

Yinglong Wang

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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.

247 papers	4,013 citations	34 h-index	48 g-index
260 ext. papers	5,335 ext. citations	5.2 avg, IF	6.22 L-index

#	Paper	IF	Citations
247	Insight into pressure-swing distillation from azeotropic phenomenon to dynamic control. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 318-335	5.5	179
246	Energy-saving thermally coupled ternary extractive distillation process by combining with mixed entrainer for separating ternary mixture containing bioethanol. <i>Energy</i> , 2018 , 148, 296-308	7.9	140
245	Separation of acetonitrile/methanol/benzene ternary azeotrope via triple column pressure-swing distillation. <i>Separation and Purification Technology</i> , 2016 , 169, 66-77	8.3	90
244	Separating an azeotropic mixture of toluene and ethanol via heat integration pressure swing distillation. <i>Computers and Chemical Engineering</i> , 2015 , 76, 137-149	4	81
243	A novel process design for CO ₂ capture and H ₂ S removal from the syngas using ionic liquid. <i>Journal of Cleaner Production</i> , 2019 , 213, 480-490	10.3	66
242	Design optimization and operating pressure effects in the separation of acetonitrile/methanol/water mixture by ternary extractive distillation. <i>Journal of Cleaner Production</i> , 2019 , 218, 212-224	10.3	65
241	Optimization of the composition of mixed entrainer for economic extractive distillation process in view of the separation of tetrahydrofuran/ethanol/water ternary azeotrope. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2433-2444	3.5	63
240	Heat-Integrated Pressure-Swing-Distillation Process for Separation of Tetrahydrofuran/Methanol with Different Feed Compositions. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 7186-7194	3.9	57
239	Separation of thioglycolic acid from its aqueous solution by ionic liquids: Ionic liquids selection by the COSMO-SAC model and liquid-liquid phase equilibrium. <i>Journal of Chemical Thermodynamics</i> , 2018 , 118, 263-273	2.9	57
238	Separation of azeotrope (ethanol and ethyl methyl carbonate) by different imidazolium-based ionic liquids: Ionic liquids interaction analysis and phase equilibrium measurements. <i>Journal of Molecular Liquids</i> , 2018 , 261, 89-95	6	56
237	Control of extractive distillation process for separating heterogeneous ternary azeotropic mixture via adjusting the solvent content. <i>Separation and Purification Technology</i> , 2018 , 191, 8-26	8.3	54
236	Effect of Solvent Flow Rates on Controllability of Extractive Distillation for Separating Binary Azeotropic Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12908-12919	3.9	52
235	Extractive distillation for ethanol dehydration using imidazolium-based ionic liquids as solvents. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 109, 190-198	3.7	51
234	Fast and Selective Semihydrogenation of Alkynes by Palladium Nanoparticles Sandwiched in Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3650-3657	16.4	51
233	Extractive distillation and pressure-swing distillation for THF/ethanol separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1463-1472	3.5	50
232	Liquid-liquid equilibria for ternary mixtures of water-2-propanol-1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids at 298.15K. <i>Fluid Phase Equilibria</i> , 2016 , 412, 205-210	2.5	50
231	Ionic liquid-based CO ₂ capture in power plants for low carbon emissions. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 75, 134-139	4.2	49

230	Design and control of pressure-swing distillation for azeotropes with different types of boiling behavior at different pressures. <i>Journal of Process Control</i> , 2016 , 42, 59-76	3.9	49
229	Control of Heat Integrated Pressure-Swing-Distillation Process for Separating Azeotropic Mixture of Tetrahydrofuran and Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1646-1655	3.9	48
228	Control of Extractive Distillation and Partially Heat-Integrated Pressure-Swing Distillation for Separating Azeotropic Mixture of Ethanol and Tetrahydrofuran. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 8533-8545	3.9	44
