyl Sulfoxide) for Separation of 1-Methylnaphthalene from FCC Diesel. *Journal of Chemical & Engineering Data*, **2021**, 66, 2803-2811	2.8	1
198	Extraction and multi-scale mechanism explorations for separating indole from coal tar via tetramethylguanidine-based ionic liquids. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105255	6.8	5
197	Life cycle water footprint comparison of biomass-to-hydrogen and coal-to-hydrogen processes. *Science of the Total Environment*, **2021**, 773, 145056	10.2	5
196	Design and optimization for the separation of cyclohexane-isopropanol-water using mixed extractants with thermal integration based on molecular mechanism. *Separation and Purification Technology*, **2021**, 266, 118541	8.3	4
195	Extraction of allyl alcohol from its aqueous solution using two different ionic liquids: Intermolecular interaction and liquid-liquid phase equilibrium explorations. *Journal of Molecular Liquids*, **2021**, 336, 116875	6	1
194	Comprehensive evaluation of the role of phenolate based ionic liquid on extracting pyrrole from diverse sources: A combined molecular dynamics simulation study and experiment validation. *Journal of Molecular Liquids*, **2021**, 334, 116525	6	3
193	Investigation of the flow characteristics of liquid–liquid two-phase mixing in an agitator equipped with a V-shaped horizontal baffle. *Environment, Development and Sustainability*, **2021**, 23, 2298-2313	4.5	0
192	Multi-dimensional analysis of turbulence models for immiscible liquid-liquid mixing in stirred tank based on numerical simulation. *Separation Science and Technology*, **2021**, 56, 411-424	2.5	3
191	Two isostructural Ni(II)/Co(II)-based metal-organic frameworks for selective dye adsorption and catalytic cycloaddition of CO2 with epoxides. *Chinese Chemical Letters*, **2021**, 32, 557-560	8.1	12
190	Dynamic control analysis of interconnected pressure-swing distillation process with and without heat integration for separating azeotrope. *Chinese Journal of Chemical Engineering*, **2021**, 29, 67-76	3.2	4
189	Separation of azeotropic mixture (acetone + n-heptane) by extractive distillation with intermediate and heavy boiling entrainers: Vapour-liquid equilibrium measurements and correlation. *Journal of Chemical Thermodynamics*, **2021**, 152, 106284	2.9	10

188	Simulated annealing-based optimal design of energy efficient ternary extractive dividing wall distillation process for separating benzene-isopropanol-water mixtures. *Chinese Journal of Chemical Engineering*, **2021**, 33, 203-210	3.2	5
187	Energy-saving investigation of organic material recovery from wastewater via thermal coupling extractive distillation combined with heat pump based on thermoeconomic and environmental analysis. *Chemical Engineering Research and Design*, **2021**, 146, 441-450	5.5	15
186	Measurement and Thermodynamic Modeling of Ternary Liquid–Liquid Equilibrium for Extraction of 2,6-Xylenol from Aromatic Hydrocarbon Mixtures with Different Solvents. *Journal of Chemical & Engineering Data*, **2021**, 66, 330-337	2.8	9
185	Liquid-liquid equilibrium measurements and interaction explorations for separation of azeotrope n-butyl acetate and n-butanol using three ionic liquids. *Journal of Chemical Thermodynamics*, **2021**, 155, 106349	2.9	11
184	Reply to "Comments on 'Isobaric Vapor + Liquid Equilibrium Measurements and Calculations for Using Nontraditional Models for the Association Systems of Ethyl Acetate +2-Ethylhexanoic Acid and Propyl Acetate +2-Ethylhexanoic Acid at Atmospheric Pressure'". *Journal of Chemical & Engineering Data*, **2021**, 66, 852-857	2.8	
183	Efficient recovery of benzene and n-propanol from wastewater via vapor recompression assisted extractive distillation based on techno-economic and environmental analysis. *Chemical Engineering Research and Design*, **2021**, 148, 462-472	5.5	17
182	ZIF-8-porous ionic liquids for the extraction of 2,2,3,3-tetrafluoro-1-propanol and water mixture. *New Journal of Chemistry*, **2021**, 45, 8557-8562	3.6	3
