Yinglong Wang

List of Publications by Year in Descending Order

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	Carbon footprint and water footprint analysis of generating synthetic natural gas from biomass. *Renewable Energy*, **2022**, 186, 780-789	8.1	1
246	The mechanism explosion of separating binary azeotropic system with intermediate-boiling-point solvent based on vapor–liquid equilibrium experiment, quantum chemical calculation and molecular dynamics simulation. *Journal of Chemical Thermodynamics*, **2022**, 168, 106730	2.9	
245	Molecular simulation and optimization of extractive distillation for separation of dimethyl carbonate and methanol. *Chemical Engineering Research and Design*, **2022**, 158, 181-188	5.5	5
244	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
243	Study on an energy-saving process for separation ethylene elycol mixture through heat-pump, heat-integration and ORC driven by waste-heat. *Energy*, **2022**, 243, 122985	7.9	0
242	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
241	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
240	Liquid-liquid phase behavior for water + 2,2-difluoroethanol with three imidazole-based ionic liquids. *Journal of Molecular Liquids*, **2022**, 345, 117836	6	0
239	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
238	Heat integration and dynamic control for separating the ternary azeotrope of butanone/isopropanol/n-heptane via pressure-swing distillation. *Chemical Engineering and Processing: Process Intensification*, **2022**, 170, 108657	3.7	2
237	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
236	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
235	Modeling and comprehensive analysis of food waste gasification process for hydrogen production. *Energy Conversion and Management*, **2022**, 258, 115509	10.6	0
234	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
233	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
232	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
231	Molecular mechanism, liquid–liquid equilibrium and process design of separating octane-n-butanol system by ionic liquids. *Journal of Molecular Liquids*, **2022**, 355, 118974	6	0

230	Comparative water footprint assessment of fuel cell electric vehicles and compressed natural gas vehicles.. *Science of the Total Environment*, **2022**, 830, 154820	10.2	0
229	Thermodynamic analysis and process optimization of organosilicon distillation systems. *Energy*, **2022**, 124006	7.9	0
228	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
227	Molecular dynamics-assisted process design and multi-objective optimization for efficient production of N-butyl acetate by reactive-extractive distillation/ pervaporation. *Separation and Purification Technology*, **2022**, 121427	8.3	0
226	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
225	Application of Imidazolium-based polyionic liquids to separate the 1,3,5-Trioxane-Water/Ethanol-Water system based on experimental verification and molecular mechanism analysis. *Journal of Molecular Liquids*, **2021**, 348, 118079	6	1
224	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
223	Energy consumption, environmental performance, and techno-economic feasibility analysis of the biomass-to-hydrogen process with and without carbon capture and storage. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106752	6.8	2
222	Phase behavior and extraction mechanism of methanol-n-hexane separation using choline-based deep eutectic solvent. *Journal of Molecular Liquids*, **2021**, 345, 118204	6	2
221	Recent advances in hollow metal-organic frameworks and their composites for heterogeneous thermal catalysis. *Science China Chemistry*, **2021**, 64, 1854	7.9	0
220	Molecular simulation and liquid□liquid equilibrium for the separation of n-heptane and dimethyl carbonate by ionic liquids. *Fluid Phase Equilibria*, **2021**, 113291	2.5	1
219	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
218	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
217	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
216	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
215	Energy efficient and environmentally friendly pervaporation-distillation hybrid process for ternary azeotrope purification. *Computers and Chemical Engineering*, **2021**, 147, 107236	4	5
214	Double-column batch stripper process based on heterogeneous property and control strategy for the efficient separation of a ternary mixture containing two minimum boiling azeotropes. *Chemical Engineering Research and Design*, **2021**, 148, 1123-1132	5.5	3
213	Dynamic control of heat pump assisted extractive distillation process for separation of ethyl acetate/isopropanol/water mixture. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 2368	3.5	2

212	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
211	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
210	Mechanism analysis of extractive distillation for separation of acetic acid and water based on quantum chemical calculation and molecular dynamics simulation. *Journal of Molecular Liquids*, **2021**, 332, 115866	6	6
209	Progress and Opportunities for Utilizing Seeding Techniques in Crystallization Processes. *Organic Process Research and Development*, **2021**, 25, 1496-1511	3.9	14
208	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
207	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
206	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
205	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
204	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
203	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
202	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
201	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
200	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
199	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
198	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
197	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
196	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	
195	Mechanism analysis and sustainability evaluation of imidazole ionic liquid extraction based on molecular dynamics. *Journal of Molecular Liquids*, **2021**, 323, 115066	6	1