227	Application of a simulated annealing algorithm to design and optimize a pressure-swing distillation process. <i>Computers and Chemical Engineering</i> , 2016 , 95, 97-107	4	44
226	Comparison of pressure-swing distillation and extractive distillation with varied-diameter column in economics and dynamic control. <i>Journal of Process Control</i> , 2017 , 49, 9-25	3.9	43
225	Control of an energy-saving side-stream extractive distillation process with different disturbance conditions. <i>Separation and Purification Technology</i> , 2019 , 210, 195-208	8.3	42
224	Liquid-liquid equilibrium determination and thermodynamics modeling for extraction of isopropanol from its aqueous solution. <i>Fluid Phase Equilibria</i> , 2018 , 458, 40-46	2.5	42
223	Process evaluation on the separation of ethyl acetate and ethanol using extractive distillation with ionic liquid. <i>Separation and Purification Technology</i> , 2017 , 181, 44-52	8.3	40
222	Separation of azeotrope (2,2,3,3-tetrafluoro-1-propanol + water): Isobaric vapour-liquid phase equilibrium measurements and azeotropic distillation. <i>Journal of Chemical Thermodynamics</i> , 2017 , 115, 19-26	2.9	38
221	Choline chloride based deep eutectic solvents selection and liquid-liquid equilibrium for separation of dimethyl carbonate and ethanol. <i>Journal of Molecular Liquids</i> , 2019 , 275, 347-353	6	38
220	Separation of azeotrope (allyl alcohol + water): Isobaric vapour-liquid phase equilibrium measurements and extractive distillation. <i>Journal of Chemical Thermodynamics</i> , 2018 , 118, 139-146	2.9	38
219	Heat Integration and Control of a Triple-Column Pressure-Swing Distillation Process. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2150-2167	3.9	36
218	Measurement and correlation of phase equilibria for ternary systems of water-(ethanol/1-propanol)-1-decyl-3-methylimidazolium bis(trifluoromethylsulfonyl) imide at 298.15 K. <i>Fluid Phase Equilibria</i> , 2016 , 427, 340-344	2.5	36
217	Application of Mixed Solvent To Achieve an Energy-Saving Hybrid Process Including Liquid-Liquid Extraction and Heterogeneous Azeotropic Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2379-2388	3.9	35
216	Thermodynamic efficiency enhancement of pressure-swing distillation process via heat integration and heat pump technology. <i>Applied Thermal Engineering</i> , 2019 , 154, 519-529	5.8	35
215	Isobaric vapour-liquid equilibrium measurements and extractive distillation process for the azeotrope of (N,N-dimethylisopropylamine + acetone). <i>Journal of Chemical Thermodynamics</i> , 2018 , 122, 154-161	2.9	35
214	Life cycle energy consumption and GHG emissions of biomass-to-hydrogen process in comparison with coal-to-hydrogen process. <i>Energy</i> , 2020 , 191, 116588	7.9	35
213	Mechanism Analysis for Separation of Cyclohexane and tert-Butanol System via Ionic Liquids as Extractants and Process Optimization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19984-19992	8.3	34

212	Efficient Extraction of Neutral Heterocyclic Nitrogen Compounds from Coal Tar via Ionic Liquids and Its Mechanism Analysis. <i>Energy & Fuels</i> , 2018 , 32, 9358-9370	4.1	34
211	Techno-economic analysis of biomass-to-hydrogen process in comparison with coal-to-hydrogen process. <i>Energy</i> , 2019 , 185, 1063-1075	7.9	33
210	Computer-Aided Screening of Ionic Liquids As Entrainers for Separating Methyl Acetate and Methanol via Extractive Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9656-9664	3.9	32
209	A review of extractive distillation from an azeotropic phenomenon for dynamic control. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1510-1522	3.2	32
208	An improvement scheme for pressure-swing distillation with and without heat integration through an intermediate connection to achieve energy savings. <i>Computers and Chemical Engineering</i> , 2018 , 119, 439-449	4	30