181	Construction of SAPO-34/SiO2 composite: effective catalyst for methanol to olefins reaction. *New Journal of Chemistry*, **2021**, 45, 15497-15502	3.6	1
180	Liquid–Liquid Equilibrium for Ternary Systems (Ethyl Acetate/Isopropyl Acetate + 2,2-Difluoroethanol + Water) at 298.15 and 308.15 K. *Journal of Chemical & Engineering Data*, **2021**, 66, 1399-1405	2.8	2
179	Mechanism analysis of solvent selectivity and energy-saving optimization in vapor recompression-assisted extractive distillation for separation of binary azeotrope. *Chinese Journal of Chemical Engineering*, **2021**,	3.2	1
178	Investigation of energy-saving thermally coupled extractive distillation alternatives with different liquid side-stream for a quaternary azeotropic system. *Separation and Purification Technology*, **2021**, 268, 118706	8.3	7
177	Process design, evaluation and control for separation of 2,2,3,3-tetrafluoro-1-propanol and water by extractive distillation using ionic liquid 1-ethyl-3-methylimidazolium acetate. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 3175	3.5	0
176	Multi-objective optimization of a clean, high-efficiency synthesis process of methyl-ethyl-ketone oxime from ammoximation. *Journal of Cleaner Production*, **2021**, 315, 128176	10.3	3
175	Sequential two-column batch distillation processes for separation of ternary mixture containing three binary minimum boiling point homoazeotropes. *Separation and Purification Technology*, **2021**, 270, 118826	8.3	3
174	Extraction desulphurization of fuels using ZIF-8-based porous liquid. *Fuel*, **2021**, 300, 121013	7.1	5
173	Optimal design and control of an energy-efficient triple-side-stream quaternary extractive distillation process. *Chemical Engineering and Processing: Process Intensification*, **2021**, 167, 108510	3.7	4
172	Techno-economic comparison between forward osmosis (FO) and temperature-enhanced osmotic membrane distillation (T-OMD) in agricultural fertigation. *Journal of Water Process Engineering*, **2021**, 43, 102216	6.7	
171	Separation of indole by designed ionic liquids with dual functional chemical sites: Mechanism exploration and experimental validation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105971	6.8	1

170	Energy-saving exploration and optimization of methyl alcohol–Methyl ethyl ketone–Tertbutyl alcohol separation by extractive dividing-wall distillation with ionic liquid as extractant. *Separation and Purification Technology*, **2021**, 272, 118886	8.3	7
169	Molecular mechanism and extraction performance evaluation of ionic liquids for extraction process of n-heptane/n-propanol. *Separation and Purification Technology*, **2021**, 276, 119342	8.3	5
168	Separation of the Azeotropic Mixture Methanol and Toluene Using Extractive Distillation: Entrainer Determination, Vapor-Liquid Equilibrium Measurement, and Modeling.. *ACS Omega*, **2021**, 6, 34736-34743	3.9	1
167	Performance of functionalized ionic liquid with double chemical sites for separating phenolic compounds: mechanism and liquid-liquid behavior studies. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106790	6.8	0
166	Sustainability Analysis for the Wastewater Treatment Technical Route for Coal-to-Synthetic Natural Gas Industry through Zero Liquid Discharge Versus Standard Liquid Discharge. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 8425-8435	8.3	2
165	Separation of isopropyl alcohol and isopropyl ether with ionic liquids as extractant based on quantum chemical calculation and liquid-liquid equilibrium experiment. *Separation and Purification Technology*, **2020**, 247, 116937	8.3	23
164	Energy-saving quaternary extractive distillation processes with single- or double-dividing-wall column for separation of acetone/methanol/butanone/tert-butyl alcohol. *Chemical Engineering and Processing: Process Intensification*, **2020**, 153, 107999	3.7	11
163	Energy-Efficient Process with a Decanter to Separate Toluene-Methanol-Water Ternary Azeotropic Mixtures. *Chemical Engineering and Technology*, **2020**, 43, 1276-1284	2	2
