

Yinglong Wang

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into pressure-swing distillation from azeotropic phenomenon to dynamic control. <i>Chemical Engineering Research and Design</i> , 2017, 117, 318-335.	5.6	243
2	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.	8.8	205
3	Separation of acetonitrile/methanol/benzene ternary azeotrope via triple column pressure-swing distillation. <i>Separation and Purification Technology</i> , 2016, 169, 66-77.	7.9	113
4	Separating an azeotropic mixture of toluene and ethanol via heat integration pressure swing distillation. <i>Computers and Chemical Engineering</i> , 2015, 76, 137-149.	3.8	103
5	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.	9.3	101
6	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.	9.3	94
7	Fast and Selective Semihydrogenation of Alkynes by Palladium Nanoparticles Sandwiched in Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3650-3657.	13.8	94
8	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.	3.2	84
9	Extractive distillation for ethanol dehydration using imidazolium-based ionic liquids as solvents. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 109, 190-198.	3.6	76
10	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.	2.0	76
11	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.	7.9	75
12	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.	8.8	74
13	Extractive distillation and pressure-swing distillation for THF/ethanol separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1463-1472.	3.2	72
14	Techno-economic analysis of biomass-to-hydrogen process in comparison with coal-to-hydrogen process. <i>Energy</i> , 2019, 185, 1063-1075.	8.8	72
15	A review of extractive distillation from an azeotropic phenomenon for dynamic control. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1510-1522.	3.5	71
16	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.	4.9	70
17	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.	4.6	69
18	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.	3.7	65

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19	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.	3.7	62
20	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.	3.8	61
21	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.	9.2	61
22	Liquid-liquid equilibria for ternary mixtures of water+ 2-propanol+ 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids at 298.15 K. <i>Fluid Phase Equilibria</i> , 2016, 412, 205-210.	2.5	59
23	Thermodynamic efficiency enhancement of pressure-swing distillation process via heat integration and heat pump technology. <i>Applied Thermal Engineering</i> , 2019, 154, 519-529.	6.0	59
24	Life cycle assessment and techno-economic analysis of biomass-to-hydrogen production with methane tri-reforming. <i>Energy</i> , 2020, 199, 117488.	8.8	59
25	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.	4.9	58
26	Separation of cresol from coal tar by imidazolium-based ionic liquid [Emim][SCN]: Interaction exploration and extraction experiment. <i>Fuel</i> , 2020, 264, 116908.	6.4	58
27	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.	7.9	57
28	Molecular Mechanism and Extraction Performance Evaluation for Separation of Methanol and <i>n</i> -Hexane via Ionic Liquids as Extractant. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8700-8712.	6.7	57
29	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.	3.7	54
30	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.	3.7	53
31	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.	3.3	53
32	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.	3.3	52
33	Control of an energy-saving side-stream extractive distillation process with different disturbance conditions. <i>Separation and Purification Technology</i> , 2019, 210, 195-208.	7.9	52
34	Mechanism Analysis for Separation of Cyclohexane and <i>tert</i> -Butanol System via Ionic Liquids as Extractants and Process Optimization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19984-19992.	6.7	50
35	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.	2.0	48
36	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.	5.1	48

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37	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.	3.8	47
38	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.	3.7	47
39	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.	7.9	47
40	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.	8.8	47
41	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.	4.3	47
42	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.	2.0	45
43	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	45
44	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.	3.7	44
45	Heat Integration and Control of a Triple-Column Pressure-Swing Distillation Process. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2150-2167.	3.7	43
46	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.	2.0	43
47	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.	8.8	43
48	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.	6.7	42
49	Control of a Ternary Extractive Distillation Process with Recycle Splitting Using a Mixed Entrainer. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 339-351.	3.7	41
50	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.	4.9	41
51	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.	6.7	40
52	Mechanism Analysis, Economic Optimization, and Environmental Assessment of Hybrid Extractive Distillation-Pervaporation Processes for Dehydration of n-Propanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4561-4571.	6.7	40
53	Conceptual design and comprehensive analysis for novel municipal sludge gasification-based hydrogen production via plasma gasifier. <i>Energy Conversion and Management</i> , 2021, 245, 114635.	9.2	40
54	Screening of Imidazole Ionic Liquids for Separating the Acetone-n-Hexane Azeotrope by COSMO-SAC Simulations and Experimental Verification. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4440-4450.	6.7	39

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55	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.	5.6	39
56	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	38
57	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.	9.2	38
58	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.	5.6	37
59	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.	3.7	36
60	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.	2.0	35
61	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.	4.9	35
62	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.	2.0	35
63	Progress and Opportunities for Utilizing Seeding Techniques in Crystallization Processes. <i>Organic Process Research and Development</i> , 2021, 25, 1496-1511.	2.7	35
64	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.	1.9	34
65	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.	2.6	34
66	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.	3.6	33
67	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.	2.0	33
68	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.	8.8	33
69	Molecular Dynamics Evaluation of Removal of Acid Gases from SNG by Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18093-18104.	6.7	32
70	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.	5.6	32
71	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.	5.6	31
72	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.	3.7	31

