

João A Coutinho

List of Publications by Year in descending order

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741
papers

41,634
citations

2322

98
h-index

6836

155
g-index

755
all docs

755
docs citations

755
times ranked

19040
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous biphasic systems: a boost brought about by using ionic liquids. <i>Chemical Society Reviews</i> , 2012, 41, 4966.	38.1	726
2	Ionic-Liquid-Mediated Extraction and Separation Processes for Bioactive Compounds: Past, Present, and Future Trends. <i>Chemical Reviews</i> , 2017, 117, 6984-7052.	47.7	689
3	Insights into the Nature of Eutectic and Deep Eutectic Mixtures. <i>Journal of Solution Chemistry</i> , 2019, 48, 962-982.	1.2	603
4	Hydrolysis of Tetrafluoroborate and Hexafluorophosphate Counter Ions in Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3744-3749.	2.5	551
5	Surface tensions of imidazolium based ionic liquids: Anion, cation, temperature and water effect. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 621-630.	9.4	406
6	High-Pressure Densities and Derived Thermodynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 80-88.	1.9	381
7	Surface tension of ionic liquids and ionic liquid solutions. <i>Chemical Society Reviews</i> , 2012, 41, 829-868.	38.1	375
8	Mutual Solubilities of Water and Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13082-13089.	2.6	374
9	Ionic liquid solutions as extractive solvents for value-added compounds from biomass. <i>Green Chemistry</i> , 2014, 16, 4786-4815.	9.0	357
10	Mutual Solubilities of Water and the [C _n mim][Tf ₂ N] Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1604-1610.	2.6	325
11	An overview of the mutual solubilities of water–imidazolium-based ionic liquids systems. <i>Fluid Phase Equilibria</i> , 2007, 261, 449-454.	2.5	302
12	Ionic Liquids: A First Direct Determination of their Cohesive Energy. <i>Journal of the American Chemical Society</i> , 2007, 129, 284-285.	13.7	295
13	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, 9304-9310.	2.6	295
14	Thermophysical Characterization of Ionic Liquids Able To Dissolve Biomass. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4813-4822.	1.9	295
15	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.	6.4	287
16	Densities and Viscosities of Fatty Acid Methyl and Ethyl Esters. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3983-3990.	1.9	282
17	Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1881-1888.	1.9	277
18	Group contribution methods for the prediction of thermophysical and transport properties of ionic liquids. <i>AIChE Journal</i> , 2009, 55, 1274-1290.	3.6	274

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19	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.	4.1	272
20	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	268
21	Toxicity assessment of various ionic liquid families towards <i>Vibrio fischeri</i> marine bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2012, 76, 162-168.	6.0	254
22	A group contribution method for viscosity estimation of ionic liquids. <i>Fluid Phase Equilibria</i> , 2008, 266, 195-201.	2.5	242
23	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, 5194-5199.	2.6	237
24	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.	1.9	233
25	Designing ionic liquids: the chemical structure role in the toxicity. <i>Ecotoxicology</i> , 2013, 22, 1-12.	2.4	230
26	Evaluation of Cation ⁺ Anion Interaction Strength in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4033-4041.	2.6	227
27	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	220
28	Extended scale for the hydrogen-bond basicity of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6593.	2.8	218
29	Effect of Water on the Viscosities and Densities of 1-Butyl-3-methylimidazolium Dicyanamide and 1-Butyl-3-methylimidazolium Tricyanomethane at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 645-652.	1.9	216
30	High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , 2010, 12, 1715.	9.0	213
31	Alkylimidazolium Based Ionic Liquids: Impact of Cation Symmetry on Their Nanoscale Structural Organization. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10889-10897.	2.6	207
32	Tunable Hydrophobic Eutectic Solvents Based on Terpenes and Monocarboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8836-8846.	6.7	207
33	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, 6803-6812.	2.6	201
34	Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1346-1350.	1.9	199
35	High-Accuracy Vapor Pressure Data of the Extended [C _n 1][Ntf ₂] Ionic Liquid Series: Trend Changes and Structural Shifts. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10919-10926.	2.6	199
36	Systematic Study of the Thermophysical Properties of Imidazolium-Based Ionic Liquids with Cyano-Functionalized Anions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10271-10283.	2.6	195