162	Optimal design and performance enhancement of heteroazeotropic and pressure-swing coupling distillation for downstream isopropanol separation. *Separation and Purification Technology*, **2020**, 242, 116836	8.3	19
161	Multiscale Exploration and Experimental Insights into Separating Neutral Heterocyclic Nitrogen Compounds Using [emim][NO3] as an Extractant. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5662-5673	8.3	24
160	Flash/distillation for separating 2-pentanone/4-heptanone/water azeotropic mixture based equilibrium data and process design. *Separation and Purification Technology*, **2020**, 242, 116790	8.3	5
159	Mechanism Analysis, Economic Optimization, and Environmental Assessment of Hybrid Extractive Distillation–Pervaporation Processes for Dehydration of n-Propanol. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4561-4571	8.3	17
158	Isobaric Vapor–Liquid Equilibrium Measurements and Calculations Using Nontraditional Models for the Association Systems of Ethyl Acetate + 2-Ethylhexanoic Acid and Propyl Acetate + 2-Ethylhexanoic Acid at Atmospheric Pressure. *Journal of Chemical & Engineering Data*, **2020**, 65, 3482-3489	2.8	4
157	Surface chemistry-dependent activity and comparative investigation on the enhanced photocatalytic performance of graphitic carbon nitride modified with various nanocarbons. *Journal of Colloid and Interface Science*, **2020**, 569, 12-21	9.3	10
156	Lithium-Lanthanide Bimetallic Metal-Organic Frameworks towards Negative Electrode Materials for Lithium-Ion Batteries. *Chemistry - A European Journal*, **2020**, 26, 5654-5661	4.8	27
155	Process Design and Comprehensive Analysis of the Ethanol Amination Process to Improve Acetonitrile Production. *Industrial & Engineering Chemistry Research*, **2020**, 59, 5047-5055	3.9	7
154	Vapour-liquid equilibrium measurements and correlation for separating azeotropic mixture (ethyl acetate + n-heptane) by extractive distillation. *Journal of Chemical Thermodynamics*, **2020**, 144, 106075	2.9	5
153	Novel Postcombustion Capture Process for CO2 from the Flue Gas of Coal-Fired Power Plants Using a Green Deep Eutectic Solvent. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2236-2245	8.3	17

152	Application of neural network algorithm in fault diagnosis of mechanical intelligence. *Mechanical Systems and Signal Processing*, **2020**, 141, 106625	7.8	67
151	Efficient One Pot Capture and Conversion of CO2 into Quinazoline-2,4(1H,3H)-diones Using Triazolium-Based Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2910-2918	8.3	18
150	Entrainers selection and vapour-liquid equilibrium measurements for separating azeotropic mixtures (ethanol + n-hexane/cyclohexane) by extractive distillation. *Journal of Chemical Thermodynamics*, **2020**, 144, 106070	2.9	8
149	Removal of Mercury (Hg(II)) from Seaweed Extracts by Electrodialysis and Process Optimization Using Response Surface Methodology. *Journal of Ocean University of China*, **2020**, 19, 135-142	1	6
148	Combining unsaturated metal sites and narrow pores within a Co(ii)-based MOF towards CO separation and transformation. *Dalton Transactions*, **2020**, 49, 2058-2062	4.3	10
147	Entrainers selection and vapour-liquid equilibrium measurements for isopropyl acetate with propyl propionate, butyl propionate, and butyl butyrate at 101.3 kPa. *Journal of Chemical Thermodynamics*, **2020**, 146, 106107	2.9	3
146	Extraction and mechanism exploration for separating cresols from coal tar by ionic liquid ethanolamine lactate. *Journal of Molecular Liquids*, **2020**, 305, 112845	6	22
145	Efficient extraction of phenol from low-temperature coal tar model oil via imidazolium-based ionic liquid and mechanism analysis. *Journal of Molecular Liquids*, **2020**, 306, 112911	6	24
144	Dynamic control analyses of eco-efficient partially heat-integrated side-stream pressure-swing distillation processes. *Separation and Purification Technology*, **2020**, 239, 116571	8.3	4