207	Energy, exergy, economic and environmental (4E) analysis of an integrated process combining CO ₂ capture and storage, an organic Rankine cycle and an absorption refrigeration cycle. <i>Energy Conversion and Management</i> , 2020 , 210, 112738	10.6	29
206	Separation of cresol from coal tar by imidazolium-based ionic liquid [Emim][SCN]: Interaction exploration and extraction experiment. <i>Fuel</i> , 2020 , 264, 116908	7.1	29
205	Liquid-liquid equilibrium measurements and correlation for phase behaviors of alcohols+heptane+ILs ternary systems. <i>Journal of Chemical Thermodynamics</i> , 2017 , 106, 153-159	2.9	27
204	Control of a Ternary Extractive Distillation Process with Recycle Splitting Using a Mixed Entrainer. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 339-351	3.9	27
203	Effect of feed temperature on economics and controllability of pressure-swing distillation for separating binary azeotrope. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 110, 160-171	3.7	27
202	Separation of Dimethyl Carbonate and Methanol by Deep Eutectic Solvents: Liquid-Liquid Equilibrium Measurements and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1234-1239	2.8	26
201	Optimization of liquid-liquid extraction combined with either heterogeneous azeotropic distillation or extractive distillation processes to reduce energy consumption and carbon dioxide emissions. <i>Chemical Engineering Research and Design</i> , 2018 , 132, 399-408	5.5	25
200	Multiscale Exploration and Experimental Insights into Separating Neutral Heterocyclic Nitrogen Compounds Using [emim][NO ₃] as an Extractant. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5662-5673	8.3	24
199	Efficient extraction of phenol from low-temperature coal tar model oil via imidazolium-based ionic liquid and mechanism analysis. <i>Journal of Molecular Liquids</i> , 2020 , 306, 112911	6	24
198	Liquid-liquid equilibrium for the ternary systems water + 2-methyl-1-propanol + butyl acetate and water + 2-methyl-2-propanol + butyl acetate at (298.15 and 323.15) K. <i>Fluid Phase Equilibria</i> , 2014 , 381, 60-66	2.5	24
197	Liquid-liquid equilibria for azeotropic mixture of methyl tert-butyl ether and methanol with ionic liquids at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2019 , 132, 76-82	2.9	24
196	Life cycle assessment and techno-economic analysis of biomass-to-hydrogen production with methane tri-reforming. <i>Energy</i> , 2020 , 199, 117488	7.9	24
195	Multiscale modeling and liquid-liquid equilibria insights for the extraction of heterocyclic nitrogen compounds from coal tar via [emim][TOS] as extractant. <i>Journal of Molecular Liquids</i> , 2019 , 277, 825-832	6	23

194	Separation of isopropyl alcohol and isopropyl ether with ionic liquids as extractant based on quantum chemical calculation and liquid-liquid equilibrium experiment. <i>Separation and Purification Technology</i> , 2020 , 247, 116937	8.3	23
193	Design and Control of a Middle Vessel Batch Distillation Process for Separating the Methyl Formate/Methanol/Water Ternary System. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2760-2768	3.9	23
192	Molecular Mechanism and Extraction Performance Evaluation for Separation of Methanol and n-Hexane via Ionic Liquids as Extractant. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8700-8712	8.3	23
191	Separation of azeotrope (2,2,3,3-tetrafluoro-1-propanol + water) via heterogeneous azeotropic distillation by energy-saving dividing-wall column: Process design and control strategies. <i>Chemical Engineering Research and Design</i> , 2018 , 135, 52-66	5.5	23
190	Optimization of Pressure-Swing Batch Distillation with and without Heat Integration for Separating Dichloromethane/Methanol Azeotrope Based on Minimum Total Annual Cost. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4104-4112	3.9	22
189	Extraction and mechanism exploration for separating cresols from coal tar by ionic liquid ethanolamine lactate. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112845	6	22