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37	Aqueous biphasic systems composed of a water-stable ionic liquid + carbohydrates and their applications. <i>Green Chemistry</i> , 2011, 13, 1536.	9.0	185
38	Ecotoxicity analysis of cholinium-based ionic liquids to <i>Vibrio fischeri</i> marine bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2014, 102, 48-54.	6.0	185
39	Extraction of Biomolecules Using Phosphonium-Based Ionic Liquids + K ₃ PO ₄ Aqueous Biphasic Systems. <i>International Journal of Molecular Sciences</i> , 2010, 11, 1777-1791.	4.1	181
40	Role of the Hofmeister Series in the Formation of Ionic-Liquid-Based Aqueous Biphasic Systems. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7252-7258.	2.6	181
41	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2010, 75, 39-47.	7.9	180
42	Are Aqueous Biphasic Systems Composed of Deep Eutectic Solvents Ternary or Quaternary Systems?. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2881-2886.	6.7	177
43	Ion Specific Effects on the Mutual Solubilities of Water and Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 202-211.	2.6	175
44	Biodiesel Density: Experimental Measurements and Prediction Models. <i>Energy & Fuels</i> , 2011, 25, 2333-2340.	5.1	169
45	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.	3.7	169
46	Ionic liquids as adjuvants for the tailored extraction of biomolecules in aqueous biphasic systems. <i>Green Chemistry</i> , 2010, 12, 1661.	9.0	168
47	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.	3.2	167
48	High carbon dioxide solubilities in trihexyltetradecylphosphonium-based ionic liquids. <i>Journal of Supercritical Fluids</i> , 2010, 52, 258-265.	3.2	164
49	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.	3.9	164
50	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, 1831-1839.	3.3	157
51	Production and characterization of a bioemulsifier from <i>Yarrowia lipolytica</i> . <i>Process Biochemistry</i> , 2006, 41, 1894-1898.	3.7	156
52	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.	7.9	156
53	The magic of aqueous solutions of ionic liquids: ionic liquids as a powerful class of catanionic hydrotropes. <i>Green Chemistry</i> , 2015, 17, 3948-3963.	9.0	156
54	Thermophysical properties of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 948-957.	2.0	155

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55	A Group Contribution Method for Heat Capacity Estimation of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5751-5757.	3.7	152
56	Evaluation of activity coefficient models in prediction of alkane solid-liquid equilibria. <i>Fluid Phase Equilibria</i> , 1995, 103, 23-39.	2.5	149
57	Applying a QSPR correlation to the prediction of surface tensions of ionic liquids. <i>Fluid Phase Equilibria</i> , 2008, 265, 57-65.	2.5	148
58	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.	3.7	146
59	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	144
60	Thermophysical Properties of Five Acetate-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3005-3013.	1.9	143
61	Mutual solubilities of hydrocarbons and water with the CPA EoS. <i>Fluid Phase Equilibria</i> , 2007, 258, 58-66.	2.5	140
62	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.	3.2	139
63	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. <i>RSC Advances</i> , 2013, 3, 1835-1843.	3.6	138
64	Surface Tension of Heptane, Decane, Hexadecane, Eicosane, and Some of Their Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 1442-1445.	1.9	137
65	(Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids. <i>Separation and Purification Technology</i> , 2010, 72, 85-91.	7.9	137
66	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.	2.8	132
67	Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1914-1921.	1.9	130
68	Separation of ethanol-water mixtures by liquid-liquid extraction using phosphonium-based ionic liquids. <i>Green Chemistry</i> , 2011, 13, 1517.	9.0	129
69	Predictive methods for the estimation of thermophysical properties of ionic liquids. <i>RSC Advances</i> , 2012, 2, 7322.	3.6	129
70	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	127
71	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, 3380-3389.	2.6	127
72	Enhanced extraction of caffeine from guaraná seeds using aqueous solutions of ionic liquids. <i>Green Chemistry</i> , 2013, 15, 2002.	9.0	127