143	Control of a pressure-swing distillation process for benzene/isopropanol/water separation with and without heat integration. *Separation and Purification Technology*, **2020**, 236, 116311	8.3	12
142	Triple-column side-stream extractive distillation optimization via simulated annealing for the benzene/isopropanol/water separation. *Separation and Purification Technology*, **2020**, 236, 116303	8.3	43
141	Measurement and correlation of liquid - Liquid equilibria of three imidazolium ionic liquids with acetone and cyclohexane. *Journal of Molecular Liquids*, **2020**, 298, 111947	6	8
140	Separation of cresol from coal tar by imidazolium-based ionic liquid [Emim][SCN]: Interaction exploration and extraction experiment. *Fuel*, **2020**, 264, 116908	7.1	29
139	Liquid–liquid Equilibrium for Ternary Mixture Water + (n-Propanol/Isopropanol) + Cyclohexanone at 298.15 and 308.15 K. *Journal of Chemical & Engineering Data*, **2020**, 65, 233-238	2.8	7
138	Liquid-liquid phase equilibrium and interaction exploration for separation of azeotrope (2,2,3,3-tetrafluoro-1-propanol + water) with two imidazolium-based ionic liquids. *Journal of Molecular Liquids*, **2020**, 300, 112266	6	19
137	Separation of azeotrope 2,2,3,3-tetrafluoro-1-propanol and water: Liquid-liquid equilibrium measurements and interaction exploration. *Journal of Chemical Thermodynamics*, **2020**, 142, 106011	2.9	9
136	Separation of azeotropic mixture isopropyl alcohol + ethyl acetate by extractive distillation: Vapor-liquid equilibrium measurements and interaction exploration. *Fluid Phase Equilibria*, **2020**, 507, 112428	2.5	8
135	Insight into separation of azeotrope in wastewater to achieve cleaner production by extractive distillation and pressure-swing distillation based on phase equilibrium. *Journal of Cleaner Production*, **2020**, 276, 124213	10.3	8

134	Quantum chemical calculation, molecular dynamics simulation and process design for separation of heptane - butanol using ionic liquids extraction. *Journal of Molecular Liquids*, **2020**, 316, 113851	6	14
133	Thermal coupled extractive distillation sequences with three entrainers for the separation of azeotrope isopropyl alcohol + diisopropyl ether. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 1590-1603	3.5	5
132	Economic, Thermodynamic, and Environmental Analysis and Comparison of the Synthesis Process of Butyl Acetate. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21869-21881	3.9	3
131	Separation of isopropanol from its aqueous solution with deep eutectic solvents: liquid–liquid equilibrium measurement and thermodynamic modeling. *Brazilian Journal of Chemical Engineering*, **2020**, 37, 569-576	1.7	7
130	Separation of -Cresol from Coal Tar Model Oil Using Propylamine-Based Ionic Liquids: Extraction and Interaction Mechanism Exploration. *ACS Omega*, **2020**, 5, 23090-23098	3.9	12
129	Isobaric Vapor–Liquid Equilibrium of Binary Systems (Isopropyl Acetate/Isopropyl Alcohol + Dibutyl Ether/ Anisole) at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2020**, 65, 4387-4394	2.8	6
128	Liquid-liquid equilibrium measurements and interaction exploration for separation of isobutyl alcohol + isobutyl acetate by imidazolium-based ionic liquids with different anions. *Journal of Chemical Thermodynamics*, **2020**, 141, 105932	2.9	15
127	Quantitative structure property relationship for relative volatility of isopropanol and water mixture. *Separation Science and Technology*, **2020**, 55, 3252-3259	2.5	2
126	Response surface modeling and optimization of electrodialysis for reclamation of RO concentrates in coal-fired power plants. *Separation Science and Technology*, **2020**, 55, 2593-2603	2.5	7
125	Vapor–Liquid Equilibrium Study of Binary Mixtures of Chloroform, 2-Ethylhexanoic Acid, and Propylene Glycol Methyl Ether at Atmospheric Pressure. *Journal of Chemical & Engineering Data*, **2020**, 65, 2271-2279	2.8	2
124	Life cycle assessment and techno-economic analysis of biomass-to-hydrogen production with methane tri-reforming. *Energy*, **2020**, 199, 117488	7.9	24
