

Joo A Coutinho

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#	Paper	IF	Citations
7 ¹⁶	Aqueous biphasic systems: a boost brought about by using ionic liquids. <i>Chemical Society Reviews</i> , 2012 , 41, 4966-95	58.5	610
7 ¹⁵	Ionic-Liquid-Mediated Extraction and Separation Processes for Bioactive Compounds: Past, Present, and Future Trends. <i>Chemical Reviews</i> , 2017 , 117, 6984-7052	68.1	492
7 ¹⁴	Hydrolysis of tetrafluoroborate and hexafluorophosphate counter ions in imidazolium-based ionic liquids. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 3744-9	2.8	475
7 ¹³	Surface tensions of imidazolium based ionic liquids: anion, cation, temperature and water effect. <i>Journal of Colloid and Interface Science</i> , 2007 , 314, 621-30	9.3	369
7 ¹²	High-Pressure Densities and Derived Thermodynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 80-88	2.8	357
7 ¹¹	Mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13082-9	3.4	347
7 ¹⁰	Surface tension of ionic liquids and ionic liquid solutions. <i>Chemical Society Reviews</i> , 2012 , 41, 829-68	58.5	318
7 ⁰⁹	Ionic liquid solutions as extractive solvents for value-added compounds from biomass. <i>Green Chemistry</i> , 2014 , 16, 4786-4815	10	289
7 ⁰⁸	Mutual solubilities of water and the [C(n)mim][Tf(2)N] hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1604-10	3.4	289
7 ⁰⁷	Insights into the Nature of Eutectic and Deep Eutectic Mixtures. <i>Journal of Solution Chemistry</i> , 2019 , 48, 962-982	1.8	287
7 ⁰⁶	Ionic liquids: first direct determination of their cohesive energy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 284-5	16.4	278
7 ⁰⁵	An overview of the mutual solubilities of waterimidazolium-based ionic liquids systems. <i>Fluid Phase Equilibria</i> , 2007 , 261, 449-454	2.5	265
7 ⁰⁴	Evaluation of anion influence on the formation and extraction capacity of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9304-10	3.4	264
7 ⁰³	P [∞] Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1881-1888	2.8	257
7 ⁰²	Thermophysical Characterization of Ionic Liquids Able To Dissolve Biomass. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4813-4822	2.8	254
7 ⁰¹	Group contribution methods for the prediction of thermophysical and transport properties of ionic liquids. <i>AIChE Journal</i> , 2009 , 55, 1274-1290	3.6	243
7 ⁰⁰	Extension of the Ye and Shreeve group contribution method for density estimation of ionic liquids in a wide range of temperatures and pressures. <i>Fluid Phase Equilibria</i> , 2008 , 263, 26-32	2.5	243

699	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3983-3990	2.8	238
698	Optimization and characterization of biosurfactant production by <i>Bacillus subtilis</i> isolates towards microbial enhanced oil recovery applications. <i>Fuel</i> , 2013 , 111, 259-268	7.1	233
697	Toxicity assessment of various ionic liquid families towards <i>Vibrio fischeri</i> marine bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 76, 162-8	7	231
696	Evaluation of cation influence on the formation and extraction capability of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 5194-9	3.4	221
695	Densities and Derived Thermodynamic Properties of Imidazolium-, Pyridinium-, Pyrrolidinium-, and Piperidinium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 805-811	2.8	216
694	A group contribution method for viscosity estimation of ionic liquids. <i>Fluid Phase Equilibria</i> , 2008 , 266, 195-201	2.5	210
693	Effect of Water on the Viscosities and Densities of 1-Butyl-3-methylimidazolium Dicyanamide and 1-Butyl-3-methylimidazolium Tricyanomethane at Atmospheric Pressure \square <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 645-652	2.8	200
692	Evaluation of cation-anion interaction strength in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 4033-41	3.4	197
691	Designing ionic liquids: the chemical structure role in the toxicity. <i>Ecotoxicology</i> , 2013 , 22, 1-12	2.9	195
690	High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 1715	10	194
689	Viscosity of (C ₂ –C ₁₄) 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids in an extended temperature range. <i>Fluid Phase Equilibria</i> , 2011 , 301, 22-32	2.5	191
688	Extended scale for the hydrogen-bond basicity of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6593-601	3.6	189
687	Specific solvation interactions of CO ₂ on acetate and trifluoroacetate imidazolium based ionic liquids at high pressures. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6803-12	3.4	186
686	Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1346-1350	2.8	186
685	High-accuracy vapor pressure data of the extended [C(n)C ₁ im][Ntf ₂] ionic liquid series: trend changes and structural shifts. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10919-26	3.4	182
684	Alkylimidazolium based ionic liquids: impact of cation symmetry on their nanoscale structural organization. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10889-97	3.4	168
683	Ion specific effects on the mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 202-11	3.4	168
682	Extraction of biomolecules using phosphonium-based ionic liquids + K ₃ PO ₄ aqueous biphasic systems. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 1777-91	6.3	165

681	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2010 , 75, 39-47	8.3	163
680	Aqueous biphasic systems composed of a water-stable ionic liquid + carbohydrates and their applications. <i>Green Chemistry</i> , 2011 , 13, 1536	10	162
679	Role of the Hofmeister series in the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7252-8	3.4	161
678	Overview of the Liquid-Liquid Equilibria of Ternary Systems Composed of Ionic Liquid and Aromatic and Aliphatic Hydrocarbons, and Their Modeling by COSMO-RS. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3483-3507	3.9	157
677	Ecotoxicity analysis of cholinium-based ionic liquids to <i>Vibrio fischeri</i> marine bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 102, 48-54	7	155
676	Ionic liquids as adjuvants for the tailored extraction of biomolecules in aqueous biphasic systems. <i>Green Chemistry</i> , 2010 , 12, 1661	10	154
675	Systematic study of the thermophysical properties of imidazolium-based ionic liquids with cyano-functionalized anions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10271-83	3.4	153
674	High pressure phase behavior of carbon dioxide in 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and 1-butyl-3-methylimidazolium dicyanamide ionic liquids. <i>Journal of Supercritical Fluids</i> , 2009 , 50, 105-111	4.2	149
673	Insight into the interactions that control the phase behaviour of new aqueous biphasic systems composed of polyethylene glycol polymers and ionic liquids. <i>Chemistry - A European Journal</i> , 2012 , 18, 1831-9	4.8	144
672	Thermophysical properties of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 948-957	2.9	140
671	An Overview of the Liquid-Liquid Equilibria of (Ionic Liquid + Hydrocarbon) Binary Systems and Their Modeling by the Conductor-like Screening Model for Real Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 5279-5294	3.9	139
670	High carbon dioxide solubilities in trihexyltetradecylphosphonium-based ionic liquids. <i>Journal of Supercritical Fluids</i> , 2010 , 52, 258-265	4.2	138
669	Isolation and study of microorganisms from oil samples for application in Microbial Enhanced Oil Recovery. <i>International Biodeterioration and Biodegradation</i> , 2012 , 68, 56-64	4.8	137
668	Biodiesel Density: Experimental Measurements and Prediction Models. <i>Energy & Fuels</i> , 2011 , 25, 2333-2340	4.1	136
667	Applying a QSPR correlation to the prediction of surface tensions of ionic liquids. <i>Fluid Phase Equilibria</i> , 2008 , 265, 57-65	2.5	133
666	Tunable Hydrophobic Eutectic Solvents Based on Terpenes and Monocarboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8836-8846	8.3	133
665	A Group Contribution Method for Heat Capacity Estimation of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 5751-5757	3.9	130
664	Evaluation of activity coefficient models in prediction of alkane solid-liquid equilibria. <i>Fluid Phase Equilibria</i> , 1995 , 103, 23-39	2.5	128

663	Complete removal of textile dyes from aqueous media using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2014 , 128, 58-66	8.3	127
662	Evaluation of COSMO-RS for the prediction of LLE and VLE of water and ionic liquids binary systems. <i>Fluid Phase Equilibria</i> , 2008 , 268, 74-84	2.5	127
661	The magic of aqueous solutions of ionic liquids: ionic liquids as a powerful class of cationic hydrotropes. <i>Green Chemistry</i> , 2015 , 17, 3948-3963	10	126
660	Thermophysical Properties of Five Acetate-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3005-3013	2.8	126
659	Production and characterization of a bioemulsifier from <i>Yarrowia lipolytica</i> . <i>Process Biochemistry</i> , 2006 , 41, 1894-1898	4.8	125
658	Are Aqueous Biphasic Systems Composed of Deep Eutectic Solvents Ternary or Quaternary Systems?. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2881-2886	8.3	124
657	Phenolic hydrogen bond donors in the formation of non-ionic deep eutectic solvents: the quest for type V DES. <i>Chemical Communications</i> , 2019 , 55, 10253-10256	5.8	123
656	Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1914-1921	2.8	123
655	(Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids. <i>Separation and Purification Technology</i> , 2010 , 72, 85-91	8.3	122
654	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. <i>RSC Advances</i> , 2013 , 3, 1835-1843	3.7	121
653	High pressure phase behavior of carbon dioxide in 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Journal of Supercritical Fluids</i> , 2009 , 48, 99-107	4.2	121
652	Surface Tension of Heptane, Decane, Hexadecane, Eicosane, and Some of Their Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1442-1445	2.8	121
651	Mutual solubilities of hydrocarbons and water with the CPA EoS. <i>Fluid Phase Equilibria</i> , 2007 , 258, 58-66	2.5	120
650	Evaluation of COSMO-RS for the prediction of LLE and VLE of alcohols+ionic liquids. <i>Fluid Phase Equilibria</i> , 2007 , 255, 167-178	2.5	118
649	Thermodynamic studies of ionic interactions in aqueous solutions of imidazolium-based ionic liquids [Emim][Br] and [Bmim][Cl]. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3380-9	3.4	116
648	Predictive methods for the estimation of thermophysical properties of ionic liquids. <i>RSC Advances</i> , 2012 , 2, 7322	3.7	114
647	Separation of ethanol/water mixtures by liquid-liquid extraction using phosphonium-based ionic liquids. <i>Green Chemistry</i> , 2011 , 13, 1517	10	113
646	Electrospun nanosized cellulose fibers using ionic liquids at room temperature. <i>Green Chemistry</i> , 2011 , 13, 3173	10	111

645	Tryptophan extraction using hydrophobic ionic liquids. <i>Separation and Purification Technology</i> , 2010 , 72, 167-173	8.3	111
644	Understanding the impact of the central atom on the ionic liquid behavior: phosphonium vs ammonium cations. <i>Journal of Chemical Physics</i> , 2014 , 140, 064505	3.9	109
643	¹ H NMR and molecular dynamics evidence for an unexpected interaction on the origin of salting-in/salting-out phenomena. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2004-14	3.4	109
642	Assessing the toxicity on [C3mim][Tf2N] to aquatic organisms of different trophic levels. <i>Aquatic Toxicology</i> , 2010 , 96, 290-7	5.1	109
641	Carbon dioxide in 1-butyl-3-methylimidazolium acetate. I. Unusual solubility investigated by Raman spectroscopy and DFT calculations. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 1605-20	2.8	107
640	Ionic liquids as additives to enhance the extraction of antioxidants in aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2014 , 128, 1-10	8.3	106
639	Supported ionic liquid silica nanoparticles (SILnPs) as an efficient and recyclable heterogeneous catalyst for the dehydration of fructose to 5-hydroxymethylfurfural. <i>Green Chemistry</i> , 2011 , 13, 340	10	105
638	Enhanced extraction of caffeine from guaran seeds using aqueous solutions of ionic liquids. <i>Green Chemistry</i> , 2013 , 15, 2002	10	104
637	Structural and Positional Isomerism Influence in the Physical Properties of Pyridinium NTf ₂ -Based Ionic Liquids: Pure and Water-Saturated Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4514-4520	2.8	104
636	Prediction of aqueous solubilities of solid carboxylic acids with COSMO-RS. <i>Fluid Phase Equilibria</i> , 2010 , 289, 140-147	2.5	102
635	Predictive UNIQUAC: A New Model for the Description of Multiphase Solid-Liquid Equilibria in Complex Hydrocarbon Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 4870-4875	3.9	102
634	Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2378-2382	2.8	101
633	Biosurfactant-producing and oil-degrading <i>Bacillus subtilis</i> strains enhance oil recovery in laboratory sand-pack columns. <i>Journal of Hazardous Materials</i> , 2013 , 261, 106-13	12.8	99
632	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2012 , 97, 142-149	8.3	98
631	Vapor-Liquid Equilibrium of Carbon Dioxide-Perfluoroalkane Mixtures: Experimental Data and SAFT Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 2341-2350	3.9	95
630	Enhanced Solubility of Lignin Monomeric Model Compounds and Technical Lignins in Aqueous Solutions of Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4056-4065	8.3	94
629	Environmental safety of cholinium-based ionic liquids: assessing structure-ecotoxicity relationships. <i>Green Chemistry</i> , 2015 , 17, 4657-4668	10	93
628	CO ₂ in 1-butyl-3-methylimidazolium acetate. 2. NMR investigation of chemical reactions. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4890-901	2.8	93

627	Production and purification of an extracellular lipolytic enzyme using ionic liquid-based aqueous two-phase systems. <i>Green Chemistry</i> , 2012 , 14, 734	10	93
626	High pressure CO ₂ solubility in N-methyl-2-hydroxyethylammonium protic ionic liquids. <i>Journal of Supercritical Fluids</i> , 2011 , 56, 224-230	4.2	93
625	Densities and Viscosities of Minority Fatty Acid Methyl and Ethyl Esters Present in Biodiesel. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2175-2180	2.8	92
624	Salting-out effects in aqueous ionic liquid solutions: cloud-point temperature shifts. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4737-41	3.4	92
623	Extraction of tetracycline from fermentation broth using aqueous two-phase systems composed of polyethylene glycol and cholinium-based salts. <i>Process Biochemistry</i> , 2013 , 48, 716-722	4.8	90
622	On the Nonideality of CO ₂ Solutions in Ionic Liquids and Other Low Volatile Solvents. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 774-780	6.4	90
621	Inelastic neutron scattering study of reline: shedding light on the hydrogen bonding network of deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17998-18009	3.6	89
620	Ionic Liquid Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Cation Effect. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4253-4260	2.8	89
619	Novel biocompatible and self-buffering ionic liquids for biopharmaceutical applications. <i>Chemistry - A European Journal</i> , 2015 , 21, 4781-8	4.8	88
618	On the spontaneous carboxylation of 1-butyl-3-methylimidazolium acetate by carbon dioxide. <i>Chemical Communications</i> , 2012 , 48, 1245-7	5.8	86
617	Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2828-2843	2.8	85
616	Characterization of aqueous biphasic systems composed of ionic liquids and a citrate-based biodegradable salt. <i>Biochemical Engineering Journal</i> , 2012 , 67, 68-76	4.2	85
615	Good's buffers as a basis for developing self-buffering and biocompatible ionic liquids for biological research. <i>Green Chemistry</i> , 2014 , 16, 3149-3159	10	84
614	Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. <i>Green Chemistry</i> , 2014 , 16, 259-268	10	84
613	Probing the interactions between ionic liquids and water: experimental and quantum chemical approach. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1848-60	3.4	84
612	Ecotoxicity of Cholinium-Based Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3398-3404	8.3	83
611	Hydrogen-bond acidity of ionic liquids: an extended scale. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18980-90	3.6	82
610	The polarity effect upon the methane solubility in ionic liquids: a contribution for the design of ionic liquids for enhanced CO ₂ /CH ₄ and H ₂ S/CH ₄ selectivities. <i>Energy and Environmental Science</i> , 2011 , 4, 4614	35.4	82