188	Determination of an optimum entrainer for extractive distillation based on an isovolatility curve at different pressures. <i>Separation and Purification Technology</i> , 2018 , 201, 79-95	8.3	22
187	Ternary Liquid-Liquid Equilibrium of Azeotropes (Ester + Alcohol) with Different Ionic Liquids at T = 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 532-538	2.8	21
186	Improving the energy efficiency and production performance of the cyclohexanone ammoxidation process via thermodynamics, kinetics, dynamics, and economic analyses. <i>Energy Conversion and Management</i> , 2019 , 192, 100-113	10.6	21
185	Ternary liquid-liquid equilibria for systems containing (dimethyl carbonate or methyl acetate + methanol + 1-methylimidazole hydrogen sulfate) at 298.15 K and 318.15 K. <i>Journal of Chemical Thermodynamics</i> , 2018 , 121, 49-54	2.9	21
184	Vapor-Liquid equilibrium for binary and ternary systems of tetrahydrofuran, ethyl acetate and N-methyl pyrrolidone at pressure 101.3 kPa. <i>Journal of Molecular Liquids</i> , 2018 , 268, 19-25	6	21
183	Separation of heterocyclic nitrogen compounds from coal tar fractions via ionic liquids: COSMO-SAC screening and experimental study. <i>Chemical Engineering Communications</i> , 2019 , 206, 1199-1217	2.2	21
182	Ternary Liquid-Liquid Equilibrium of Azeotropes (Water +2-Propanol) with Ionic Liquids ([Dmim][NTf2]) at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 1667-1672	2.8	20
181	Screening of Imidazole Ionic Liquids for Separating the Acetone-Hexane Azeotrope by COSMO-SAC Simulations and Experimental Verification. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4440-4450	8.3	20
180	Ternary liquid-liquid equilibrium of an azeotropic mixture (hexane + methanol) with different imidazolium-based ionic liquids at T = 298.15 K and 101.325 kPa. <i>Fluid Phase Equilibria</i> , 2018 , 461, 51-56	2.5	20
179	Vapour-Liquid equilibrium and extractive distillation for separation of azeotrope isopropyl alcohol and diisopropyl ether. <i>Journal of Chemical Thermodynamics</i> , 2019 , 131, 294-302	2.9	20
178	Energy, economic and environmental evaluations for the separation of ethyl acetate/ethanol/water mixture via distillation and pervaporation unit. <i>Chemical Engineering Research and Design</i> , 2020 , 140, 14-25	5.5	19
177	Comprehensive analysis of environmental impacts and energy consumption of biomass-to-methanol and coal-to-methanol via life cycle assessment. <i>Energy</i> , 2020 , 204, 117961	7.9	19

176	Process design of carbon dioxide and ethane separation using ionic liquid by extractive distillation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 887-896	3.5	19
175	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. <i>Journal of Molecular Liquids</i> , 2019 , 292, 111424	6	19
174	Advanced exergy and exergoeconomic analyses of a cascade absorption heat transformer for the recovery of low grade waste heat. <i>Energy Conversion and Management</i> , 2020 , 205, 112392	10.6	19
173	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. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112266	6	19
172	Advanced Exergy and Exergoeconomic Analysis of Cascade Absorption Refrigeration System Driven by Low-Grade Waste Heat. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16843-16857	8.3	18
171	Isobaric Vapor-Liquid Equilibrium for Three Binary Systems of Ethyl Acetate + Propyl Acetate, Ethyl Acetate + Propylene Carbonate, and Propyl Acetate + Propylene Carbonate at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1588-1595	2.8	18
170	Salts effect on isobaric vapor-liquid equilibrium for separation of the azeotropic mixture allyl alcohol+water. <i>Fluid Phase Equilibria</i> , 2018 , 457, 11-17	2.5	18
169	Measurement and correlation of liquid-liquid equilibrium data for 2-methyl-1-propanol+2-propanol+water at several temperatures. <i>Fluid Phase Equilibria</i> , 2013 , 340, 37-41	2.5	18
168	A Brief Review of the Prediction of Liquid-Liquid Equilibrium of Ternary Systems Containing Ionic Liquids by the COSMO-SAC Model. <i>Journal of Solution Chemistry</i> , 2019 , 48, 1547-1563	1.8	18