123	Application of green solvent to separate the minimum boiling point azeotrope based on molecular structure prediction and experimental verification. *Separation and Purification Technology*, **2020**, 240, 116601	8.3	8
122	Multifunctional Phosphonium-Based Deep Eutectic Ionic Liquids: Insights into Simultaneous Activation of CO2 and Epoxide and Their Subsequent Cycloaddition. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16674-16681	8.3	25
121	Exploration of a heat-integrated pressure-swing distillation process with a varied-diameter column for binary azeotrope separation. *Chemical Engineering Communications*, **2019**, 206, 1689-1705	2.2	7
120	Liquid–Liquid Equilibrium of Isobutyl Acetate + Isobutyl Alcohol + Imidazolium-Based Ionic Liquids at 298.15 and 308.15 K. *Journal of Chemical & Engineering Data*, **2019**, 64, 778-783	2.8	16
119	Multiscale modeling and liquid-liquid equilibria insights for the extraction of heterocyclic nitrogen compounds from coal tar via [emim][TOS] as extractant. *Journal of Molecular Liquids*, **2019**, 277, 825-832	6	23
118	Comparison of heterogeneous azeotropic and pressure-swing distillations for separating the diisopropylether/isopropanol/water mixtures. *Chemical Engineering Research and Design*, **2019**, 143, 249-260	5.5	41
117	Vapour-liquid equilibrium measurements and extractive distillation process design for separation of azeotropic mixture (dimethyl carbonate + ethanol). *Journal of Chemical Thermodynamics*, **2019**, 133, 10-18	2.9	6

116	Deep eutectic solvents effect on vapor-liquid phase equilibrium for separation of allyl alcohol from its aqueous solution. *Journal of Molecular Liquids*, **2019**, 279, 524-529	6	15
115	Application of Mixed Solvent To Achieve an Energy-Saving Hybrid Process Including Liquid−Liquid Extraction and Heterogeneous Azeotropic Distillation. *Industrial & Engineering Chemistry Research*, **2019**, 58, 2379-2388	3.9	35
114	Research on ultrasound-assisted demulsification/dehydration for crude oil. *Ultrasonics Sonochemistry*, **2019**, 57, 185-192	8.9	31
113	Liquid−Liquid Equilibrium for Ternary Systems of N-Methylformamide + Pyrrole/Indole + Alkanes at 298.15 K: Phase Equilibrium Measurement and Correlation. *Journal of Chemical & Engineering Data*, **2019**, 64, 3085-3091	2.8	5
112	Separation of ternary mixture with double azeotropic system by a pressure-swing batch distillation integrated with quasi-continuous process. *Chemical Engineering Research and Design*, **2019**, 128, 85-94	5.5	17
111	Study on ultrasonic treatment for municipal sludge. *Ultrasonics Sonochemistry*, **2019**, 57, 29-37	8.9	41
110	Nanocage-Based Porous Metal-Organic Frameworks Constructed from Icosahedrons and Tetrahedrons for Selective Gas Adsorption. *ACS Applied Materials & Interfaces*, **2019**, 11, 20104-20109	8.5	24
109	Fluoride removal from secondary effluent of the graphite industry using electrodialysis: Optimization with response surface methodology. *Frontiers of Environmental Science and Engineering*, **2019**, 13, 1	5.8	12
108	One-step thermal processing to prepare BaCo0.95-xBi0.05ZrxO3-δ membranes for oxygen separation. *Ceramics International*, **2019**, 45, 12579-12585	5.1	14
107	Mesoporous electronegative nanocomposites of SBA-15 with CaO−CeO2 for polycarbonate depolymerization. *Journal of Materials Science*, **2019**, 54, 9442-9455	4.3	8
106	Direct reductive coupling of nitroarenes and alcohols catalysed by Co−NC/CNT@AC. *Green Chemistry*, **2019**, 21, 2129-2137	10	24
105	Comparison of pressure-swing distillation with or without crossing curved-boundary for separating a multiazeotropic ternary mixture. *Separation and Purification Technology*, **2019**, 220, 114-125	8.3	29
104	Control comparison of extractive distillation with two different solvents for separating acetone and tetrahydrofuran. *Chemical Engineering Research and Design*, **2019**, 125, 16-30	5.5	8
103	Energy-saving hybrid processes combining pressure-swing reactive distillation and pervaporation membrane for n-propyl acetate production. *Separation and Purification Technology*, **2019**, 221, 1-11	8.3	36