609	(Eco)toxicity and biodegradability of protic ionic liquids. <i>Chemosphere</i> , 2016 , 147, 460-6	8.4	81
608	Thermophysical properties of sulfonium- and ammonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014 , 381, 36-45	2.5	80
607	Design of ionic liquids for lipase purification. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 2679-87	3.2	80
606	Enhanced extraction of proteins using cholinium-based ionic liquids as phase-forming components of aqueous biphasic systems. <i>Biotechnology Journal</i> , 2015 , 10, 1457-66	5.6	79
605	Critical assessment of the formation of ionic-liquid-based aqueous two-phase systems in acidic media. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 11145-53	3.4	79
604	Surface Tensions of Bis(trifluoromethylsulfonyl)imide Anion-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3807-3812	2.8	78
603	Phase equilibria of glycerol containing systems and their description with the Cubic-Plus-Association (CPA) Equation of State. <i>Fluid Phase Equilibria</i> , 2009 , 280, 22-29	2.5	78
602	Surface tension of chain molecules through a combination of the gradient theory with the CPA EoS. <i>Fluid Phase Equilibria</i> , 2008 , 267, 83-91	2.5	78
601	Prediction of Cloud Points of Biodiesel. <i>Energy & Fuels</i> , 2008 , 22, 747-752	4.1	77
600	Towards an understanding of the mutual solubilities of water and hydrophobic ionic liquids in the presence of salts: the anion effect. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 2815-25	3.4	76
599	Viscosity and Liquid Density of Asymmetric Hydrocarbon Mixtures. <i>International Journal of Thermophysics</i> , 2003 , 24, 1221-1239	2.1	76
598	Binary interaction parameters for nonpolar systems with cubic equations of state: a theoretical approach 1. CO ₂ /hydrocarbons using SRK equation of state. <i>Fluid Phase Equilibria</i> , 1994 , 102, 31-60	2.5	76
597	Combining ionic liquids and polyethylene glycols to boost the hydrophobic-hydrophilic range of aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19580-3	3.6	75
596	Solubility of oxygen in liquid perfluorocarbons. <i>Fluid Phase Equilibria</i> , 2004 , 222-223, 325-330	2.5	75
595	Molecular interactions in aqueous biphasic systems composed of polyethylene glycol and crystalline vs. liquid cholinium-based salts. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5723-31	3.6	74
594	Surface tension and refractive index of pure and water-saturated tetradecyltriethylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013 , 57, 372-379	2.9	74
593	High pressure solubility data of carbon dioxide in (tri-iso-butyl(methyl)phosphonium tosylate + water) systems. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 1187-1192	2.9	74
592	Non-ideal behaviour of a room temperature ionic liquid in an alkoxyethanol or poly ethers at T=(298.15 to 318.15)K. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 32-39	2.9	74

591	Solid-Liquid equilibrium of Dactose in ethanol/water. <i>Fluid Phase Equilibria</i> , 2000 , 173, 121-134	2.5	74
590	Sustainable hydrophobic terpene-based eutectic solvents for the extraction and separation of metals. <i>Chemical Communications</i> , 2018 , 54, 8104-8107	5.8	74
589	Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 83, 55-62	7	73
588	Evaluation of Predictive Models for the Viscosity of Biodiesel. <i>Energy & Fuels</i> , 2011 , 25, 352-358	4.1	73
587	Solubility of non-aromatic ionic liquids in water and correlation using a QSPR approach. <i>Fluid Phase Equilibria</i> , 2010 , 294, 234-240	2.5	73
586	Prediction of Water Solubility in Biodiesel with the CPA Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 4278-4285	3.9	73
585	Aqueous biphasic systems composed of ionic liquids and polymers: A platform for the purification of biomolecules. <i>Separation and Purification Technology</i> , 2013 , 113, 83-89	8.3	72
584	Viscosity and Liquid Density of Asymmetric n-Alkane Mixtures: Measurement and Modeling. <i>International Journal of Thermophysics</i> , 2005 , 26, 47-61	2.1	72
583	Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. <i>Fluid Phase Equilibria</i> , 2017 , 448, 15-21	2.5	71
582	Acoustic and volumetric properties of aqueous solutions of imidazolium based ionic liquids at 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 695-701	2.9	71
581	The Limitations of the Cloud Point Measurement Techniques and the Influence of the Oil Composition on Its Detection. <i>Petroleum Science and Technology</i> , 2005 , 23, 1113-1128	1.4	71
580	Predictive Local Composition Models for Solid/Liquid Equilibrium in n-Alkane Systems: Wilson Equation for Multicomponent Systems. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 918-925	2.9	71
579	Thermophysical Properties and Water Saturation of [PF6]-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5065-5073	2.8	70
578	Vapor-Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3737-3748	3.9	69
577	Sustainable design for environment-friendly mono and dicationic cholinium-based ionic liquids. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 108, 302-10	7	69
576	Mutual solubility of water and structural/positional isomers of N-alkylpyridinium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 15925-34	3.4	69
575	A local composition model for paraffinic solid solutions. <i>Chemical Engineering Science</i> , 1996 , 51, 3273-3282	1.4	69
574	Improved recovery of ionic liquids from contaminated aqueous streams using aluminium-based salts. <i>RSC Advances</i> , 2012 , 2, 10882	3.7	68

573	Dynamic rheological analysis of the gelation behaviour of waxy crude oils. <i>Rheologica Acta</i> , 2004 , 43, 433-441	2.3	68
572	SAFT Modeling of the Solubility of Gases in Perfluoroalkanes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1450-1457	3.4	68
571	Dispelling some myths about the CO ₂ solubility in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14757-71	3.6	68
570	Lipase purification using ionic liquids as adjuvants in aqueous two-phase systems. <i>Green Chemistry</i> , 2015 , 17, 3026-3034	10	67
569	Evaluation of the impact of phosphate salts on the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 398-405	2.9	67
568	The solid-liquid phase diagrams of binary mixtures of consecutive, even saturated fatty acids. <i>Chemistry and Physics of Lipids</i> , 2009 , 160, 85-97	3.7	67
567	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids. <i>Fluid Phase Equilibria</i> , 2017 , 448, 69-80	2.5	66
566	The impact of self-aggregation on the extraction of biomolecules in ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2013 , 108, 174-180	8.3	66
565	Design and Characterization of Sugar-Based Deep Eutectic Solvents Using Conductor-like Screening Model for Real Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10724-10734	8.3	65
564	Cation alkyl side chain length and symmetry effects on the surface tension of ionic liquids. <i>Langmuir</i> , 2014 , 30, 6408-18	4	65
563	Cation symmetry effect on the volatility of ionic liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10922-7	3.4	65
562	Salting-in with a salting-out agent: explaining the cation specific effects on the aqueous solubility of amino acids. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6116-28	3.4	65
561	Experimental Measurements and Thermodynamic Modeling of Paraffinic Wax Formation in Undercooled Solutions. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4977-4983	3.9	65
560	Measurements and modelling of wax formation in diesel fuels. <i>Fuel</i> , 2000 , 79, 607-616	7.1	65
559	High-Pressure Biodiesel Density: Experimental Measurements, Correlation, and Cubic-Plus-Association Equation of State (CPA EoS) Modeling. <i>Energy & Fuels</i> , 2011 , 25, 3806-3814	4.1	64
558	Estimation of speed of sound of ionic liquids using surface tensions and densities: A volume based approach. <i>Fluid Phase Equilibria</i> , 2008 , 267, 188-192	2.5	64
557	Overview of the Excess Enthalpies of the Binary Mixtures Composed of Molecular Solvents and Ionic Liquids and Their Modeling Using COSMO-RS. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 13862-13874	3.9	63
556	Long-term protein packaging in bio-ionic liquids: Improved catalytic activity and enhanced stability of cytochrome C against multiple stresses. <i>Green Chemistry</i> , 2017 , 19, 4900-4911	10	63

555	Imidazolium and Pyridinium Ionic Liquids From Mandelic Acid Derivatives: Synthesis and Bacteria and Algae Toxicity Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 393-402	8.3	63
554	Aging mechanisms of perfluorocarbon emulsions using image analysis. <i>Journal of Colloid and Interface Science</i> , 2005 , 286, 224-32	9.3	62
553	Enhanced extraction of phenolic compounds using choline chloride based deep eutectic solvents from <i>Juglans regia</i> L.. <i>Industrial Crops and Products</i> , 2018 , 115, 261-271	5.9	61
552	Prediction of solid-liquid phase diagrams of light gases-heavy paraffin systems up to 200 MPa using an equation of state-E model. <i>Fluid Phase Equilibria</i> , 2000 , 167, 145-159	2.5	61
551	Predictive local composition models: NRTL and UNIQUAC and their application to model solid-liquid equilibrium of n-alkanes. <i>Fluid Phase Equilibria</i> , 1999 , 158-160, 447-457	2.5	61
550	Ionic-Liquid-Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Anion Effect. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 507-512	2.8	60
549	Solubility of CO ₂ in 1-butyl-3-methyl-imidazolium-trifluoro acetate ionic liquid studied by Raman spectroscopy and DFT investigations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3538-50	3.4	60
548	Evaluation of the CO ₂ behavior in binary mixtures with alkanes, alcohols, acids and esters using the Cubic-Plus-Association Equation of State. <i>Journal of Supercritical Fluids</i> , 2011 , 55, 876-892	4.2	60
547	Recovery of phycobiliproteins from the red macroalga <i>Gracilaria</i> sp. using ionic liquid aqueous solutions. <i>Green Chemistry</i> , 2016 , 18, 4287-4296	10	59
546	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1563-1566	16.4	59
545	Ionic liquid enhanced oil recovery in sand-pack columns. <i>Fuel</i> , 2014 , 134, 196-200	7.1	58
544	Influence of the anion on the surface tension of 1-ethyl-3-methylimidazolium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 49-54	2.9	58
543	Densities and Vapor Pressures of Highly Fluorinated Compounds. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1328-1333	2.8	58
542	Enhanced extraction of bovine serum albumin with aqueous biphasic systems of phosphonium- and ammonium-based ionic liquids. <i>Journal of Biotechnology</i> , 2015 , 206, 17-25	3.7	57
541	Design of novel aqueous micellar two-phase systems using ionic liquids as co-surfactants for the selective extraction of (bio)molecules. <i>Separation and Purification Technology</i> , 2014 , 135, 259-267	8.3	57
540	Thermophysical properties of [CN ₄ C1im][PF ₆] ionic liquids. <i>Journal of Molecular Liquids</i> , 2013 , 188, 196-202		57
539	Speed of Sound, Density, and Derivative Properties of Ethyl Myristate, Methyl Myristate, and Methyl Palmitate under High Pressure. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1371-1377	2.8	57
538	Optimization of oxygen mass transfer in a multiphase bioreactor with perfluorodecalin as a second liquid phase. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 588-98	4.9	57

537	Optimization and modeling of laccase production by <i>Trametes versicolor</i> in a bioreactor using statistical experimental design. <i>Applied Biochemistry and Biotechnology</i> , 2006 , 134, 233-48	3.2	57
536	Cloud Points: Can We Measure or Model Them?. <i>Petroleum Science and Technology</i> , 2003 , 21, 345-358	1.4	57
535	Low-Pressure Modeling of Wax Formation in Crude Oils. <i>Energy & Fuels</i> , 2001 , 15, 1454-1460	4.1	57
534	Solid-Liquid-Vapor Phase Boundary of a North Sea Waxy Crude: Measurement and Modeling. <i>Energy & Fuels</i> , 2001 , 15, 730-735	4.1	57
533	Extraction and stability of bovine serum albumin (BSA) using cholinium-based Good's buffers ionic liquids. <i>Process Biochemistry</i> , 2015 , 50, 1158-1166	4.8	56
532	The effect of the cation alkyl chain branching on mutual solubilities with water and toxicities. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19952-63	3.6	56
531	Heat capacities at 298.15K of the extended [CnC1im][Ntf2] ionic liquid series. <i>Journal of Chemical Thermodynamics</i> , 2012 , 53, 140-143	2.9	56
530	Effect of ionic liquids as adjuvants on PEG-based ABS formation and the extraction of two probe dyes. <i>Fluid Phase Equilibria</i> , 2014 , 375, 30-36	2.5	55
529	Ionic-liquid-based aqueous biphasic systems for improved detection of bisphenol A in human fluids. <i>Analytical Methods</i> , 2012 , 4, 2664	3.2	55
528	Ionic liquids microemulsions: the key to <i>Candida antarctica</i> lipase B superactivity. <i>Green Chemistry</i> , 2012 , 14, 1620	10	55
527	Molecular dynamics simulation studies of the interactions between ionic liquids and amino acids in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1831-42	3.4	55
526	Analysis of the Isothermal Structure Development in Waxy Crude Oils under Quiescent Conditions. <i>Energy & Fuels</i> , 2007 , 21, 3612-3617	4.1	55
525	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31653-31661	3.6	54
524	Protic ionic liquid as additive on lipase immobilization using silica sol-gel. <i>Enzyme and Microbial Technology</i> , 2013 , 52, 141-50	3.8	54
523	Surface tension of binary mixtures of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids: experimental measurements and soft-SAFT modeling. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 12133-41	3.4	54
522	The solid-Liquid phase diagrams of binary mixtures of even saturated fatty acids differing by six carbon atoms. <i>Thermochimica Acta</i> , 2009 , 496, 30-37	2.9	54
521	Liquid-Liquid equilibria for the canola oil biodiesel + ethanol + glycerol system. <i>Fuel</i> , 2011 , 90, 2738-2745	7.1	54
520	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. <i>ChemSusChem</i> , 2018 , 11, 753-762	8.3	53