167	Liquid-liquid measurement and correlation for separation of azeotrope (dimethyl carbonate and ethanol) with different imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2019 , 485, 183-189	2.5	18
166	Separation of ternary mixture with double azeotropic system by a pressure-swing batch distillation integrated with quasi-continuous process. <i>Chemical Engineering Research and Design</i> , 2019 , 128, 85-94	5.5	17
165	Mechanism Analysis, Economic Optimization, and Environmental Assessment of Hybrid Extractive Distillation+Evaporation Processes for Dehydration of n-Propanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4561-4571	8.3	17
164	Novel Postcombustion Capture Process for CO ₂ from the Flue Gas of Coal-Fired Power Plants Using a Green Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2236-2245	8.3	17
163	A tribo-positive Fe@MoS ₂ piezocatalyst for the durable degradation of tetracycline: degradation mechanism and toxicity assessment. <i>Environmental Science: Nano</i> , 2020 , 7, 1704-1718	7.1	17
162	Liquid-liquid extraction of methanol from its mixtures with hexane using three imidazolium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2019 , 138, 189-195	2.9	17
161	Batch-to-continuous process design and economic, energy, exergy, and environmental analyses of Claisen ester condensation based on diethyl 2-ethyl-2-phenylmalonate synthesis. <i>Journal of Cleaner Production</i> , 2020 , 251, 119619	10.3	17
160	Efficient recovery of benzene and n-propanol from wastewater via vapor recompression assisted extractive distillation based on techno-economic and environmental analysis. <i>Chemical Engineering Research and Design</i> , 2021 , 148, 462-472	5.5	17
159	Molecular Dynamics Evaluation of Removal of Acid Gases from SNG by Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18093-18104	8.3	16

158	Liquid-Liquid Equilibrium of Isobutyl Acetate + Isobutyl Alcohol + Imidazolium-Based Ionic Liquids at 298.15 and 308.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 778-783	2.8	16
157	Separation of the mixture (isopropyl alcohol + diisopropyl ether + n-propanol): Entrainer selection, interaction exploration and vapour-liquid equilibrium measurements. <i>Journal of Chemical Thermodynamics</i> , 2019 , 135, 27-34	2.9	16
156	Liquid-Liquid Equilibrium for the Ternary System 2-Methyl-1-propanol + 3-Methyl-1-butanol + Water at (298.15, 323.15, and 348.15) K. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2689-2695	2.8	16
155	Liquid-Liquid equilibrium for the ternary system of 1-butanol+3-methyl-1-butanol+water at different temperatures. <i>Fluid Phase Equilibria</i> , 2012 , 335, 14-19	2.5	16
154	Deep eutectic solvents effect on vapor-liquid phase equilibrium for separation of allyl alcohol from its aqueous solution. <i>Journal of Molecular Liquids</i> , 2019 , 279, 524-529	6	15
153	Separation of Azeotropes Hexane + Ethanol/1-Propanol by Ionic Liquid Extraction: Liquid-Liquid Phase Equilibrium Measurements and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 4296-4300	2.8	15
152	Economic and Environmental Evaluation for Purification of Diisopropyl Ether and Isopropyl Alcohol via Combining Distillation and Pervaporation Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 20170-20179	8.3	15
151	Liquid-liquid equilibrium measurements and interaction exploration for separation of isobutyl alcohol + isobutyl acetate by imidazolium-based ionic liquids with different anions. <i>Journal of Chemical Thermodynamics</i> , 2020 , 141, 105932	2.9	15
150	Energy-saving investigation of organic material recovery from wastewater via thermal coupling extractive distillation combined with heat pump based on thermoeconomic and environmental analysis. <i>Chemical Engineering Research and Design</i> , 2021 , 146, 441-450	5.5	15
149	Application of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate to the removal of alcohol from mixtures with heptane. <i>Fluid Phase Equilibria</i> , 2017 , 443, 44-49	2.5	14
148	Effect of multi-recycle streams on triple-column pressure-swing distillation optimization. <i>Chemical Engineering Research and Design</i> , 2017 , 127, 215-222	5.5	14