194	Advanced exergy and exergoeconomic analysis of an integrated system combining CO2 capture-storage and waste heat utilization processes. *Energy*, **2021**, 219, 119600	7.9	13
193	Molecular kinetic extraction mechanism analysis of 1-butanol from n-heptane-1-butanol by choline-based DESs as extractants. *Journal of Molecular Liquids*, **2021**, 322, 114665	6	6
192	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
191	Sustainable wastewater treatment via PV-distillation hybrid process for the separation of ethyl acetate/isopropanol/water. *Separation and Purification Technology*, **2021**, 257, 117919	8.3	7
190	Molecular Mechanism and Absorption Performance Evaluation of CO2 Capture from the PCC Process by Monoethanolamine-Based Deep Eutectic Solvents. *Industrial & Engineering Chemistry Research*, **2021**, 60, 1483-1493	3.9	7
189	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
188	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
187	Dynamic control of the pressure-swing distillation process for THF/ethanol/water separation with and without thermal integration. *Separation and Purification Technology*, **2021**, 268, 118686	8.3	10
186	Control of the azeotropic distillation process for separation of acetonitrile and water with and without heat integration. *Chemical Engineering and Processing: Process Intensification*, **2021**, 165, 108451	3.7	1
185	Multi-objective optimization and control strategy for extractive distillation with dividing-wall column/pervaporation for separation of ternary azeotropes based on mechanism analysis. *Energy*, **2021**, 229, 120774	7.9	8
184	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
183	Dynamic control and performance comparison of conventional and dividing wall extractive distillation for benzene / isopropanol / water separation. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 128, 73-73	5.3	0
182	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
181	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
180	Conceptual design and comprehensive analysis for novel municipal sludge gasification-based hydrogen production via plasma gasifier. *Energy Conversion and Management*, **2021**, 245, 114635	10.6	7
179	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
178	Molecular interaction mechanism and performance evaluation in the liquid-liquid extraction process of ionic liquid-heptane-tertiary butanol based on molecular dynamics. *Journal of Molecular Liquids*, **2021**, 340, 116837	6	2
177	Design and optimization of reactive dividing-wall extractive distillation process for dimethyl carbonate synthesis based on quantum chemistry and molecular dynamics calculation. *Separation and Purification Technology*, **2021**, 273, 118978	8.3	3

176	Process design and multi-objective optimization for separation of ternary mixtures with double azeotropes via integrated quasi-continuous pressure-swing batch distillation. *Separation and Purification Technology*, **2021**, 276, 119288	8.3	5
175	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
174	Extraction mechanism analysis and energy saving enhancement of extraction separation of methyl tert-butyl ether and methanol by ionic liquid based on molecular dynamics simulation. *Separation and Purification Technology*, **2021**, 279, 119717	8.3	3
173	Analysis and intensification of energy saving process for separation of azeotrope by ionic liquid extractive distillation based on molecular dynamics simulation. *Separation and Purification Technology*, **2021**, 276, 119254	8.3	4
172	Exploration of gradient energy-saving separation processes for ethylene glycol mixtures based on energy, exergy, environment, and economic analyses. *Separation and Purification Technology*, **2021**, 279, 119787	8.3	3
171	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
170	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
169	Synergistic flame retardancy of tris(1-methoxy-2,2,6,6-tetramethyl-piperidin-4-yl)phosphite and tris(2,4,6-tribromophenoxy)-1,3,5-triazine/Sb2O3 in high-impact polystyrene. *Fire and Materials*, **2020**, 44, 573-584	1.8	4
168	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
167	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
166	Energy, economic and environmental evaluations for the separation of ethyl acetate/ethanol/water mixture via distillation and pervaporation unit. *Chemical Engineering Research and Design*, **2020**, 140, 14-25	5.5	19
165	Comprehensive analysis of environmental impacts and energy consumption of biomass-to-methanol and coal-to-methanol via life cycle assessment. *Energy*, **2020**, 204, 117961	7.9	19
164	Energy-Efficient Process with a Decanter to Separate Toluene-Methanol-Water Ternary Azeotropic Mixtures. *Chemical Engineering and Technology*, **2020**, 43, 1276-1284	2	2
163	Screening of Imidazole Ionic Liquids for Separating the Acetone–n-Hexane Azeotrope by COSMO-SAC Simulations and Experimental Verification. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4440-4450	8.3	20
162	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
161	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
160	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
159	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