519	Modeling the [NTf ₂] pyridinium ionic liquids family and their mixtures with the soft statistical associating fluid theory equation of state. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9089-100	3.4	53
518	Decolorization of dyes from textile wastewater by <i>Trametes versicolor</i> . <i>Environmental Technology (United Kingdom)</i> , 2004 , 25, 1313-20	2.6	53
517	Indirect assessment of the fusion properties of choline chloride from solid-liquid equilibria data. <i>Fluid Phase Equilibria</i> , 2017 , 448, 9-14	2.5	52
516	Thermoreversible (Ionic-Liquid-Based) Aqueous Biphasic Systems. <i>Scientific Reports</i> , 2016 , 6, 20276	4.9	52
515	On the interactions between amino acids and ionic liquids in aqueous media. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13971-9	3.4	52
514	Surface Tension of Liquid Fluorocompounds. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1820-1824	2.8	52
513	Modeling vapor-liquid interfaces with the gradient theory in combination with the CPA equation of state. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 479-485	2.5	52
512	Laccase improvement in submerged cultivation: induced production and kinetic modelling. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 669-676	3.5	52
511	Effect of the cation on the interactions between alkyl methyl imidazolium chloride ionic liquids and water. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10503-14	3.4	51
510	The effect of the cation aromaticity upon the thermophysical properties of piperidinium- and pyridinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014 , 375, 80-88	2.5	51
509	Isolation of natural red colorants from fermented broth using ionic liquid-based aqueous two-phase systems. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013 , 40, 507-16	4.2	51
508	Assessing the activity coefficients of water in cholinium-based ionic liquids: Experimental measurements and COSMO-RS modeling. <i>Fluid Phase Equilibria</i> , 2014 , 361, 16-22	2.5	51
507	Increased significance of food wastes: selective recovery of added-value compounds. <i>Food Chemistry</i> , 2012 , 135, 2453-61	8.5	51
506	Impact of self-aggregation on the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7660-8	3.4	51
505	Study of the pseudo-ternary aqueous two-phase systems of deep eutectic solvent (choline chloride:sugars) + K ₂ HPO ₄ + water. <i>Fluid Phase Equilibria</i> , 2017 , 448, 143-151	2.5	50
504	Optimization and comparison of maceration and microwave extraction systems for the production of phenolic compounds from <i>Juglans regia</i> L. for the valorization of walnut leaves. <i>Industrial Crops and Products</i> , 2017 , 107, 341-352	5.9	50
503	Thermophysical properties of phosphonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2015 , 400, 103-113	3.5	50
502	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1010-1019	2.6	50

- 501 Laccase Activation in Deep Eutectic Solvents. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11806-11814
- 500 Superactivity induced by micellar systems as the key for boosting the yield of enzymatic reactions. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 107, 140-151 49
- 499 Aqueous two-phase systems based on cholinium salts and tetrahydrofuran and their use for lipase purification. *Separation and Purification Technology*, **2015**, 155, 118-126 8.3 49
- 498 The solid-liquid phase diagrams of binary mixtures of consecutive, even saturated fatty acids: differing by four carbon atoms. *Chemistry and Physics of Lipids*, **2009**, 157, 40-50 3.7 49
- 497 Reliable Wax Predictions for Flow Assurance. *Energy & Fuels*, **2006**, 20, 1081-1088 4.1 49
- 496 Improving the extraction and purification of immunoglobulin G by the use of ionic liquids as adjuvants in aqueous biphasic systems. *Journal of Biotechnology*, **2016**, 236, 166-175 3.7 49
- 495 Cytotoxicity profiling of deep eutectic solvents to human skin cells. *Scientific Reports*, **2019**, 9, 3932 4.9 48
- 494 Wax content measurements in partially frozen paraffinic systems. *Fluid Phase Equilibria*, **1999**, 161, 135-151 4.8
- 493 Ionic liquids for thiols desulfurization: Experimental liquid-liquid equilibrium and COSMO-RS description. *Fuel*, **2014**, 128, 314-329 7.1 47
- 492 Predicting enthalpies of vaporization of aprotic ionic liquids with COSMO-RS. *Fluid Phase Equilibria*, **2014**, 370, 24-33 2.5 47
- 491 Phase diagrams of ionic liquids-based aqueous biphasic systems as a platform for extraction processes. *Journal of Chemical Thermodynamics*, **2014**, 77, 206-213 2.9 47
- 490 Aqueous biphasic systems composed of ionic liquids and sodium carbonate as enhanced routes for the extraction of tetracycline. *Biotechnology Progress*, **2013**, 29, 645-54 2.8 47
- 489 Concentration effect of hydrophilic ionic liquids on the enzymatic activity of *Candida antarctica* lipase B. *World Journal of Microbiology and Biotechnology*, **2012**, 28, 2303-10 4.4 47
- 488 Phase Equilibria of Ethylene Glycol Oligomers and Their Mixtures. *Industrial & Engineering Chemistry Research*, **2005**, 44, 7027-7037 3.9 47
- 487 Thermodynamic properties of perfluoro-n-octane. *Fluid Phase Equilibria*, **2004**, 225, 39-47 2.5 47
- 486 Fatty acids profiles as indicators of stress induced by of a common herbicide on two marine bivalves species: *Cerastoderma edule* (Linnaeus, 1758) and *Scrobicularia plana* (da Costa, 1778). *Ecological Indicators*, **2016**, 63, 209-218 5.8 46
- 485 Biosurfactants from yeasts: characteristics, production and application. *Advances in Experimental Medicine and Biology*, **2010**, 672, 236-49 3.6 46
- 484 Low-Temperature Behavior of Biodiesel: Solid-Liquid Phase Diagrams of Binary Mixtures Composed of Fatty Acid Methyl Esters. *Energy & Fuels*, **2011**, 25, 3244-3250 4.1 46

483	Thermodynamic characterization of pure perfluoroalkanes, including interfacial and second order derivative properties, using the crossover soft-SAFT EoS. <i>Fluid Phase Equilibria</i> , 2009 , 286, 134-143	2.5	46
482	Study of the impact of high temperatures and pressures on the equilibrium densities and interfacial tension of the carbon dioxide/water system. <i>Journal of Chemical Thermodynamics</i> , 2016 , 93, 404-415	2.9	45
481	Thermophysical Properties of Glycols and Glymes. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3721-3737	2.8	45
480	Mutual solubilities between water and non-aromatic sulfonium-, ammonium- and phosphonium-hydrophobic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4569-77	3.6	45
479	Liquid-Liquid equilibrium of (perfluoroalkane+alkane) binary mixtures. <i>Fluid Phase Equilibria</i> , 2006 , 242, 210-219	2.5	45
478	Measurement and modeling of surface tensions of asymmetric systems: heptane, eicosane, docosane, tetracosane and their mixtures. <i>Fluid Phase Equilibria</i> , 2003 , 214, 211-221	2.5	45
477	Enhanced dissolution of ibuprofen using ionic liquids as cationic hydrotropes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2094-2103	3.6	43
476	Degradation of imidazolium-based ionic liquids in aqueous solution by Fenton oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1197-1202	3.5	43
475	Surface tensions of binary mixtures of ionic liquids with bis(trifluoromethylsulfonyl)imide as the common anion. <i>Journal of Chemical Thermodynamics</i> , 2013 , 64, 22-27	2.9	43
474	Ecotoxicological risk profile of ionic liquids: octanol-water distribution coefficients and toxicological data. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 957-963	3.5	43
473	A new predictive UNIQUAC for modeling of wax formation in hydrocarbon fluids. <i>Fluid Phase Equilibria</i> , 2006 , 247, 8-17	2.5	43
472	Evidence For the Aging of Wax Deposits in Crude Oils by Ostwald Ripening. <i>Petroleum Science and Technology</i> , 2003 , 21, 381-391	1.4	43
471	Liquid-Solid equilibria under high pressure of tetradecane+pentadecane and tetradecane+hexadecane binary systems. <i>Fluid Phase Equilibria</i> , 2005 , 235, 173-181	2.5	43
470	Recovery of metals from waste electrical and electronic equipment (WEEE) using unconventional solvents based on ionic liquids. <i>Critical Reviews in Environmental Science and Technology</i> , 2018 , 48, 859-922	11.1	43
469	Unraveling the ecotoxicity of deep eutectic solvents using the mixture toxicity theory. <i>Chemosphere</i> , 2018 , 212, 890-897	8.4	43
468	Biochemical and populational responses of an aquatic bioindicator species, <i>Daphnia longispina</i> , to a commercial formulation of a herbicide (Primextra [®] Gold TZ) and its active ingredient (S-metolachlor). <i>Ecological Indicators</i> , 2015 , 53, 220-230	5.8	42
467	Phase diagrams of mixtures of ethyl palmitate with fatty acid ethyl esters. <i>Fuel</i> , 2012 , 91, 177-181	7.1	42
466	Measurement and Prediction of Biodiesel Surface Tensions. <i>Energy & Fuels</i> , 2011 , 25, 4811-4817	4.1	42

465	Cloud and pour points in fuel blends. <i>Fuel</i> , 2002 , 81, 963-967	7.1	42
464	Surface tension of pure heavy n-alkanes: a corresponding states approach. <i>Fluid Phase Equilibria</i> , 2001 , 183-184, 229-238	2.5	42
463	Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. <i>Green Chemistry</i> , 2016 , 18, 4582-4604	10	42
462	Vapor-Liquid Equilibria of Imidazolium Ionic Liquids with Cyano Containing Anions with Water and Ethanol. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10287-303	3.4	41
461	Novel bioemulsifier produced by a Paenibacillus strain isolated from crude oil. <i>Microbial Cell Factories</i> , 2015 , 14, 14	6.4	41
460	Evaluating Self-buffering Ionic Liquids for Biotechnological Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3420-3428	8.3	41
459	Is It Possible To Create Ternary-like Aqueous Biphasic Systems with Deep Eutectic Solvents?. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9402-9411	8.3	41
458	Liquid-Liquid equilibria for ternary systems containing ethyl esters, ethanol and glycerol at 323.15 and 353.15K. <i>Fuel</i> , 2012 , 94, 386-394	7.1	41
457	Measurement and prediction of the speed of sound of biodiesel fuels. <i>Fuel</i> , 2013 , 103, 1018-1022	7.1	41
456	Description of the mutual solubilities of fatty acids and water with the CPA EoS. <i>AIChE Journal</i> , 2009 , 55, 1604-1613	3.6	41
455	Cell surface characterization of <i>Yarrowia lipolytica</i> IMUFRJ 50682. <i>Yeast</i> , 2006 , 23, 867-77	3.4	41
454	Characterization and Modeling of the Liquid Phase of Deep Eutectic Solvents Based on Fatty Acids/Alcohols and Choline Chloride. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12192-12202	3.9	40
453	One-step extraction and concentration of estrogens for an adequate monitoring of wastewater using ionic-liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , 2015 , 17, 2570-2579	10	40
452	Aqueous biphasic systems composed of ionic liquids and polypropylene glycol: insights into their liquid-liquid demixing mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20571-20582	3.6	40
451	Selection of Ionic Liquids to be Used as Separation Agents for Terpenes and Terpenoids. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 548-556	8.3	40
450	Designing ionic liquids for absorptive cooling. <i>Green Chemistry</i> , 2014 , 16, 3741	10	40
449	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures: Thermal treatment effect. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 616-625	2.6	40
448	Measurement and prediction of temperature and pressure effect on wax content in a partially frozen paraffinic system. <i>Fluid Phase Equilibria</i> , 2001 , 187-188, 71-82	2.5	40

447	A Thermodynamic Model for Predicting Wax Formation in Jet and Diesel Fuels. <i>Energy & Fuels</i> , 2000 , 14, 625-631	4.1	40
446	A new microbullimeter for the measurement of the vapor-liquid equilibrium of ionic liquid systems. <i>Fluid Phase Equilibria</i> , 2013 , 354, 156-165	2.5	39
445	Phase Equilibria of Ester + Alcohol Systems and Their Description with the Cubic-Plus-Association Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 3452-3458	3.9	39
444	Crystallization Behavior of Mixtures of Fatty Acid Ethyl Esters with Ethyl Stearate. <i>Energy & Fuels</i> , 2009 , 23, 4625-4629	4.1	39
443	High pressure phase equilibria in methane+waxy systems. <i>Fluid Phase Equilibria</i> , 2007 , 255, 193-199	2.5	39
442	Prediction of viscosities and surface tensions of fuels using a new corresponding states model. <i>Fuel</i> , 2006 , 85, 874-877	7.1	39
441	Enhanced Conversion of Xylan into Furfural using Acidic Deep Eutectic Solvents with Dual Solvent and Catalyst Behavior. <i>ChemSusChem</i> , 2020 , 13, 784-790	8.3	39
440	Alkaloids as Alternative Probes To Characterize the Relative Hydrophobicity of Aqueous Biphasic Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1512-1520	8.3	38
439	Recovery of paracetamol from pharmaceutical wastes. <i>Separation and Purification Technology</i> , 2014 , 122, 315-322	8.3	38
438	High pressure separation of greenhouse gases from air with 1-ethyl-3-methylimidazolium methyl-phosphonate. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 19, 299-309	4.2	38
437	Novel aqueous two-phase systems based on tetrahydrofuran and potassium phosphate buffer for purification of lipase. <i>Process Biochemistry</i> , 2015 , 50, 1459-1467	4.8	38
436	Carbon dioxide solubility in aqueous solutions of NaCl: Measurements and modeling with electrolyte equations of state. <i>Fluid Phase Equilibria</i> , 2015 , 388, 100-106	2.5	38
435	Density and Viscosity Data for Binary Mixtures of 1-Alkyl-3-methylimidazolium Alkylsulfates + Water. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3473-3482	2.8	38
434	Chameleonic behavior of ionic liquids and its impact on the estimation of solubility parameters. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12879-88	3.4	38
433	Prediction of Viscosities of Fatty Compounds and Biodiesel by Group Contribution. <i>Energy & Fuels</i> , 2011 , 25, 3712-3717	4.1	38
432	Effect of hyperbaric stress on yeast morphology: study by automated image analysis. <i>Applied Microbiology and Biotechnology</i> , 2004 , 66, 318-24	5.7	38
431	Aqueous two-phase systems: Towards novel and more disruptive applications. <i>Fluid Phase Equilibria</i> , 2020 , 505, 112341	2.5	38
430	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. <i>Molecules</i> , 2020 , 25,	4.8	38