147	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. <i>Journal of Chemical Thermodynamics</i> , 2019 , 135, 116-123	2.9	14
146	Liquid-Liquid equilibrium data for ternary aqueous mixtures containing 1-pentanol and 2-methyl-1-propanol at (298.15, 323.15, and 348.15)K. <i>Fluid Phase Equilibria</i> , 2013 , 349, 31-36	2.5	14
145	Liquid-Liquid Extraction of Butanol from Heptane + Butanol Mixture by Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 4273-4278	2.8	14
144	Quantum chemical calculation, molecular dynamics simulation and process design for separation of heptane - butanol using ionic liquids extraction. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113851	6	14
143	Progress and Opportunities for Utilizing Seeding Techniques in Crystallization Processes. <i>Organic Process Research and Development</i> , 2021 , 25, 1496-1511	3.9	14
142	Design and comprehensive analysis of a novel pressure-swing batch distillation process for the separation of a binary azeotrope with various boiling behaviors. <i>Separation and Purification Technology</i> , 2020 , 251, 117329	8.3	13
141	Measurement and correlation of ternary phase equilibrium of (hexane + ethyl acetate) with four ILs. <i>Journal of Chemical Thermodynamics</i> , 2018 , 116, 114-120	2.9	13

140	Separation of azeotropic mixture (2, 2, 3, 3-Tetrafluoro-1-propanol + water) by extractive distillation: Entrainers selection and vapour-liquid equilibrium measurements. <i>Journal of Chemical Thermodynamics</i> , 2019 , 138, 205-210	2.9	13
139	Advanced exergy and exergoeconomic analysis of an integrated system combining CO ₂ capture-storage and waste heat utilization processes. <i>Energy</i> , 2021 , 219, 119600	7.9	13
138	Process intensification and waste minimization for ibuprofen synthesis process. <i>Journal of Cleaner Production</i> , 2018 , 194, 396-405	10.3	13
137	Vapor-Liquid Phase Equilibrium for Separation of Isopropanol from Its Aqueous Solution by Choline Chloride-Based Deep Eutectic Solvent Selected by COSMO-SAC Model. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1338-1348	2.8	12
136	Energy-Saving Exploration of Mixed Solvent Extractive Distillation Combined with Thermal Coupling or Heat Pump Technology for the Separation of an Azeotrope Containing Low-Carbon Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13204-13219	3.9	12
135	Control of a pressure-swing distillation process for benzene/isopropanol/water separation with and without heat integration. <i>Separation and Purification Technology</i> , 2020 , 236, 116311	8.3	12
134	Separation of -Cresol from Coal Tar Model Oil Using Propylamine-Based Ionic Liquids: Extraction and Interaction Mechanism Exploration. <i>ACS Omega</i> , 2020 , 5, 23090-23098	3.9	12
133	Vapor-Liquid equilibrium of three binary systems for acetone, diethylamine and N-methyl pyrrolidone at atmospheric pressure. <i>Journal of Molecular Liquids</i> , 2019 , 274, 278-284	6	12
132	Liquid-Liquid Equilibrium Measurements and Correlation for Ternary Systems (Butyl Acetate + 1-Butanol + Ethylene Glycol/1,3-Propanediol/Ethanolamine) at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3244-3249	2.8	11
131	Liquid-liquid equilibrium measurements and interaction explorations for separation of azeotrope n-butyl acetate and n-butanol using three ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2021 , 155, 106349	2.9	11
130	Separation of azeotropic mixture (acetone+n-heptane) by extractive distillation with intermediate and heavy boiling entrainers: Vapour-liquid equilibrium measurements and correlation. <i>Journal of Chemical Thermodynamics</i> , 2021 , 152, 106284	2.9	10
129	Dynamic control of the pressure-swing distillation process for THF/ethanol/water separation with and without thermal integration. <i>Separation and Purification Technology</i> , 2021 , 268, 118686	8.3	10
128	Liquid Liquid Equilibrium Data for the Separation of Acetone from n-Heptane Using Four Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1202-1208	2.8	9