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73	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.	3.0	127
74	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.	9.0	125
75	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, 106-113.	12.4	125
76	Electrospun nanosized cellulose fibers using ionic liquids at room temperature. <i>Green Chemistry</i> , 2011, 13, 3173.	9.0	124
77	Assessing the toxicity on [C3mim][Tf2N] to aquatic organisms of different trophic levels. <i>Aquatic Toxicology</i> , 2010, 96, 290-297.	4.0	122
78	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.	6.7	121
79	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, 1605-1620.	2.5	120
80	Tryptophan extraction using hydrophobic ionic liquids. <i>Separation and Purification Technology</i> , 2010, 72, 167-173.	7.9	119
81	Ecotoxicity of Cholinium-Based Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3398-3404.	6.7	119
82	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.	1.9	118
83	Prediction of aqueous solubilities of solid carboxylic acids with COSMO-RS. <i>Fluid Phase Equilibria</i> , 2010, 289, 140-147.	2.5	117
84	Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2828-2843.	1.9	117
85	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, 2004-2014.	2.6	116
86	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.	7.9	116
87	Sustainable hydrophobic terpene-based eutectic solvents for the extraction and separation of metals. <i>Chemical Communications</i> , 2018, 54, 8104-8107.	4.1	116
88	Environmental safety of cholinium-based ionic liquids: assessing structure-ecotoxicity relationships. <i>Green Chemistry</i> , 2015, 17, 4657-4668.	9.0	115
89	Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2378-2382.	1.9	114
90	Probing the Interactions between Ionic Liquids and Water: Experimental and Quantum Chemical Approach. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1848-1860.	2.6	111

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91	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.	3.7	110
92	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2012, 97, 142-149.	7.9	108
93	Vapor-Liquid Equilibrium of Carbon Dioxide-Perfluoroalkane Mixtures: Experimental Data and SAFT Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2341-2350.	3.7	107
94	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.	1.9	105
95	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	105
96	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.	3.7	101
97	High pressure CO ₂ solubility in N-methyl-2-hydroxyethylammonium protic ionic liquids. <i>Journal of Supercritical Fluids</i> , 2011, 56, 224-230.	3.2	100
98	CO ₂ in 1-Butyl-3-methylimidazolium Acetate. 2. NMR Investigation of Chemical Reactions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4890-4901.	2.5	100
99	Production and purification of an extracellular lipolytic enzyme using ionic liquid-based aqueous two-phase systems. <i>Green Chemistry</i> , 2012, 14, 734.	9.0	100
100	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.	5.2	100
101	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.	30.8	99
102	Characterization of aqueous biphasic systems composed of ionic liquids and a citrate-based biodegradable salt. <i>Biochemical Engineering Journal</i> , 2012, 67, 68-76.	3.6	99
103	Hydrogen-bond acidity of ionic liquids: an extended scale. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18980-18990.	2.8	99
104	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. <i>Molecules</i> , 2020, 25, 3652.	3.8	99
105	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.	6.7	98
106	Salting-Out Effects in Aqueous Ionic Liquid Solutions: Cloud-Point Temperature Shifts. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4737-4741.	2.6	97
107	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.	4.6	96
108	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.	1.9	96