429	Measurements of activity coefficients at infinite dilution of organic solutes and water on polar imidazolium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 194-203	2.9	37
428	Designer solvent ability of alcohols in aqueous biphasic systems composed of deep eutectic solvents and potassium phosphate. <i>Separation and Purification Technology</i> , 2018 , 200, 84-93	8.3	37
427	Enhancing the adsorption of ionic liquids onto activated carbon by the addition of inorganic salts. <i>Chemical Engineering Journal</i> , 2014 , 252, 305-310	14.7	37
426	Impact of Surface Active Ionic Liquids on the Cloud Points of Nonionic Surfactants and the Formation of Aqueous Micellar Two-Phase Systems. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8742-8755	3.4	37
425	Measurements and Correlation of High-Pressure Densities of Phosphonium Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2205-2217	2.8	37
424	Greener Terpene/Terpene Eutectic Mixtures as Hydrophobic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17414-17423	8.3	36
423	Controlling the Formation of Ionic-Liquid-based Aqueous Biphasic Systems by Changing the Hydrogen-Bonding Ability of Polyethylene Glycol End Groups. <i>ChemPhysChem</i> , 2015 , 16, 2219-25	3.2	36
422	Enhancing the antioxidant characteristics of phenolic acids by their conversion into cholinium salts. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2558-2565	8.3	36
421	Measurement and prediction of high-pressure viscosities of biodiesel fuels. <i>Fuel</i> , 2014 , 122, 223-228	7.1	36
420	Ionic liquid-based three phase partitioning (ILTPP) systems: Ionic liquid recovery and recycling. <i>Fluid Phase Equilibria</i> , 2014 , 371, 67-74	2.5	36
419	Terpenes solubility in water and their environmental distribution. <i>Journal of Molecular Liquids</i> , 2017 , 241, 996-1002	6	36
418	Vapor pressures of 1,3-dialkylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids with long alkyl chains. <i>Journal of Chemical Physics</i> , 2014 , 141, 134502	3.9	36
417	Measurement and Modeling of Biodiesel Cold-Flow Properties. <i>Energy & Fuels</i> , 2010 , 24, 2667-2674	4.1	36
416	The pressure effect on the wax formation in diesel fuel?. <i>Fuel</i> , 2003 , 82, 595-601	7.1	36
415	Cloud point extraction of chlorophylls from spinach leaves using aqueous solutions of non-ionic surfactants. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 590-599	8.3	36
414	Effective separation of aromatic and aliphatic amino acids mixtures using ionic-liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , 2017 , 19, 1850-1854	10	35
413	Assessing the N ₂ O/CO ₂ high pressure separation using ionic liquids with the soft-SAFT EoS. <i>Journal of Supercritical Fluids</i> , 2014 , 92, 231-241	4.2	35
412	A critical approach to viscosity index. <i>Fuel</i> , 2009 , 88, 2199-2206	7.1	35

411	Novel insights into biomass delignification with acidic deep eutectic solvents: a mechanistic study of C-O-4 ether bond cleavage and the role of the halide counterion in the catalytic performance. <i>Green Chemistry</i> , 2020 , 22, 2474-2487	10	34
410	An integrated process for enzymatic catalysis allowing product recovery and enzyme reuse by applying thermoreversible aqueous biphasic systems. <i>Green Chemistry</i> , 2018 , 20, 1218-1223	10	34
409	The Role of Polyfunctionality in the Formation of [Ch]Cl-Carboxylic Acid-Based Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11195-11209	3.9	34
408	Generating Ionic Liquids from Ionic Solids: An Investigation of the Melting Behavior of Binary Mixtures of Ionic Liquids. <i>Crystal Growth and Design</i> , 2014 , 14, 4270-4277	3.5	34
407	Development of simple and transferable molecular models for biodiesel production with the soft-SAFT equation of state. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 2898-2911	5.5	34
406	Thermophysical characterization of N-methyl-2-hydroxyethylammonium carboxylate ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 221-234	2.9	34
405	Solubility of water in fluorocarbons: Experimental and COSMO-RS prediction results. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 213-219	2.9	34
404	High pressure (solid+liquid) equilibria of n-alkane mixtures: experimental results, correlation and prediction. <i>Fluid Phase Equilibria</i> , 2005 , 230, 72-80	2.5	34
403	Cloud point prediction of fuels and fuel blends. <i>Fluid Phase Equilibria</i> , 2001 , 180, 247-255	2.5	34
402	Using COSMO-RS to design choline chloride pharmaceutical eutectic solvents. <i>Fluid Phase Equilibria</i> , 2019 , 497, 71-78	2.5	33
401	Role of the chemical structure of ionic liquids in their ecotoxicity and reactivity towards Fenton oxidation. <i>Separation and Purification Technology</i> , 2015 , 150, 252-256	8.3	33
400	Aqueous biphasic systems composed of ionic liquids and acetate-based salts: phase diagrams, densities and viscosities. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1674-1682	2.8	33
399	Comprehensive Study on the Impact of the Cation Alkyl Side Chain Length on the Solubility of Water in Ionic Liquids. <i>Journal of Molecular Liquids</i> , 2015 , 210, 264-271	6	33
398	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. <i>Langmuir</i> , 2016 , 32, 6130-9	4	33
397	Biodiesel via supercritical ethanolysis within a global analysis feedstocks-conversion-engine for a sustainable fuel alternative. <i>Progress in Energy and Combustion Science</i> , 2014 , 43, 1-35	33.6	33
396	Non-ideality of Solutions of NH ₃ , SO ₂ , and H ₂ S in Ionic Liquids and the Prediction of Their Solubilities Using the Flory-Huggins Model. <i>Energy & Fuels</i> , 2010 , 24, 6662-6666	4.1	33
395	Surface Tension of Decane Binary and Ternary Mixtures with Eicosane, Docosane, and Tetracosane. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1043-1046	2.8	33
394	Phase Equilibria Calculations of Polyethylene Solutions from SAFT-Type Equations of State. <i>Macromolecules</i> , 2006 , 39, 4240-4246	5.5	33

- 393 Carbon dioxide, ethylene and water vapor sorption in poly(lactic acid). *Fluid Phase Equilibria*, **2006**, 250, 116-124 2.5 33
- 392 Solid deposition as a function of temperature in the nC10 + (nC24/nC25/nC26) system. *Fluid Phase Equilibria*, **2004**, 224, 237-244 2.5 33
- 391 Evaluation of the Conductor-like Screening Model for Real Solvents for the Prediction of the Water Activity Coefficient at Infinite Dilution in Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2014**, 53, 12466-12475 3.9 32
- 390 Evidence of nanostructuration from the heat capacities of the 1,3-dialkylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid series. *Journal of Chemical Physics*, **2013**, 139, 104502 3.9 32
- 389 Measurement and prediction of speeds of sound of fatty acid ethyl esters and ethylic biodiesels. *Fuel*, **2013**, 108, 840-845 7.1 32
- 388 Structural insights into the effect of cholinium-based ionic liquids on the critical micellization temperature of aqueous triblock copolymers. *Physical Chemistry Chemical Physics*, **2016**, 18, 8342-51 3.6 31
- 387 Lipidic Protic Ionic Liquid Crystals. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 672-682 8.3 31
- 386 Partition Coefficients of Alkaloids in Biphasic Ionic-Liquid-Aqueous Systems and their Dependence on the Hofmeister Series. *Separation Science and Technology*, **2012**, 47, 284-291 2.5 31
- 385 Toward an understanding of the aqueous solubility of amino acids in the presence of salts: a molecular dynamics simulation study. *Journal of Physical Chemistry B*, **2010**, 114, 16450-9 3.4 31
- 384 Characterization of Libyan Waxy Crude Oils. *Energy & Fuels*, **2010**, 24, 3101-3107 4.1 31
- 383 Liquid-Liquid Equilibrium for Ternary Systems Containing Ethyl Esters, Anhydrous Ethanol and Water at 298.15, 313.15, and 333.15 K. *Industrial & Engineering Chemistry Research*, **2010**, 49, 12613-12619 3.9 31
- 382 Modeling Phase Equilibria Relevant to Biodiesel Production: A Comparison of gE Models, Cubic EoS, EoS-gE and Association EoS. *Industrial & Engineering Chemistry Research*, **2011**, 50, 2348-2358 3.9 31
- 381 Prediction of near and supercritical fatty acid ester + alcohol systems with the CPA EoS. *Journal of Supercritical Fluids*, **2010**, 52, 241-248 4.2 31
- 380 High pressure solid-liquid equilibria of fatty acids. *Fluid Phase Equilibria*, **2007**, 253, 118-123 2.5 31
- 379 Improving lipase production using a perfluorocarbon as oxygen carrier. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 1368-1374 3.5 31
- 378 Water solubility in linear fluoroalkanes used in blood substitute formulations. *Journal of Physical Chemistry B*, **2006**, 110, 22923-9 3.4 31
- 377 Generalized relation between surface tension and viscosity: a study on pure and mixed n-alkanes. *Fluid Phase Equilibria*, **2004**, 222-223, 161-168 2.5 31
- 376 Non-ionic hydrophobic eutectics – versatile solvents for tailored metal separation and valorisation. *Green Chemistry*, **2020**, 22, 2810-2820 10 30

375	Recovery of carotenoids from brown seaweeds using aqueous solutions of surface-active ionic liquids and anionic surfactants. <i>Separation and Purification Technology</i> , 2018 , 196, 300-308	8.3	30
374	Volatility study of [C1C1im][NTf2] and [C2C3im][NTf2] ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 317-321	2.9	30
373	Single-step extraction of carotenoids from brown macroalgae using non-ionic surfactants. <i>Separation and Purification Technology</i> , 2017 , 172, 268-276	8.3	30
372	New measurements and modeling of high pressure thermodynamic properties of glycols. <i>Fluid Phase Equilibria</i> , 2017 , 436, 113-123	2.5	29
371	Ionic liquid-based aqueous biphasic systems as a versatile tool for the recovery of antioxidant compounds. <i>Biotechnology Progress</i> , 2015 , 31, 70-7	2.8	29
370	High pressure solubility of CH ₄ , N ₂ O and N ₂ in 1-butyl-3-methylimidazolium dicyanamide: Solubilities, selectivities and soft-SAFT modeling. <i>Journal of Supercritical Fluids</i> , 2016 , 110, 56-64	4.2	29
369	Recovery of capsaicin from <i>Capsicum frutescens</i> by applying aqueous two-phase systems based on acetonitrile and cholinium-based ionic liquids. <i>Chemical Engineering Research and Design</i> , 2016 , 112, 103-112	5.5	29
368	Ecotoxicological evaluation of magnetic ionic liquids. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 143, 315-321	7	28
367	Ionic liquids as a novel class of electrolytes in polymeric aqueous biphasic systems. <i>Process Biochemistry</i> , 2015 , 50, 661-668	4.8	28
366	Recovery of an antidepressant from pharmaceutical wastes using ionic liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , 2016 , 18, 3527-3536	10	28
365	The impact of ionic liquid fluorinated moieties on their thermophysical properties and aqueous phase behaviour. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21340-8	3.6	28
364	Trends and demands in the solid-liquid equilibrium of lipidic mixtures. <i>RSC Advances</i> , 2014 , 4, 31840-31850	5.7	28
363	Composition and structural effects on the adsorption of ionic liquids onto activated carbon. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 1752-9	4.3	28
362	Understanding the Formation of Deep Eutectic Solvents: Betaine as a Universal Hydrogen Bond Acceptor. <i>ChemSusChem</i> , 2020 , 13, 4916-4921	8.3	28
361	Solubility of greenhouse and acid gases on the [C4mim][MeSO ₄] ionic liquid for gas separation and CO ₂ conversion. <i>Catalysis Today</i> , 2015 , 255, 87-96	5.3	27
360	Evaluation of the effect of ionic liquids as adjuvants in polymer-based aqueous biphasic systems using biomolecules as molecular probes. <i>Separation and Purification Technology</i> , 2018 , 196, 244-253	8.3	27
359	Single-Step Purification of Ovalbumin from Egg White Using Aqueous Biphasic Systems. <i>Process Biochemistry</i> , 2016 , 51, 781-791	4.8	27
358	Vapor-Liquid Equilibrium, Densities, and Interfacial Tensions of the System Hexane + 2,5-Dimethylfuran. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2681-2688	2.8	27

357	Novel data and a group contribution method for the prediction of the speed of sound and isentropic compressibility of pure fatty acids methyl and ethyl esters. <i>Fuel</i> , 2013 , 105, 466-470	7.1	27
356	Modeling of Biodiesel Multicomponent Systems with the Cubic-Plus-Association (CPA) Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 1419-1427	3.9	27
355	Gas-phase dissociation of ionic liquid aggregates studied by electrospray ionisation mass spectrometry and energy-variable collision induced dissociation. <i>Journal of Mass Spectrometry</i> , 2009 , 44, 144-50	2.2	27
354	Prediction of Ionic Liquids Properties through Molecular Dynamics Simulations. <i>Current Physical Chemistry</i> , 2014 , 4, 151-172	0.5	27
353	Understanding the Effect of Ionic Liquids as Adjuvants in the Partition of Biomolecules in Aqueous Two-Phase Systems Formed by Polymers and Weak Salting-Out Agents. <i>Biochemical Engineering Journal</i> , 2019 , 141, 239-246	4.2	27
352	Extraction of phenolic compounds from rosemary using choline chloride based Deep Eutectic Solvents. <i>Separation and Purification Technology</i> , 2021 , 258, 117975	8.3	27
351	Thermal Energy Storage and Mechanical Performance of Crude Glycerol Polyurethane Composite Foams Containing Phase Change Materials and Expandable Graphite. <i>Materials</i> , 2018 , 11,	3.5	27
350	Ionic Liquid-Mediated Recovery of Carotenoids from the <i>Bactris gasipaes</i> Fruit Waste and Their Application in Food-Packaging Chitosan Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4085-4095	8.3	26
349	Viscosities of Liquid Fluorocompounds. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 538-542	2.8	26
348	A new Corresponding States model for the estimation of thermophysical properties of long chain n-alkanes. <i>Fluid Phase Equilibria</i> , 2003 , 212, 303-314	2.5	26
347	Low temperature behaviour of refined products from DSC measurements and their thermodynamical modelling. <i>Thermochimica Acta</i> , 2001 , 372, 93-101	2.9	26
346	Computational and experimental study of the behavior of cyano-based ionic liquids in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1567-78	3.4	25
345	Crystallisation of a multiparaffinic wax in normal tetradecane under high pressure. <i>Fuel</i> , 2005 , 84, 453-459	4.1	25
344	Selection and Optimization of Culture Medium for Exopolysaccharide Production by <i>Coriolus (Trametes) Versicolor</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2005 , 21, 1499-1507	4.4	25
343	Evaluating the toxicity of biomass derived platform chemicals. <i>Green Chemistry</i> , 2016 , 18, 4733-4742	10	25
342	Development of predictive QSAR models for toxicity of ionic liquids and their true external and experimental validation tests. <i>Toxicology Research</i> , 2016 , 5, 1388-1399	2.6	24
341	Measurement and Prediction of Biodiesel Volatility. <i>Energy & Fuels</i> , 2012 , 26, 3048-3053	4.1	24
340	Solubility of Hexafluorobenzene in Aqueous Salt Solutions from (280 to 340) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 237-242	2.8	24