158	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. *Industrial & Engineering Chemistry Research*, **2020**, 59, 13204-13219	3.9	12
157	Energy, exergy, economy analysis and multi-objective optimization of a novel cascade absorption heat transformer driven by low-level waste heat. *Energy Conversion and Management*, **2020**, 221, 113162	10.6	8
156	Design and comprehensive analysis of a novel pressure-swing batch distillation process for the separation of a binary azeotrope with various boiling behaviors. *Separation and Purification Technology*, **2020**, 251, 117329	8.3	13
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	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
151	A tribo-positive Fe@MoS2 piezocatalyst for the durable degradation of tetracycline: degradation mechanism and toxicity assessment. *Environmental Science: Nano*, **2020**, 7, 1704-1718	7.1	17
150	Theoretical assessment of ketone ammoximation production using thermodynamic, techno-economic, and life cycle environmental analyses. *Journal of Cleaner Production*, **2020**, 264, 121557	10.3	4
149	Energy, exergy, economic and environmental (4E) analysis of an integrated process combining CO2 capture and storage, an organic Rankine cycle and an absorption refrigeration cycle. *Energy Conversion and Management*, **2020**, 210, 112738	10.6	29
148	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
147	Extraction and mechanism exploration for separating cresols from coal tar by ionic liquid ethanolamine lactate. *Journal of Molecular Liquids*, **2020**, 305, 112845	6	22
146	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
145	Molecular Mechanism and Extraction Performance Evaluation for Separation of Methanol and n-Hexane via Ionic Liquids as Extractant. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 8700-8712	8.3	23
144	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
143	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
142	Determination of a suitable index for a solvent via two-column extractive distillation using a heuristic method. *Frontiers of Chemical Science and Engineering*, **2020**, 14, 824-833	4.5	8
141	Advanced exergy and exergoeconomic analyses of a cascade absorption heat transformer for the recovery of low grade waste heat. *Energy Conversion and Management*, **2020**, 205, 112392	10.6	19

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	Fast and Selective Semihydrogenation of Alkynes by Palladium Nanoparticles Sandwiched in Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2020**, 59, 3650-3657	16.4	51
137	Batch-to-continuous process design and economic, energy, exergy, and environmental analyses of Claisen ester condensation based on diethyl 2-ethyl-2-phenylmalonate synthesis. *Journal of Cleaner Production*, **2020**, 251, 119619	10.3	17
136	Efficient extractive distillation design for separating binary azeotrope via thermodynamic and dynamic analyses. *Separation and Purification Technology*, **2020**, 238, 116425	8.3	9
135	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
134	Life cycle energy consumption and GHG emissions of biomass-to-hydrogen process in comparison with coal-to-hydrogen process. *Energy*, **2020**, 191, 116588	7.9	35
133	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
132	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
131	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
130	Comprehensive 3E analysis and multi-objective optimization of a novel process for CO2 capture and separation process from syngas. *Journal of Cleaner Production*, **2020**, 274, 122871	10.3	9
129	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
128	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
127	Life Cycle Environmental Implications of Ionic-Liquid-Based Carbon Capture and Storage Processes and Its Alternative Improvement Cases. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 18106-18113	8.3	7
126	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
125	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
124	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
123	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

122	Molecular Mechanism, Thermoeconomic, and Environmental Impact for Separation of Isopropanol and Water Using the Choline-Based DESs as Extractants. *Industrial & Engineering Chemistry Research*, **2020**, 59, 16077-16087	3.9	7
121	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
120	Quantitative structure property relationship for relative volatility of isopropanol and water mixture. *Separation Science and Technology*, **2020**, 55, 3252-3259	2.5	2
119	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
118	Life cycle assessment and techno-economic analysis of biomass-to-hydrogen production with methane tri-reforming. *Energy*, **2020**, 199, 117488	7.9	24
117	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
116	Vapor–Liquid Equilibrium for Binary of 1-Butanol + N,N-Dimethylacetamide and Methyl Isobutyl Ketone + N,N-Dimethylacetamide at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2019**, 64, 4142-4147	2.8	4
115	Advanced Exergy and Exergoeconomic Analysis of Cascade Absorption Refrigeration System Driven by Low-Grade Waste Heat. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16843-16857	8.3	18
114	Molecular Dynamics Evaluation of Removal of Acid Gases from SNG by Ionic Liquid. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18093-18104	8.3	16
113	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
112	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
111	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
110	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
109	Design optimization and operating pressure effects in the separation of acetonitrile/methanol/water mixture by ternary extractive distillation. *Journal of Cleaner Production*, **2019**, 218, 212-224	10.3	65
108	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
107	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
106	Exploration of the effects of pressure on the controllability of extractive distillation for separating pressure-sensitive azeotropes. *Separation and Purification Technology*, **2019**, 227, 115681	8.3	7
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104	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
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