102	Vapor−Liquid Phase Equilibrium for Separation of Isopropanol from Its Aqueous Solution by Choline Chloride-Based Deep Eutectic Solvent Selected by COSMO-SAC Model. *Journal of Chemical & Engineering Data*, **2019**, 64, 1338-1348	2.8	12
101	Isobaric vapor-liquid equilibrium of a ternary system of ethyl acetate + propyl acetate + dimethyl sulfoxide and binary systems of ethyl acetate + dimethyl sulfoxide and propyl acetate + dimethyl sulfoxide at 101.3 kPa. *Journal of Chemical Thermodynamics*, **2019**, 135, 116-123	2.9	14
100	Separation of the mixture (isopropyl alcohol + diisopropyl ether + n-propanol): Entrainer selection, interaction exploration and vapour-liquid equilibrium measurements. *Journal of Chemical Thermodynamics*, **2019**, 135, 27-34	2.9	16
99	Novel applications of perovskite oxide via catalytic peroxymonosulfate advanced oxidation in aqueous systems for trace L-cysteine detection. *Journal of Colloid and Interface Science*, **2019**, 545, 311-318	9.3	10

98	Stability and kinetic studies of MOF-derived carbon-confined ultrafine Co catalyst for sodium borohydride hydrolysis. *International Journal of Energy Research*, **2019**, 43, 3702-3710	4.5	28
97	Preparation and electrochemical properties of biochar from pyrolysis of pomelo peel via different methods. *Fullerenes Nanotubes and Carbon Nanostructures*, **2019**, 27, 453-458	1.8	10
96	Liquid Liquid Equilibrium Data for the Separation of Acetone from n-Heptane Using Four Imidazolium-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2019**, 64, 1202-1208	2.8	9
95	Cooperative Conversion of CO2 to Cyclic Carbonates in Dual-Ionic Ammonium Salts Catalytic Medium at Ambient Temperature. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5940-5945	8.3	28
94	Rapid identification and quantification of Panax notoginseng with its adulterants by near infrared spectroscopy combined with chemometrics. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 206, 23-30	4.4	32
93	Control of an energy-saving side-stream extractive distillation process with different disturbance conditions. *Separation and Purification Technology*, **2019**, 210, 195-208	8.3	42
92	Hybrid reactive distillation using polyoctylmethylsiloxane membrane for isopentyl acetate production from mixed PVA by products. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 527-537	3.5	13
91	QSPR modeling of azeotropic temperatures and compositions for binary azeotropes containing lower alcohols using a genetic function approximation. *Chinese Journal of Chemical Engineering*, **2019**, 27, 835-844	3.2	1
90	Construction of Cu-based MOFs with enhanced hydrogenation performance by integrating open electropositive metal sites. *CrystEngComm*, **2019**, 21, 5382-5386	3.3	10
89	Separation of azeotrope 2,2,3,3-tetrafluoro-1-propanol and water by extractive distillation using ionic liquids: Vapor-liquid equilibrium measurements and interaction analysis. *Journal of Molecular Liquids*, **2019**, 292, 111424	6	19
88	Dynamics of hybrid processes with mixed solvent for recovering propylene glycol methyl ether from wastewater with different control structures. *Separation and Purification Technology*, **2019**, 229, 115815	8.3	6
87	Succinimide-Based Ionic Liquids: An Efficient and Versatile Platform for Transformation of CO2 into Quinazoline-2,4(1H,3H)-diones under Mild and Solvent-Free Conditions. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 13517-13522	8.3	12
86	Separation of azeotropic mixture (2, 2, 3, 3-Tetrafluoro-1-propanol + water) by extractive distillation: Entrainers selection and vapour-liquid equilibrium measurements. *Journal of Chemical Thermodynamics*, **2019**, 138, 205-210	2.9	13
85	Liquid□liquid Equilibrium Measurements and Correlation for Ternary Systems (Butyl Acetate + 1-Butanol + Ethylene Glycol/1,3-Propanediol/Ethanolamine) at 298.15 K. *Journal of Chemical & Engineering Data*, **2019**, 64, 3244-3249	2.8	11
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