339	Toluene/n-Heptane Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids: Experimental and CPA EoS Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14242-14253	3.9	24
338	The antagonist and synergist potential of cholinium-based deep eutectic solvents. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 165, 597-602	7	24
337	Enhanced separation performance of aqueous biphasic systems formed by carbohydrates and tetraalkylphosphonium- or tetraalkylammonium-based ionic liquids. <i>Green Chemistry</i> , 2018 , 20, 2978-2983	10	24
336	Enhanced extraction and biological activity of 7-hydroxymatairesinol obtained from Norway spruce knots using aqueous solutions of ionic liquids. <i>Green Chemistry</i> , 2017 , 19, 2626-2635	10	23
335	Protic Ionic Liquids as Cell-Disrupting Agents for the Recovery of Intracellular Carotenoids from Yeast <i>Rhodotorula glutinis</i> CCT-2186. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16765-16776	8.3	23
334	Experimental Densities and Speeds of Sound of Substituted Phenols and Their Modeling with the Prigogine-Flory-Patterson Model. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2925-2931	2.8	23
333	Assessment and Improvement of n-Paraffin Distribution Obtained by HTGC To Predict Accurately Crude Oil Cold Properties. <i>Energy & Fuels</i> , 2011 , 25, 1153-1160	4.1	23
332	Solid-liquid equilibrium of n-alkanes using the chain delta lattice parameter model. <i>Fluid Phase Equilibria</i> , 1996 , 117, 138-145	2.5	23
331	Using COSMO-RS in the Design of Deep Eutectic Solvents for the Extraction of Antioxidants from Rosemary. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12132-12141	8.3	23
330	Solubility of carbon dioxide in encapsulated ionic liquids. <i>Separation and Purification Technology</i> , 2018 , 196, 41-46	8.3	23
329	Switchable (pH-Driven) Aqueous Biphasic Systems formed by Ionic Liquids as Integrated Production-Separation Platforms. <i>Green Chemistry</i> , 2017 , 19, 2768-2773	10	22
328	Unveiling the mechanism of hydrotropy: evidence for water-mediated aggregation of hydrotropes around the solute. <i>Chemical Communications</i> , 2020 , 56, 7143-7146	5.8	22
327	New Procedure for Enhancing the Transferability of Statistical Associating Fluid Theory (SAFT) Molecular Parameters: The Role of Derivative Properties. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10011-10024	3.9	22
326	Surface Tensions of Ionic Liquids: Non-Regular Trend Along the Number of Cyano Groups. <i>Fluid Phase Equilibria</i> , 2016 , 409, 458-465	2.5	22
325	Characterization of systems of thiophene and benzene with ionic liquids. <i>Journal of Molecular Liquids</i> , 2014 , 192, 26-31	6	22
324	Impact of the cation symmetry on the mutual solubilities between water and imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014 , 375, 161-167	2.5	22
323	High Pressure Density and Speed of Sound in Two Biodiesel Fuels. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 3392-3398	2.8	22
322	Solubility of oxygen in substituted perfluorocarbons. <i>Fluid Phase Equilibria</i> , 2005 , 238, 7-12	2.5	22

321	General Form of the Cross-Energy Parameter of Equations of State. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 3076-3082	3.9	22
320	An ionic liquid route to prepare copper sulphide nanocrystals aiming at photocatalytic applications. <i>RSC Advances</i> , 2016 , 6, 34521-34528	3.7	22
319	The Effect of vs. Isomerization on the Thermophysical Properties of Aromatic and Non-aromatic Ionic Liquids. <i>Fluid Phase Equilibria</i> , 2016 , 423, 190-202	2.5	22
318	Sustainable Liquid Luminescent Solar Concentrators. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800134	5.9	22
317	In situ purification of periplasmatic L-asparaginase by aqueous two phase systems with ionic liquids (ILs) as adjuvants. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1871-1880	3.5	21
316	Recovery of ibuprofen from pharmaceutical wastes using ionic liquids. <i>Green Chemistry</i> , 2016 , 18, 3749-3757	3.5	21
315	Aqueous Biphasic Systems Composed of Cholinium Chloride and Polymers as Effective Platforms for the Purification of Recombinant Green Fluorescent Protein. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9383-9393	8.3	21
314	Thermodynamic characterization of deep eutectic solvents at high pressures. <i>Fluid Phase Equilibria</i> , 2019 , 500, 112249	2.5	21
313	Removal of thiols from model jet-fuel streams assisted by ionic liquid membrane extraction. <i>Chemical Engineering Journal</i> , 2014 , 256, 144-154	14.7	21
312	Effect of polyvalent ions in the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 297-308	3.4	21
311	Designing the thermal behaviour of aqueous biphasic systems composed of ammonium-based zwitterions. <i>Green Chemistry</i> , 2017 , 19, 4012-4016	10	21
310	Evaluation of Methods for the Extraction and Characterization of Waxes from Crude Oils. <i>Energy & Fuels</i> , 2010 , 24, 1837-1843	4.1	21
309	Aging mechanisms of oil-in-water emulsions based on a bioemulsifier produced by <i>Yarrowia lipolytica</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 324, 149-154	5.1	21
308	Solid-liquid equilibria of binary mixtures of fluorinated ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25741-50	3.6	21
307	Fractionation of phenolic compounds from lignin depolymerisation using polymeric aqueous biphasic systems with ionic surfactants as electrolytes. <i>Green Chemistry</i> , 2016 , 18, 5569-5579	10	20
306	High pressure density and solubility for the CO ₂ +1-ethyl-3-methylimidazolium ethylsulfate system. <i>Journal of Supercritical Fluids</i> , 2014 , 88, 46-55	4.2	20
305	"Washing-out" ionic liquids from polyethylene glycol to form aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2271-4	3.6	20
304	Speed of Sound, Density, and Derivative Properties of Methyl Oleate and Methyl Linoleate under High Pressure. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2345-2354	2.8	20

303	Solubility of non-aromatic hexafluorophosphate-based salts and ionic liquids in water determined by electrical conductivity. <i>Fluid Phase Equilibria</i> , 2013 , 358, 50-55	2.5	20
302	Using Ionic Liquids To Tune the Performance of Aqueous Biphasic Systems Based on Pluronic L-35 for the Purification of Naringin and Rutin. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6409-6419	8.3	20
301	Application of Wadaï Group Contribution Method to the Prediction of the Speed of Sound of Biodiesel. <i>Energy & Fuels</i> , 2013 , 27, 1365-1370	4.1	20
300	Selective adsorption of volatile organic compounds in micropore aluminum methylphosphonate-alpha: a combined molecular simulation-experimental approach. <i>Langmuir</i> , 2007 , 23, 7299-305	4	20
299	Modeling high-pressure wax formation in petroleum fluids. <i>AIChE Journal</i> , 2005 , 51, 2089-2097	3.6	20
298	pH Effect on the Formation of Deep-Eutectic-Solvent-Based Aqueous Two-Phase Systems. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16917-16924	3.9	20
297	Thermophysical properties of two ammonium-based protic ionic liquids. <i>Journal of Solution Chemistry</i> , 2015 , 44, 703-717	1.8	19
296	Kraft Lignin Solubility and Its Chemical Modification in Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18577-18589	8.3	19
295	Binary mixtures of fatty acid ethyl esters: Solid-liquid equilibrium. <i>Fluid Phase Equilibria</i> , 2016 , 427, 1-8	2.5	19
294	Modeling the vapor-liquid equilibria and water activity coefficients of alternative refrigerant-absorbent ionic liquid-water pairs for absorption systems. <i>Fluid Phase Equilibria</i> , 2016 , 426, 100-109	2.5	19
293	Rationalizing the Phase Behavior of Triblock Copolymers through Experiments and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21224-21236	3.8	19
292	Ionic liquid recovery alternatives in ionic liquid-based three-phase partitioning (ILTPP). <i>AIChE Journal</i> , 2014 , 60, 3577-3586	3.6	19
291	Characterization by electrospray ionization and tandem mass spectrometry of rhamnolipids produced by two <i>Pseudomonas aeruginosa</i> strains isolated from Brazilian crude oil. <i>European Journal of Mass Spectrometry</i> , 2012 , 18, 399-406	1.1	19
290	Prediction of environmental parameters of polycyclic aromatic hydrocarbons with COSMO-RS. <i>Chemosphere</i> , 2010 , 79, 821-9	8.4	19
289	Solubility of Adamantane in Phosphonium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 662-665	2.8	19
288	A new method for measuring solid-liquid equilibrium phase diagrams using calorimetry. <i>Fluid Phase Equilibria</i> , 1998 , 148, 147-160	2.5	19
287	Modeling the Liquid-Liquid Equilibria of Water + Fluorocarbons with the Cubic-Plus-Association Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 1415-1420	3.9	19
286	Preparation and characterization of organosilicon thin films for selective adhesion of <i>Yarrowia lipolytica</i> yeast cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 82, 360-366	3.5	19

285	Beneficial effects of enhanced aeration using perfluorodecalin in <i>Yarrowia lipolytica</i> cultures for lipase production. <i>World Journal of Microbiology and Biotechnology</i> , 2007 , 23, 339-344	4.4	19
284	Understanding the interactions of imidazolium-based ionic liquids with cell membrane models. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29764-29777	3.6	19
283	Effect of salts on the solubility of ionic liquids in water: experimental and electrolyte Perturbed-Chain Statistical Associating Fluid Theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 32044-32052	2.6	18
282	Glycerol Ethers as Hydrotropes and Their Use to Enhance the Solubility of Phenolic Acids in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5742-5749	8.3	18
281	Mechanism of ionic-liquid-based acidic aqueous biphasic system formation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9838-9846	3.6	18
280	Separation of phenolic acids by centrifugal partition chromatography. <i>Green Chemistry</i> , 2018 , 20, 1906-1916	10.6	18
279	Simultaneous extraction and concentration of water pollution tracers using ionic-liquid-based systems. <i>Journal of Chromatography A</i> , 2018 , 1559, 69-77	4.5	18
278	Interactions of pyridinium, pyrrolidinium or piperidinium based ionic liquids with water: Measurements and COSMO-RS modelling. <i>Fluid Phase Equilibria</i> , 2016 , 414, 93-100	2.5	18
277	Understanding chemical reactions of CO ₂ and its isoelectronic molecules with 1-butyl-3-methylimidazolium acetate by changing the nature of the cation: the case of CS ₂ in 1-butyl-1-methylpyrrolidinium acetate studied by NMR spectroscopy and density functional theory calculations. <i>Journal of Chemical Physics</i> , 2014 , 140, 244307	3.9	18
276	Addition of Tocopherol on poly(lactic acid): Thermal, mechanical, and sorption properties. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 2468-2475	2.9	18
275	Thermodynamic Modeling of the Aqueous Solubility of PAHs. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 5530-5536	3.9	18
274	Surface tensions of esters from a combination of the gradient theory with the CPA EoS. <i>Fluid Phase Equilibria</i> , 2011 , 303, 56-61	2.5	18
273	Synergistic Aqueous Biphasic Systems: A New Paradigm for the One-Pot Hydrometallurgical Recovery of Critical Metals. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1769-1777	8.3	18
272	Understanding the role of the hydrogen bond donor of the deep eutectic solvents in the formation of the aqueous biphasic systems. <i>Fluid Phase Equilibria</i> , 2020 , 503, 112319	2.5	18
271	Improved coarse-grain model to unravel the phase behavior of 1-alkyl-3-methylimidazolium-based ionic liquids through molecular dynamics simulations. <i>Journal of Colloid and Interface Science</i> , 2020 , 574, 324-336	9.3	18
270	Alternative probe for the determination of the hydrogen-bond acidity of ionic liquids and their aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11011-11016	3.6	17
269	Toward an Understanding of the Mechanisms behind the Formation of Liquid-liquid Systems formed by Two Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3015-3019	6.4	17
268	A methodology to parameterize SAFT-type equations of state for solid precursors of deep eutectic solvents: the example of cholinium chloride. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15046-15061	3.6	17