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109	Novel Biocompatible and Self-buffering Ionic Liquids for Biopharmaceutical Applications. Chemistry - A European Journal, 2015, 21, 4781-4788.	3.3	96
110	(Eco)toxicity and biodegradability of protic ionic liquids. Chemosphere, 2016, 147, 460-466.	8.2	96
111	Laccase Activation in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2019, 7, 11806-11814.	6.7	95
112	On the spontaneous carboxylation of 1-butyl-3-methylimidazolium acetate by carbon dioxide. Chemical Communications, 2012, 48, 1245-1247.	4.1	94
113	Good's buffers as a basis for developing self-buffering and biocompatible ionic liquids for biological research. Green Chemistry, 2014, 16, 3149-3159.	9.0	94
114	Thermophysical properties of sulfonium- and ammonium-based ionic liquids. Fluid Phase Equilibria, 2014, 381, 36-45.	2.5	94
115	Cytotoxicity profiling of deep eutectic solvents to human skin cells. Scientific Reports, 2019, 9, 3932.	3.3	93
116	Surface tension and refractive index of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. Journal of Chemical Thermodynamics, 2013, 57, 372-379.	2.0	92
117	Enhanced extraction of proteins using cholinium-based ionic liquids as phase-forming components of aqueous biphasic systems. Biotechnology Journal, 2015, 10, 1457-1466.	3.5	92
118	Design of ionic liquids for lipase purification. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 2679-2687.	2.3	91
119	Prediction of Cloud Points of Biodiesel. Energy & Fuels, 2008, 22, 747-752.	5.1	90
120	Molecular interactions in aqueous biphasic systems composed of polyethylene glycol and crystalline vs. liquid cholinium-based salts. Physical Chemistry Chemical Physics, 2014, 16, 5723.	2.8	90
121	Simple screening method to identify toxic/non-toxic ionic liquids: Agar diffusion test adaptation. Ecotoxicology and Environmental Safety, 2012, 83, 55-62.	6.0	89
122	Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. Green Chemistry, 2014, 16, 259-268.	9.0	89
123	Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids. Fluid Phase Equilibria, 2017, 448, 69-80.	2.5	88
124	Surface Tensions of Bis(trifluoromethylsulfonyl)imide Anion-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2010, 55, 3807-3812.	1.9	87
125	Binary interaction parameters for nonpolar systems with cubic equations of state: a theoretical approach 1. CO ₂ /hydrocarbons using SRK equation of state. Fluid Phase Equilibria, 1994, 102, 31-60.	2.5	86
126	The Limitations of the Cloud Point Measurement Techniques and the Influence of the Oil Composition on Its Detection. Petroleum Science and Technology, 2005, 23, 1113-1128.	1.5	86

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127	Evaluation of Predictive Models for the Viscosity of Biodiesel. <i>Energy & Fuels</i> , 2011, 25, 352-358.	5.1	86
128	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.	2.0	85
129	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	85
130	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, 11145-11153.	2.6	85
131	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, 6116-6128.	2.6	85
132	Dispelling some myths about the CO ₂ solubility in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14757-14771.	2.8	85
133	Greener Terpene—Terpene Eutectic Mixtures as Hydrophobic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17414-17423.	6.7	85
134	Dynamic rheological analysis of the gelation behaviour of waxy crude oils. <i>Rheologica Acta</i> , 2004, 43, 433-441.	2.4	84
135	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	84
136	Viscosity and Liquid Density of Asymmetric Hydrocarbon Mixtures. <i>International Journal of Thermophysics</i> , 2003, 24, 1221-1239.	2.1	83
137	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.	2.8	83
138	Sustainable design for environment-friendly mono and dicationic cholinium-based ionic liquids. <i>Ecotoxicology and Environmental Safety</i> , 2014, 108, 302-310.	6.0	83
139	Long-term protein packaging in cholinium-based ionic liquids: improved catalytic activity and enhanced stability of cytochrome c against multiple stresses. <i>Green Chemistry</i> , 2017, 19, 4900-4911.	9.0	83
140	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.	2.0	82
141	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.	7.9	82
142	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.	3.7	82
143	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.	13.8	82
144	Novel insights into biomass delignification with acidic deep eutectic solvents: a mechanistic study of β -O-4 ether bond cleavage and the role of the halide counterion in the catalytic performance. <i>Green Chemistry</i> , 2020, 22, 2474-2487.	9.0	82

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145	Solubility of oxygen in liquid perfluorocarbons. <i>Fluid Phase Equilibria</i> , 2004, 222-223, 325-330.	2.5	81
146	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.	2.0	81
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