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73	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.	5.6	30
74	Improving the energy efficiency and production performance of the cyclohexanone ammoximation process via thermodynamics, kinetics, dynamics, and economic analyses. <i>Energy Conversion and Management</i> , 2019, 192, 100-113.	9.2	30
75	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.	1.2	30
76	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.	1.9	29
77	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.	7.9	29
78	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.	4.9	29
79	Extraction and mechanism exploration for separating cresols from coal tar by ionic liquid ethanolamine lactate. <i>Journal of Molecular Liquids</i> , 2020, 305, 112845.	4.9	29
80	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.	4.9	28
81	Separation of n-heptane and tert-butanol by ionic liquids based on COSMO-SAC model. <i>Green Energy and Environment</i> , 2021, 6, 380-391.	8.7	28
82	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.	4.9	27
83	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	26
84	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.	3.2	26
85	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.	6.7	26
86	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.	2.0	26
87	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.	9.2	26
88	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.	6.7	26
89	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.	2.0	26
90	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.	7.9	26

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91	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. Fluid Phase Equilibria, 2014, 381, 60-66.	2.5	25
92	Design and Control of a Middle Vessel Batch Distillation Process for Separating the Methyl Formate/Methanol/Water Ternary System. Industrial & Engineering Chemistry Research, 2016, 55, 2760-2768.	3.7	25
93	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.	4.9	25
94	Control of a pressure-swing distillation process for benzene/isopropanol/water separation with and without heat integration. Separation and Purification Technology, 2020, 236, 116311.	7.9	25
95	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.	3.6	25
96	Ternary Liquid-Liquid Equilibrium of Azeotropes (Water +2-Propanol) with Ionic Liquids ([Dmim][NTf ₂]) at Different Temperatures. Journal of Chemical & Engineering Data, 2017, 62, 1667-1672.	1.9	24
97	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. Journal of Chemical & Engineering Data, 2018, 63, 1588-1595.	1.9	24
98	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.	4.9	24
99	Modeling and comprehensive analysis of food waste gasification process for hydrogen production. Energy Conversion and Management, 2022, 258, 115509.	9.2	24
100	Ternary liquid-liquid equilibria for systems containing (dimethyl carbonate or methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (acet Thermodynamics, 2018, 121, 49-54.	2.0	23
101	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.	1.9	23
102	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.	5.6	23
103	Liquid-liquid measurement and correlation for separation of azeotrope (dimethyl carbonate and) Tj ETQq1 1 0.784314 rgBT /Overlock 2.5 23	2.5	23
104	Molecular Mechanism, Thermo-economic, and Environmental Impact for Separation of Isopropanol and Water Using the Choline-Based DESs as Extractants. Industrial & Engineering Chemistry Research, 2020, 59, 16077-16087.	3.7	23
105	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.	7.9	23
106	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.	7.9	23
107	Salts effect on isobaric vapor-liquid equilibrium for separation of the azeotropic mixture allyl alcohol + water. Fluid Phase Equilibria, 2018, 457, 11-17.	2.5	22
108	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.	1.9	22

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109	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.	2.0	22
110	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.	2.0	22
111	Design and optimization for the separation of cyclohexane-isopropanol-water using mixed extractants with thermal integration based on molecular mechanism. <i>Separation and Purification Technology</i> , 2021, 266, 118541.	7.9	22
112	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.	4.4	21
113	Separation of <i>m</i> -Cresol from Coal Tar Model Oil Using Propylamine-Based Ionic Liquids: Extraction and Interaction Mechanism Exploration. <i>ACS Omega</i> , 2020, 5, 23090-23098.	3.5	21
114	Separation of azeotropic mixture (acetone+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.	2.0	21
115	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.	1.9	21
116	Application of energy-saving hybrid distillation-pervaporation process for recycling organics from wastewater based on thermo-economic and environmental analysis. <i>Journal of Cleaner Production</i> , 2021, 294, 126297.	9.3	21
117	Life cycle water footprint comparison of biomass-to-hydrogen and coal-to-hydrogen processes. <i>Science of the Total Environment</i> , 2021, 773, 145056.	8.0	21
118	Molecular mechanism and extraction performance evaluation of ionic liquids for extraction process of n-heptane/n-propanol. <i>Separation and Purification Technology</i> , 2021, 276, 119342.	7.9	21
119	Energy consumption, environmental performance, and techno-economic feasibility analysis of the biomass-to-hydrogen process with and without carbon capture and storage. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106752.	6.7	21
120	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	20
121	Effect of multi-recycle streams on triple-column pressure-swing distillation optimization. <i>Chemical Engineering Research and Design</i> , 2017, 127, 215-222.	5.6	20
122	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.	9.3	20
123	Insight into separation of azeotrope in wastewater to achieve cleaner production by extractive distillation and pressure-swing distillation based on phase equilibrium. <i>Journal of Cleaner Production</i> , 2020, 276, 124213.	9.3	20
124	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.	7.9	20
125	Molecular Mechanism and Absorption Performance Evaluation of CO ₂ Capture from the PCC Process by Monoethanolamine-Based Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1483-1493.	3.7	20
126	Liquid-Liquid Extraction of Butanol from Heptane + Butanol Mixture by Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 4273-4278.	1.9	19

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127	Liquid-Liquid Equilibrium Data for the Separation of Acetone from <i>n</i> -Heptane Using Four Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 1202-1208.	1.9	18
128	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.	4.9	18
129	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.	2.0	18
130	Sustainable wastewater treatment via PV-distillation hybrid process for the separation of ethyl acetate/isopropanol/water. <i>Separation and Purification Technology</i> , 2021, 257, 117919.	7.9	18
131	Multi-objective optimization of a clean, high-efficiency synthesis process of methyl-ethyl-ketone oxime from ammoximation. <i>Journal of Cleaner Production</i> , 2021, 315, 128176.	9.3	18
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