267	Synthesis and characterization of chiral ionic liquids based on quinine, l-proline and l-valine for enantiomeric recognition. <i>Journal of Molecular Liquids</i> , 2019 , 283, 410-416	6	17
266	R-phycoerythrin extraction and purification from fresh <i>Gracilaria</i> sp. using thermo-responsive systems. <i>Green Chemistry</i> , 2019 , 21, 3816-3826	10	17
265	Separation of immunoglobulin G using aqueous biphasic systems composed of cholinium-based ionic liquids and poly(propylene glycol). <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1931-1939	3.5	17
264	Complexation and molecular modeling studies of europium(III)-gallic acid-amino acid complexes. <i>Journal of Inorganic Biochemistry</i> , 2016 , 157, 25-33	4.2	17
263	Lipase production and purification by self-buffering ionic liquid-based aqueous biphasic systems. <i>Process Biochemistry</i> , 2017 , 63, 221-228	4.8	17
262	Improved Prediction of Water Properties and Phase Equilibria with a Modified Cubic Plus Association Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 15163-15176	3.9	17
261	Special Issue on Deep Eutectic Solvents: A foreword. <i>Fluid Phase Equilibria</i> , 2017 , 448, 1	2.5	17
260	High pressure phase equilibria in methane+waxy systems. 2. Methane+waxy ternary mixture. <i>Fluid Phase Equilibria</i> , 2010 , 297, 149-153	2.5	17
259	Corresponding-States Modeling of the Speed of Sound of Long-Chain Hydrocarbons. <i>International Journal of Thermophysics</i> , 2006 , 27, 1095-1109	2.1	17
258	Enzymatic method for determining oxygen solubility in perfluorocarbon emulsions. <i>Fluid Phase Equilibria</i> , 2005 , 231, 109-113	2.5	17
257	Re-evaluating the CPA EoS for improving critical points and derivative properties description. <i>Fluid Phase Equilibria</i> , 2017 , 436, 85-97	2.5	16
256	Nature of the C2-methylation effect on the properties of imidazolium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5326-5332	3.6	16
255	New Experimental Data and Modeling of Glymes: Toward the Development of a Predictive Model for Polyethers. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7830-7844	3.9	16
254	Sustainable strategies based on glycineβetaine analogue ionic liquids for the recovery of monoclonal antibodies from cell culture supernatants. <i>Green Chemistry</i> , 2019 , 21, 5671-5682	10	16
253	Solvent and temperature effects on the solubility of syringic, vanillic or veratric acids: Experimental, modeling and solid phase studies. <i>Journal of Molecular Liquids</i> , 2019 , 289, 111089	6	16
252	Effect of the Methylation and N-H Acidic Group on the Physicochemical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8781-92	3.4	16
251	Extraction of recombinant proteins from <i>Escherichia coli</i> by cell disruption with aqueous solutions of surface-active compounds. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1864-1870	3.5	16
250	Pioneering Use of Ionic Liquid-Based Aqueous Biphasic Systems as Membrane-Free Batteries. <i>Advanced Science</i> , 2018 , 5, 1800576	13.6	16

249	Evidence for the interactions occurring between ionic liquids and tetraethylene glycol in binary mixtures and aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4615-29	3.4	16
248	Isobaric vapor-liquid equilibrium and isothermal surface tensions of 2,2'-oxybis[propane] + 2,5-Dimethylfuran. <i>Fluid Phase Equilibria</i> , 2013 , 345, 60-67	2.5	16
247	Deposition of <i>Yarrowia lipolytica</i> on plasma prepared teflonlike thin films. <i>Surface Engineering</i> , 2008 , 24, 23-27	2.6	16
246	Modeling the Phase Equilibria of Poly(ethylene glycol) Binary Mixtures with soft-SAFT EoS. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 4678-4685	3.9	16
245	Paraffin crystallization in synthetic mixtures: Predictive local composition models revisited. <i>Fluid Phase Equilibria</i> , 2005 , 233, 28-33	2.5	16
244	Multistep purification of cytochrome c PEGylated forms using polymer-based aqueous biphasic systems. <i>Green Chemistry</i> , 2017 , 19, 5800-5808	10	15
243	Solid-liquid equilibrium and heat capacity trend in the alkyimidazolium PF6 series. <i>Journal of Molecular Liquids</i> , 2017 , 248, 678-687	6	15
242	Acetonitrile as adjuvant to tune polyethylene glycol + K3PO4 aqueous two-phase systems and its effect on phenolic compounds partition. <i>Separation and Purification Technology</i> , 2019 , 223, 41-48	8.3	15
241	Environmentally friendly luminescent solar concentrators based on an optically efficient and stable green fluorescent protein. <i>Green Chemistry</i> , 2020 , 22, 4943-4951	10	15
240	Use of Ionic Liquids as Cosurfactants in Mixed Aqueous Micellar Two-Phase Systems to Improve the Simultaneous Separation of Immunoglobulin G and Human Serum Albumin from Expired Human Plasma. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15102-15113	8.3	15
239	Primary and secondary aqueous two-phase systems composed of thermo switchable polymers and bio-derived ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2017 , 115, 191-201	2.9	15
238	The origin of the LCST on the liquid-liquid equilibrium of thiophene with ionic liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5985-92	3.4	15
237	High-Pressure Solubility Data of Methane in Aniline and Aqueous Aniline Systems. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1100-1102	2.8	15
236	A THERMODYNAMIC MODEL TO PREDICT WAX FORMATION IN PETROLEUM FLUIDS. <i>Brazilian Journal of Chemical Engineering</i> , 2001 , 18, 411-422	1.7	15
235	A critical assessment of the mechanisms governing the formation of aqueous biphasic systems composed of protic ionic liquids and polyethylene glycol. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 30009-30019	3.6	15
234	Non-Ideality in Thymol + Menthol Type V Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2203-2211	8.3	15
233	Temperature dependency of aqueous biphasic systems: an alternative approach for exploring the differences between Coulombic-dominated salts and ionic liquids. <i>Chemical Communications</i> , 2017 , 53, 7298-7301	5.8	14
232	Synthesis and Characterization of Surface-Active Ionic Liquids Used in the Disruption of <i>Escherichia Coli</i> Cells. <i>ChemPhysChem</i> , 2019 , 20, 727-735	3.2	14

231	Mechanisms of phase separation in temperature-responsive acidic aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7462-7473	3.6	14
230	Improving the cold flow behavior of methyl biodiesel by blending it with ethyl esters. <i>Fuel</i> , 2018 , 226, 87-92	7.1	14
229	Odd-even effect on the formation of aqueous biphasic systems formed by 1-alkyl-3-methylimidazolium chloride ionic liquids and salts. <i>Journal of Chemical Physics</i> , 2018 , 148,	3.9	14
228	Hydrogen bond basicity of ionic liquids and molar entropy of hydration of salts as major descriptors in the formation of aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14234-14241	3.6	14
227	What a difference a methyl group makes - probing choline-urea molecular interactions through urea structure modification. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18278-18289	3.6	14
226	Phase equilibria description of biodiesels with water and alcohols for the optimal design of the production and purification process. <i>Fuel</i> , 2014 , 129, 116-128	7.1	14
225	On the chemical reactions of carbon dioxide isoelectronic molecules CS ₂ and OCS with 1-butyl-3-methylimidazolium acetate. <i>Chemical Communications</i> , 2013 , 49, 11083-5	5.8	14
224	Evidence of an odd-even effect on the thermodynamic parameters of odd fluorotelomer alcohols. <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 171-178	2.9	14
223	Liquid-liquid equilibria for ethyl esters+ethanol+water systems: Experimental measurements and CPA EoS modeling. <i>Fuel</i> , 2012 , 96, 327-334	7.1	14
222	Aqueous solubility, effects of salts on aqueous solubility, and partitioning behavior of hexafluorobenzene: experimental results and COSMO-RS predictions. <i>Chemosphere</i> , 2011 , 84, 415-22	8.4	14
221	N'-Benzoyl-N,N-diethyl-thio-urea: a monoclinic polymorph. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o870		14
220	Predictions of three-phase regions in CO ₂ -oil mixtures. <i>Journal of Petroleum Science and Engineering</i> , 1995 , 12, 201-208	4.4	14
219	Aqueous Biphasic Systems Using Chiral Ionic Liquids for the Enantioseparation of Mandelic Acid Enantiomers. <i>Solvent Extraction and Ion Exchange</i> , 2018 , 36, 617-631	2.5	14
218	A Triple Salting-Out Effect is Required for the Formation of Ionic-Liquid-Based Aqueous Multiphase Systems. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15058-15062	16.4	13
217	Economic evaluation of the primary recovery of tetracycline with traditional and novel aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2018 , 203, 178-184	8.3	13
216	Densities, Viscosities, and Refractive Indexes of Good Buffer Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2260-2268	2.8	13
215	Glycine-betaine ionic liquid analogues as novel phase-forming components of aqueous biphasic systems. <i>Biotechnology Progress</i> , 2018 , 34, 1205-1212	2.8	13
214	Vapor Liquid Equilibria of Binary Mixtures of 1-Butyl-3-methylimidazolium Triflate (CmimTfO) and Molecular Solvents: n-Alkyl Alcohols and Water. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6017-6032	3.4	13

213	CO ₂ influence on asphaltene precipitation. <i>Journal of Supercritical Fluids</i> , 2019 , 143, 24-31	4.2	13
212	Gaseous Phase Heat Capacity of Benzoic Acid. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2799-2808	2.8	13
211	Correlation of solvent activities in polymer solutions: a comparison of models. <i>Fluid Phase Equilibria</i> , 2004 , 219, 129-138	2.5	13
210	Influence of C/N ratio on autotrophic biomass development in a sequencing batch reactor. <i>Biochemical Engineering Journal</i> , 2004 , 21, 131-139	4.2	13
209	Selection and characterization of non-ideal ionic liquids mixtures to be used in CO ₂ capture. <i>Fluid Phase Equilibria</i> , 2020 , 518, 112621	2.5	13
208	Separation of benzene from methylcycloalkanes by extractive distillation with cyano-based ionic liquids: Experimental and CPA EoS modelling. <i>Separation and Purification Technology</i> , 2020 , 234, 116128	8.3	13
207	Evaluating Cubic Plus Association Equation of State Predictive Capacities: A Study on the Transferability of the Hydroxyl Group Associative Parameters. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7086-7099	3.9	12
206	Revisiting the methodology for asphaltenes precipitation. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 178, 778-786	4.4	12
205	Recovery of Nonsteroidal Anti-Inflammatory Drugs from Wastes Using Ionic-Liquid-Based Three-Phase Partitioning Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4574-4585	8.3	12
204	High-pressure solubility of CO ₂ in glymes. <i>Fuel</i> , 2018 , 219, 120-125	7.1	12
203	Another look at the water solubility in biodiesels: Further experimental measurements and prediction with the CPA EoS. <i>Fuel</i> , 2012 , 97, 843-847	7.1	12
202	Liquid-Liquid equilibrium of (1H,1H,7H-perfluoroheptan-1-ol+perfluoroalkane) binary mixtures. <i>Fluid Phase Equilibria</i> , 2007 , 251, 33-40	2.5	12
201	Good's Buffer Ionic Liquids as Relevant Phase-Forming Components of Self-Buffered Aqueous Biphasic Systems. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2287-2299	3.5	11
200	Liquefying Compounds by Forming Deep Eutectic Solvents: A Case Study for Organic Acids and Alcohols. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4174-4184	3.4	11
199	Solubility and solvation of monosaccharides in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19722-30	3.6	11
198	Why are some cyano-based ionic liquids better glucose solvents than water?. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18958-70	3.6	11
197	Recovery of Syringic Acid from Industrial Food Waste with Aqueous Solutions of Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14143-14152	8.3	11
196	Analysis of the isomerism effect on the mutual solubilities of bis(trifluoromethylsulfonyl)imide-based ionic liquids with water. <i>Fluid Phase Equilibria</i> , 2014 , 381, 28-35	2.5	11

195	Measurement and Prediction of Densities of Vegetable Oils at Pressures up to 45 MPa. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 3046-3053	2.8	11
194	Attachment/detachment of <i>Saccharomyces cerevisiae</i> on plasma deposited organosilicon thin films. <i>European Physical Journal D</i> , 2006 , 56, B1256-B1262		11
193	Uncovering the potentialities of protic ionic liquids based on alkanolammonium and carboxylate ions and their aqueous solutions as non-derivatizing solvents of Kraft lignin. <i>Industrial Crops and Products</i> , 2020 , 143, 111866	5.9	11
192	Critical aspects of membrane-free aqueous battery based on two immiscible neutral electrolytes. <i>Energy Storage Materials</i> , 2020 , 26, 400-407	19.4	11
191	Selective recovery and purification of carotenoids and fatty acids from <i>Rhodotorula glutinis</i> using mixtures of biosolvents. <i>Separation and Purification Technology</i> , 2021 , 266, 118548	8.3	11
190	Coordination abilities of Good \bar{B} buffer ionic liquids toward europium(III) ion in aqueous solution. <i>Journal of Chemical Thermodynamics</i> , 2016 , 94, 152-159	2.9	11
189	Wood delignification with aqueous solutions of deep eutectic solvents. <i>Industrial Crops and Products</i> , 2021 , 160, 113128	5.9	11
188	Synthesis and characterization of analogues of glycine-betaine ionic liquids and their use in the formation of aqueous biphasic systems. <i>Fluid Phase Equilibria</i> , 2019 , 494, 239-245	2.5	10
187	Integrated Extraction-Preservation Strategies for RNA Using Biobased Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9439-9448	8.3	10
186	Evaluation of the GROMOS 56ACARBO Force Field for the Calculation of Structural, Volumetric, and Dynamic Properties of Aqueous Glucose Systems. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 15310-15314	3.4	10
185	Integrative platform for the selective recovery of intracellular carotenoids and lipids from <i>Rhodotorula glutinis</i> CCT-2186 yeast using mixtures of bio-based solvents. <i>Green Chemistry</i> , 2020 , 22, 8478-8494	10	10
184	Hydroethanolic extract of <i>Juglans regia</i> L. green husks: A source of bioactive phytochemicals. <i>Food and Chemical Toxicology</i> , 2020 , 137, 111189	4.7	10
183	The Role of Charge Transfer in the Formation of Type I Deep Eutectic Solvent-Analogous Ionic Liquid Mixtures. <i>Molecules</i> , 2019 , 24,	4.8	10
182	Inclusion complexes of ionic liquids and cyclodextrins: are they formed in the gas phase?. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 852-60	3.5	10
181	Nitrogen and water adsorption in aluminum methylphosphonate alpha: a molecular simulation study. <i>Langmuir</i> , 2006 , 22, 3097-104	4	10
180	Extraction and Fractionation of Pigments from <i>Saccharina latissima</i> (Linnaeus, 2006) Using an Ionic Liquid + Oil + Water System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 6599-6612	8.3	10
179	DFT Study of the Reaction Mechanisms of Carbon Dioxide and its Isoelectronic Molecules CS ₂ and OCS Dissolved in Pyrrolidinium and Imidazolium Acetate Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5243-54	3.4	10
178	Hydrotropy and Cosolvency in Lignin Solubilization with Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	9