127	Efficient extractive distillation design for separating binary azeotrope via thermodynamic and dynamic analyses. <i>Separation and Purification Technology</i> , 2020 , 238, 116425	8.3	9
126	Separation of azeotrope 2,2,3,3-tetrafluoro-1-propanol and water: Liquid-liquid equilibrium measurements and interaction exploration. <i>Journal of Chemical Thermodynamics</i> , 2020 , 142, 106011	2.9	9
125	Comprehensive 3E analysis and multi-objective optimization of a novel process for CO ₂ capture and separation process from syngas. <i>Journal of Cleaner Production</i> , 2020 , 274, 122871	10.3	9
124	Measurement and Thermodynamic Modeling of Ternary Liquid-Liquid Equilibrium for Extraction of 2,6-Xylenol from Aromatic Hydrocarbon Mixtures with Different Solvents. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 330-337	2.8	9
123	Effect of thermodynamic parameters on prediction of phase behavior and process design of extractive distillation. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 993-1002	3.2	9

122	Liquid-liquid equilibrium measurement and thermodynamics modeling for the systems water + thioglycolic acid + isopropyl ether/methyl tert-butyl ether at 298.15 and 308.15 K. <i>Fluid Phase Equilibria</i> , 2018 , 476, 126-130	2.5	9
121	Controllability of separate heat pump distillation for separating isopropanol-chlorobenzene mixture. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 866-875	2.8	8
120	Control comparison of extractive distillation with two different solvents for separating acetone and tetrahydrofuran. <i>Chemical Engineering Research and Design</i> , 2019 , 125, 16-30	5.5	8
119	Energy, exergy, economy analysis and multi-objective optimization of a novel cascade absorption heat transformer driven by low-level waste heat. <i>Energy Conversion and Management</i> , 2020 , 221, 113162	10.6	8
118	Entrainers selection and vapour-liquid equilibrium measurements for separating azeotropic mixtures (ethanol/n-hexane/cyclohexane) by extractive distillation. <i>Journal of Chemical Thermodynamics</i> , 2020 , 144, 106070	2.9	8
117	Liquid-Liquid Equilibrium for the Ternary System 2-Methyl-2-propanol + 1-Pentanol + Water at T = (303.15, 328.15, and 353.15) K. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2254-2259	2.8	8
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115	Determination of a suitable index for a solvent via two-column extractive distillation using a heuristic method. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 824-833	4.5	8
114	Separation of azeotropic mixture isopropyl alcohol/ethyl acetate by extractive distillation: Vapor-liquid equilibrium measurements and interaction exploration. <i>Fluid Phase Equilibria</i> , 2020 , 507, 112428	2.5	8
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112	Application of green solvent to separate the minimum boiling point azeotrope based on molecular structure prediction and experimental verification. <i>Separation and Purification Technology</i> , 2020 , 240, 116601	8.3	8
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110	Multi-objective optimization and control strategy for extractive distillation with dividing-wall column/pervaporation for separation of ternary azeotropes based on mechanism analysis. <i>Energy</i> , 2021 , 229, 120774	7.9	8
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94	Measurement and Correlation of Vapor-Liquid Equilibrium for Binary Systems of Dimethyl Carbonate with Butyl Butyrate, o-Xylene, and Cyclohexanone at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5210-5217	2.8	6
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2	MEASUREMENTS AND THERMODYNAMIC MODELING OF VAPOR-LIQUID EQUILIBRIA FOR BINARY SYSTEMS OF ISOPROPYL CHLOROACETATE WITH CYCLOHEXANE, ISOPROPANOL AND BENZENE AT 101.3 kPa. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 1717-1725	1.7	
1	Reply to Comments on Isoobaric 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. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 852-857	2.8	