177	Can cholinium chloride form eutectic solvents with organic chloride-based salts?. <i>Fluid Phase Equilibria</i> , 2019 , 493, 120-126	2.5	9
176	Using a Volume Shift in Perturbed-Chain Statistical Associating Fluid Theory To Improve the Description of Speed of Sound and Other Derivative Properties. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11804-11814	3.9	9
175	High Pressure Phase Behavior of Carbon Dioxide in Carbon Disulfide and Carbon Tetrachloride. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2786-2792	2.8	9
174	Protein Cohabitation: Improving the Photochemical Stability of R-Phycocerythrin in the Solid State. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6249-6255	6.4	9
173	Prediction of solid solute solubility in supercritical CO ₂ with cosolvents using the CPA EoS. <i>Fluid Phase Equilibria</i> , 2019 , 482, 1-10	2.5	9
172	Recovery of pigments from <i>Ulva rigida</i> . <i>Separation and Purification Technology</i> , 2021 , 255, 117723	8.3	9
171	Simultaneous Separation of Antioxidants and Carbohydrates From Food Wastes Using Aqueous Biphasic Systems Formed by Cholinium-Derived Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019 , 7, 459	5	8
170	Integration of aqueous (micellar) two-phase systems on the proteins separation. <i>BMC Chemical Engineering</i> , 2019 , 1,	3.5	8
169	Thiols? extraction from jet-fuels assisted by ionic liquids in hollow fibre membrane contactors. <i>Journal of Membrane Science</i> , 2015 , 477, 65-73	9.6	8
168	Mechanisms ruling the partition of solutes in ionic-liquid-based aqueous biphasic systems - the multiple effects of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8411-8422	3.6	8
167	Measurement and Modeling of Isobaric Vapor-Liquid Equilibrium of Water + Glycols. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 2394-2401	2.8	8
166	Understanding the fundamentals of acid-induced ionic liquid-based aqueous biphasic system. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16477-16484	3.6	8
165	Heterologous expression and purification of active L-asparaginase I of <i>Saccharomyces cerevisiae</i> in <i>Escherichia coli</i> host. <i>Biotechnology Progress</i> , 2017 , 33, 416-424	2.8	8
164	High pressure phase equilibria in methane + waxy systems. 3. Methane + a synthetic distribution of paraffin ranging from n-C ₁₃ to n-C ₂₂ . <i>Fluid Phase Equilibria</i> , 2012 , 313, 32-37	2.5	8
163	A quartz crystal microbalance technique to study wax crystallization in the presence of gas. <i>Measurement Science and Technology</i> , 2008 , 19, 065704	2	8
162	Eutectic Mixtures Based on Polyalcohols as Sustainable Solvents: Screening and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15317-15326	8.3	8
161	Sequential recovery of C-phycoerythrin and chlorophylls from <i>Anabaena cylindrica</i> . <i>Separation and Purification Technology</i> , 2021 , 255, 117538	8.3	8
160	Using COSMO-RS to Predict Solvatochromic Parameters for Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10240-10249	8.3	8

159	Toward Modeling the Aromatic/Aliphatic Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids Using CPA EoS. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19681-19692	3.9	7
158	Understanding the cation specific effects on the aqueous solubility of amino acids: from mono to polyvalent cations. <i>RSC Advances</i> , 2015 , 5, 15024-15034	3.7	7
157	Solubility of caffeic acid in CO ₂ + ethanol: Experimental and predicted data using Cubic Plus Association Equation of State. <i>Journal of Supercritical Fluids</i> , 2018 , 138, 238-246	4.2	7
156	Alcohols as molecular probes in ionic liquids: evidence for nanostructuration. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19267-75	3.6	7
155	Modeling of the Mixture Critical Locus with a Modified Cubic Plus Association Equation of State: Water, Alkanols, Amines, and Alkanes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10649-10662	3.9	7
154	Predicting Physico-Chemical Properties of Alkylated Naphthalenes with COSMO-RS. <i>Polycyclic Aromatic Compounds</i> , 2013 , 33, 1-19	1.3	7
153	Measuring the amount of crystallinity in solutions using DSC. <i>Canadian Journal of Chemical Engineering</i> , 1997 , 75, 1075-1079	2.3	7
152	Solid-Liquid Equilibria under High Pressure of Nine Pure n-Alkylbenzenes. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 233-237	2.8	7
151	Solid-Liquid Equilibria under High Pressure of Eight Pure n-Alkylcyclohexanes. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1250-1254	2.8	7
150	How does cyclodextrin affect the aggregation of sodium perfluoroheptanoate in aqueous solution: a 19F NMR study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007 , 57, 157-162		7
149	Unravelling the interactions between biomedical thermoresponsive polymer and biocompatible ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112362	6	7
148	Selective Separation of Manganese, Cobalt, and Nickel in a Fully Aqueous System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12260-12269	8.3	7
147	Encapsulated Amino-Acid-Based Ionic Liquids for CO ₂ Capture. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 3158-3166	2.3	7
146	Separation of mandelic acid enantiomers using solid-liquid biphasic systems with chiral ionic liquids. <i>Separation and Purification Technology</i> , 2020 , 252, 117468	8.3	7
145	Investigation of Kraft Lignin Solubility in Protic Ionic Liquids and Their Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18193-18202	3.9	7
144	Sustainable Strategy Based on Induced Precipitation for the Purification of Phycobiliproteins. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3942-3954	8.3	7
143	Cholinium-based ionic liquids as bioinspired hydrotropes to tackle solubility challenges in drug formulation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 164, 86-92	5.7	7
142	Sustainable Extraction and Separation of Rhenium and Molybdenum from Model Copper Mining Effluents Using a Polymeric Aqueous Two-Phase System. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1778-1785	8.3	7

141	Economic analysis of the production and recovery of green fluorescent protein using ATPS-based bioprocesses. <i>Separation and Purification Technology</i> , 2021 , 254, 117595	8.3	7
140	Development of a robust soft-SAFT model for protic ionic liquids using new high-pressure density data. <i>Fluid Phase Equilibria</i> , 2021 , 539, 113036	2.5	7
139	Using aqueous solutions of ionic liquids as chlorophyll eluents in solid-phase extraction processes. <i>Chemical Engineering Journal</i> , 2022 , 428, 131073	14.7	7
138	Impact of water on the [C4C1im][Ac] ability for the CO ₂ /CH ₄ separation. <i>Journal of CO₂ Utilization</i> , 2019 , 31, 115-123	7.6	6
137	Neochloris oleoabundans biorefinery: Integration of cell disruption and purification steps using aqueous biphasic systems-based in surface-active ionic liquids. <i>Chemical Engineering Journal</i> , 2020 , 399, 125683	14.7	6
136	Solid-liquid phase equilibrium of trans-cinnamic acid, p-coumaric acid and ferulic acid in water and organic solvents: Experimental and modelling studies. <i>Fluid Phase Equilibria</i> , 2020 , 521, 112747	2.5	6
135	Fast and Efficient Method to Evaluate the Potential of Eutectic Solvents to Dissolve Lignocellulosic Components. <i>Sustainability</i> , 2020 , 12, 3358	3.6	6
134	Lipase Production and Purification from Fermentation Broth Using Ionic Liquids 2016 , 59-97		6
133	Organic-phase biological buffers for biochemical and biological research in organic media. <i>Journal of Molecular Liquids</i> , 2016 , 221, 197-205	6	6
132	Continuous separation of cytochrome-c PEGylated conjugates by fast centrifugal partition chromatography. <i>Green Chemistry</i> , 2019 , 21, 5501-5506	10	6
131	Surface crystallization of ionic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17792-17800	3.6	6
130	An atomic contribution model for the prediction of speed of sound. <i>Fluid Phase Equilibria</i> , 2013 , 358, 108-113	2.5	6
129	A simple method for preparation of a novel hydrophobic ionic liquid with a per-fluoro-tert-butoxide anion. <i>New Journal of Chemistry</i> , 2017 , 41, 47-50	3.6	6
128	Predictive Group Contribution Models for the Thermophysical Properties of Ionic Liquids. <i>ACS Symposium Series</i> , 2010 , 385-401	0.4	6
127	Liquid-liquid equilibrium of substituted perfluoro-n-octane+n-octane systems. <i>Fluid Phase Equilibria</i> , 2008 , 268, 85-89	2.5	6
126	How does beta-cyclodextrin affect oxygen solubility in aqueous solutions of sodium perfluoroheptanoate?. <i>Journal of Colloid and Interface Science</i> , 2006 , 303, 552-6	9.3	6
125	A modified extended UNIQUAC model for proteins. <i>Fluid Phase Equilibria</i> , 2004 , 222-223, 127-133	2.5	6
124	Modeling the Thermal Conductivity of Pure and Mixed Heavy n-Alkanes Suitable for the Design of Phase Change Materials. <i>International Journal of Thermophysics</i> , 2005 , 26, 1461-1475	2.1	6

123	Experimental solubility and density studies on aqueous solutions of quaternary ammonium halides, and thermodynamic modelling for melting enthalpy estimations. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112281	6	6
122	Integrated Leaching and Separation of Metals Using Mixtures of Organic Acids and Ionic Liquids. <i>Molecules</i> , 2020 , 25,	4.8	6
121	Unravelling the Interactions between Surface-Active Ionic Liquids and Triblock Copolymers for the Design of Thermal Responsive Systems. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7046-7058	3.4	6
120	Multiproduct Microalgae Biorefineries Mediated by Ionic Liquids. <i>Trends in Biotechnology</i> , 2021 , 39, 1131-1143	6	6
119	Protein-olive oil-in-water nanoemulsions as encapsulation materials for curcumin acting as anticancer agent towards MDA-MB-231 cells. <i>Scientific Reports</i> , 2021 , 11, 9099	4.9	6
118	The role of ionic vs. non-ionic excipients in APIs-based eutectic systems. <i>European Journal of Pharmaceutical Sciences</i> , 2021 , 156, 105583	5.1	6
117	Ionic liquids as entrainers for terpenes fractionation and other relevant separation problems. <i>Journal of Molecular Liquids</i> , 2021 , 323, 114647	6	6
116	Zwitterionic compounds are less ecotoxic than their analogous ionic liquids. <i>Green Chemistry</i> , 2021 , 23, 3683-3692	10	6
115	Ionic-Liquid-Based Acidic Aqueous Biphasic Systems for Simultaneous Leaching and Extraction of Metallic Ions. <i>Angewandte Chemie</i> , 2018 , 130, 1579-1582	3.6	6
114	Differences on the impact of water on the deep eutectic solvents betaine/urea and choline/urea. <i>Journal of Chemical Physics</i> , 2021 , 155, 034501	3.9	6
113	Ion speciation: a key for the understanding of the solution properties of ionic liquid mixtures. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21626-21632	3.6	5
112	Instantaneous Fibrillation of egg white proteome with ionic liquid and macromolecular crowding. <i>Communications Materials</i> , 2020 , 1,	6	5
111	Insights on the Extraction Performance of Alkanediols and Glycerol: Using L. Leaves as a Source of Bioactive Compounds. <i>Molecules</i> , 2020 , 25,	4.8	5
110	Potential of Aqueous Two-Phase Systems for the Separation of Levodopa from Similar Biomolecules. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1940-1947	3.5	5
109	Aqueous solubilities of five N-(diethylaminothiocarbonyl)benzimidazole derivatives at T = 298.15 K. <i>Chemosphere</i> , 2016 , 160, 45-53	8.4	5
108	Modeling of the binodal curve of ionic liquid/salt aqueous systems. <i>Fluid Phase Equilibria</i> , 2016 , 426, 10-165	6	5
107	Selecting Critical Properties of Terpenes and Terpenoids through Group-Contribution Methods and Equations of State. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9895-9905	3.9	5
106	From water-in-oil to oil-in-water emulsions to optimize the production of fatty acids using ionic liquids in micellar systems. <i>Biotechnology Progress</i> , 2015 , 31, 1473-80	2.8	5

105	Assessing the non-ideality of the CO ₂ -CS ₂ system at molecular level: a Raman scattering study. <i>Journal of Chemical Physics</i> , 2013 , 139, 124504	3.9	5
104	Analysis of the effects of hyperbaric gases on <i>S. cerevisiae</i> cell cycle through a morphological approach. <i>Process Biochemistry</i> , 2007 , 42, 1378-1383	4.8	5
103	Total mercury in sediments from mud volcanoes in Gulf of Cadiz. <i>Marine Pollution Bulletin</i> , 2007 , 54, 1530-44	3.4	5
102	Preparation and Characterization of Hybrid Organic/Inorganic Nanocomposites by In Situ Miniemulsion Polymerization. <i>Materials Science Forum</i> , 2006 , 514-516, 1201-1205	0.4	5
101	The Use of Differential Scanning Calorimetry in Studies of Wax Deposition: Measuring the Solid Formation and Binary Solid-Liquid Equilibrium Phase Diagrams. <i>Oil and Gas Science and Technology</i> , 1999 , 54, 641-648	1.9	5
100	CHAPTER 8:Ionic Liquids as Efficient Tools for the Purification of Biomolecules and Bioproducts from Natural Sources. <i>RSC Green Chemistry</i> , 2015 , 227-257	0.9	5
99	The Perspective of Cooperative Hydrotropy on the Solubility in Aqueous Solutions of Cyrene. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18649-18658	3.9	5
98	Using coarse-grained molecular dynamics to rationalize biomolecule solubilization mechanisms in ionic liquid-based colloidal systems. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 24771-24783	3.6	5
97	Solubility Enhancement of Hydrophobic Substances in Water/Cyrene Mixtures: A Computational Study. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18247-18253	3.9	5
96	Towards the differential diagnosis of prostate cancer by the pre-treatment of human urine using ionic liquids. <i>Scientific Reports</i> , 2020 , 10, 14931	4.9	5
95	An integrated process combining the reaction and purification of PEGylated proteins. <i>Green Chemistry</i> , 2019 , 21, 6407-6418	10	5
94	Binary Mixtures of Ionic Liquids in Aqueous Solution: Towards an Understanding of their Salting-In/Salting-Out Phenomena. <i>Journal of Solution Chemistry</i> , 2019 , 48, 983-991	1.8	5
93	Enhanced Extraction of Levodopa from <i>Mucuna pruriens</i> Seeds Using Aqueous Solutions of Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6682-6689	8.3	5
92	The impact of the counterion in the performance of ionic hydrotropes. <i>Chemical Communications</i> , 2021 , 57, 2951-2954	5.8	5
91	Using coarse-grained molecular dynamics to understand the effect of ionic liquids on the aggregation of Pluronic copolymer solutions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 5824-5833	3.6	5
90	Modeling of the Mixture Critical Locus with a Modified Cubic Plus Association (CPA) EoS: Aromatics, Ketones, Ethers, Diethyl Carbonate, and THF. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15857-15868	3.9	5
89	Evaluation of the solvent structural effect upon the vapor-liquid equilibrium of [C4C1im][Cl] ⁺ alcohols. <i>Fluid Phase Equilibria</i> , 2017 , 440, 36-44	2.5	4
88	High pressure density of tricyanomethanide-based ionic liquids: Experimental and PC-SAFT modelling. <i>Fluid Phase Equilibria</i> , 2020 , 520, 112652	2.5	4

87	Isobaric vapor-liquid equilibrium of water + glymes binary mixtures: Experimental measurements and molecular thermodynamic modelling. <i>Fluid Phase Equilibria</i> , 2020 , 513, 112547	2.5	4
86	Modeling asphaltene precipitation in Algerian oilfields with the CPA EoS. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 190, 107115	4.4	4
85	Temperature-responsive extraction of violacein using a tuneable anionic surfactant-based system. <i>Chemical Communications</i> , 2019 , 55, 8643-8646	5.8	4
84	Modeling Hydrate Dissociation Curves in the Presence of Hydrate Inhibitors with a Modified CPA EoS. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19239-19250	3.9	4
83	Experimental measurements and modeling of CO ₂ solubility in sunflower, castor and rapeseed oils. <i>Journal of Supercritical Fluids</i> , 2013 , 82, 191-199	4.2	4
82	Modelling Phase Equilibria in Systems with Organic Solid Solutions. <i>Computer Aided Chemical Engineering</i> , 2004 , 229-249	0.6	4
81	Development of quantitative structure-property relationship to predict the viscosity of deep eutectic solvent for CO ₂ capture using molecular descriptor. <i>Journal of Molecular Liquids</i> , 2022 , 347, 118239	6	4
80	. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15058-15068	3.9	4
79	Sustainable liquid supports for laccase immobilization and reuse: Degradation of dyes in aqueous biphasic systems. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2514-2523	4.9	4
78	Understanding the adsorption of ionic liquids onto zeolite ZSM-5 from aqueous solution: experimental and computational modelling. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24518-24526	3.6	4
77	Solvatochromism as a new tool to distinguish structurally similar compounds. <i>Journal of Molecular Liquids</i> , 2019 , 274, 740-745	6	4
76	Aqueous Two-Phase Systems 2020 , 157-182		4
75	Propranolol resolution using enantioselective biphasic systems. <i>Separation and Purification Technology</i> , 2021 , 254, 117682	8.3	4
74	The impact of oligomeric anions on the speciation of protic ionic liquids. <i>Fluid Phase Equilibria</i> , 2021 , 531, 112919	2.5	4
73	Solvent extraction in extended hydrogen bonded fluids Separation of Pt(IV) from Pd(II) using TOPO-based type V DES. <i>Green Chemistry</i> , 2021 , 23, 4540-4550	10	4
72	Recovery of Chlorophyll a Derivative from <i>Spirulina maxima</i> : Its Purification and Photosensitizing Potential. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1772-1780	8.3	4
71	A comparative analysis of thermophysical properties correlations for n-paraffins to be used in wax precipitation modeling. <i>Fluid Phase Equilibria</i> , 2018 , 472, 172-184	2.5	4
70	Aqueous biphasic systems in the separation of food colorants. <i>Biochemistry and Molecular Biology Education</i> , 2018 , 46, 390-397	1.3	3

69	Modeling of Hydrate Dissociation Curves with a Modified Cubic-Plus-Association Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14476-14487	3.9	3
68	Solid-Liquid Equilibria for Hexafluorophosphate-Based Ionic Liquid Quaternary Mixtures and Their Corresponding Subsystems. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 8954-8969	3.4	3
67	Process Engineering Versus Product Engineering. <i>Chemical Engineering Research and Design</i> , 2005 , 83, 352-356	5.5	3
66	Assessment of yeast viability under hyperbaric conditions through a modeling approach. <i>Journal of Chemical Technology and Biotechnology</i> , 2005 , 80, 872-877	3.5	3
65	Development of a Microfluidic Platform for R-Phycoerythrin Purification Using an Aqueous Micellar Two-Phase System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17097-17105	8.3	3
64	Infinite Dilution Activity Coefficients in the Smectic and Isotropic Phases of Tetrafluoroborate-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 2587-2596 ^{2.8}		3
63	A Statistical Associating Fluid Theory Perspective of the Modeling of Compounds Containing Ethylene Oxide Groups. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3562-3582	3.9	3
62	Extraction and purification of violacein from <i>Yarrowia lipolytica</i> cells using aqueous solutions of surfactants. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 95, 1126	3.5	3
61	One-Step All-Aqueous Interfacial Assembly of Robust Membranes for Long-Term Encapsulation and Culture of Adherent Stem/Stromal Cells. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100266	10.1	3
60	Amino-acid-based chiral ionic liquids characterization and application in aqueous biphasic systems. <i>Fluid Phase Equilibria</i> , 2021 , 542-543, 113091	2.5	3
59	Bio-Based Solar Energy Harvesting for Onsite Mobile Optical Temperature Sensing in Smart Cities.. <i>Advanced Science</i> , 2022 , e2104801	13.6	3
58	Type V deep eutectic solvents: Design and applications. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022 , 35, 100612	7.9	3
57	Using Volume Shifts To Improve the Description of Speed of Sound and Other Derivative Properties with Cubic Equations of State. <i>Industrial & Engineering Chemistry Research</i> , 2019 ,	3.9	2
56	Light olefins/paraffins sorption in poly(lactic acid) films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 1312-1319	2.6	2
55	Enhanced Dissolution of Chitin Using Acidic Deep Eutectic Solvents: A Sustainable and Simple Approach to Extract Chitin from Crayfish shell Wastes as Alternative Feedstocks. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	2
54	Uncovering the potential of aqueous solutions of deep eutectic solvents on the extraction and purification of collagen type I from Atlantic codfish (<i>Gadus morhua</i>). <i>Green Chemistry</i> , 2021 , 23, 8940-8948 ¹⁰		2
53	Understanding the thermal behaviour of blends of biodiesel and diesel: Phase behaviour of binary mixtures of alkanes and FAMES. <i>Fuel</i> , 2020 , 262, 116488	7.1	2
52	Distinct roles of salt cations and anions upon the salting-out of electro-positive albumin. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112409	6	2

51	Physical properties and solid-liquid equilibria for hexafluorophosphate-based ionic liquid ternary mixtures and their corresponding subsystems. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113742	6	2
50	The role of carboxyl groups upon the precipitation of albumin at low pH. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114206	6	2
49	The influence of zwitterions on the partition of biomolecules in aqueous biphasic systems. <i>Separation and Purification Technology</i> , 2020 , 253, 117537	8.3	2
48	A HNO ₃ -Responsive Aqueous Biphasic System for Metal Separation: Application towards Ce Recovery. <i>ChemSusChem</i> , 2021 , 14, 3018-3026	8.3	2
47	Engineering Cytochrome C with Quantum Dots and Ionic Liquids: A Win-Win Strategy for Protein Packaging against Multiple Stresses. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8327-8335	8.3	2
46	Toward the Recovery and Reuse of the ABS Phase-Forming Components. <i>Green Chemistry and Sustainable Technology</i> , 2016 , 285-315	1.1	2
45	Purification of green fluorescent protein using fast centrifugal partition chromatography. <i>Separation and Purification Technology</i> , 2021 , 257, 117648	8.3	2
44	Integrated Biocatalytic Platform Based on Aqueous Biphasic Systems for the Sustainable Oligomerization of Rutin. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9941-9950	8.3	2
43	Valorization of Spent Coffee by Caffeine Extraction Using Aqueous Solutions of Cholinium-Based Ionic Liquids. <i>Sustainability</i> , 2021 , 13, 7509	3.6	2
42	Solid-liquid phase behavior of eutectic solvents containing sugar alcohols. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116392	6	2
41	Aqueous solutions of organic acids as effective solvents for levodopa extraction from <i>Mucuna pruriens</i> seeds. <i>Separation and Purification Technology</i> , 2021 , 274, 119084	8.3	2
40	A Triple Salting-Out Effect is Required for the Formation of Ionic-Liquid-Based Aqueous Multiphase Systems. <i>Angewandte Chemie</i> , 2017 , 129, 15254-15258	3.6	2
39	Octanol/Water Partition Coefficients and Aqueous Solubility Data of Monoterpenoids: Experimental, Modeling, and Environmental Distribution. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 3154-3167	3.9	2
38	Application of Ionic Liquids in Separation and Fractionation Processes 2019 , 637-665		1
37	The cation effect on the solubility of glycylglycine and N-acetylglycine in aqueous solution: Experimental and molecular dynamics studies. <i>Journal of Molecular Liquids</i> , 2020 , 310, 113044	6	1
36	High-Pressure Density of Bis(1-alkyl-3-methylimidazolium) Tetraisothiocyanatocobaltate Ionic Liquids: Experimental and PC-SAFT with Volume-Shift Modeling. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4827-4833	2.8	1
35	Modeling Biodiesel Production and Purification ¶ Towards a Predictive Tool. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 2881-2886	0.6	1
34	Separation of Albumin from Bovine Serum Applying Ionic-Liquid-Based Aqueous Biphasic Systems. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 707	2.6	1

33	Comparison of two computational methods for solvent screening in countercurrent and centrifugal partition chromatography.. <i>Journal of Chromatography A</i> , 2022 , 1666, 462859	4.5	1
32	Ionic liquids or eutectic solvents? Identifying the best solvents for the extraction of astaxanthin and β-carotene from <i>Phaffia rhodozyma</i> yeast and preparation of biodegradable films. <i>Green Chemistry</i> , 2022 , 24, 118-123	10	1
31	Physico-chemical characterization of aqueous solutions of superbase ionic liquids with cellulose dissolution capability. <i>Fluid Phase Equilibria</i> , 2022 , 113414	2.5	1
30	A simple approach for the determination and characterization of ternary phase diagrams of aqueous two-phase systems composed of water, polyethylene glycol and sodium carbonate 2019 , 53, 112-120		1
29	The excess volumes of protic ionic liquids and its significance to their thermodynamic modelling. <i>Fluid Phase Equilibria</i> , 2022 , 552, 113277	2.5	1
28	Theoretically consistent calculation of viscous activation parameters through the Eyring equation and their interpretation. <i>Fluid Phase Equilibria</i> , 2020 , 522, 112774	2.5	1
27	Selective Sequential Recovery of Zinc and Copper from Acid Mine Drainage. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3647-3657	8.3	1
26	Gaseous hetero dimers of perfluoro tert-butyl alcohol with hydrogenated alcohols by infrared spectroscopy and quantum DFT calculations. <i>Chemical Physics</i> , 2021 , 544, 111110	2.3	1
25	Enhancing Artemisinin Solubility in Aqueous Solutions: Searching for Hydrotropes based on Ionic Liquids. <i>Fluid Phase Equilibria</i> , 2021 , 534, 112961	2.5	1
24	Toward a Critical Evaluation of DES-Based Organic Biphasic Systems: Are Deep Eutectic Solvents so Critical?. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9707-9716	8.3	1
23	Controlling the l-asparaginase extraction and purification by the appropriate selection of polymer/salt-based aqueous biphasic systems. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 95, 1016	3.5	1
22	Study of fame production from waste cooking oil: Operation in batch and continuous regime with regeneration of enzyme catalyst. <i>Energy Reports</i> , 2020 , 6, 751-756	4.6	1
21	Integrated Production and Separation of Furfural Using an Acidic-Based Aqueous Biphasic System. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12205-12212	8.3	1
20	The structure of liquid perfluoro Tert-Butanol using Infrared, Raman and X-Ray scattering analyzed by quantum DFT calculations and molecular Dynamics. <i>Chemical Physics Letters</i> , 2021 , 779, 138844	2.5	1
19	Unveiling the phase behavior of CE non-ionic surfactants in water through coarse-grained molecular dynamics simulations. <i>Soft Matter</i> , 2021 , 17, 5183-5196	3.6	1
18	Predicting the Thermodynamic Behaviour of Water + Ionic Liquids Systems Using COSMO-RS101-121		1
17	The impact of size and shape in the performance of hydrotropes: a case-study of alkanediols.. <i>Physical Chemistry Chemical Physics</i> , 2022 , 24, 7624-7634	3.6	1
16	Ionogels for Biomedical Applications. <i>Materials Horizons</i> , 2022 , 391-425	0.6	1

15	Breaking the Structure of Liquid Hydrogenated Alcohols Using Perfluorinated -Butanol: A Multitechnique Approach (Infrared, Raman, and X-ray Scattering) Analyzed by DFT and Molecular Dynamics Calculations.. <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	1
14	Chlorophylls Extraction from Spinach Leaves Using Aqueous Solutions of Surface-Active Ionic Liquids. <i>Sustainable Chemistry</i> , 2021 , 2, 764-777	3.6	1
13	Purification of Immunoglobulin Y from egg yolk using thermoresponsive aqueous micellar two-phase systems comprising ionic liquids. <i>Separation and Purification Technology</i> , 2022 , 120589	8.3	0
12	Aqueous Biphasic Systems Comprising Natural Organic Acid-Derived Ionic Liquids. <i>Separations</i> , 2022 , 9, 46	3.1	0
11	Potential Threats of Ionic Liquids to the Environment and Ecosphere 2020 , 1-17		0
10	On the aggregation of bovine serum albumin. <i>Journal of Molecular Liquids</i> , 2021 , 349, 118183	6	0
9	Application of Ionic Liquids in Separation and Fractionation Processes 2018 , 1-29		0
8	3. Aqueous biphasic systems formed by cholinium-based ionic liquids and mixtures of polymers 2019 , 29-54		0
7	Why is the CO ₂ -CS ₂ non-ideality larger than in CO ₂ -Cl ₄ ? A Raman scattering study. <i>Chemical Physics Letters</i> , 2013 , 583, 49-53	2.5	
6	Mass Spectrometric Studies on Ionic Liquid Aggregates 2012 , 49-61		
5	Selective extraction of mercaptans from hydrocarbons mixtures using ionic liquids in membrane contactors. <i>Procedia Engineering</i> , 2012 , 44, 1284-1286		
4	Modeling wax formation with predictive UNIQUAC: from petroleum and fuels to biofuels. <i>MATEC Web of Conferences</i> , 2013 , 3, 01001	0.3	
3	Advances achieved in solid-phase microextraction using polymeric ionic liquids 2022 , 347-381		
2	Nucleophilic degradation of diazinon in thermoreversible polymer-polymer aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4133-4140	3.6	
1	Encapsulated Protic Ionic Liquids as Sustainable Materials for CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4046-4057	3.9	