

# Joao A P Coutinho

## List of Publications by Year in descending order

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367  
papers

25,277  
citations

5268

83  
h-index

10158

140  
g-index

372  
all docs

372  
docs citations

372  
times ranked

12992  
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 &amp; 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 <sub>n</sub> mim][Tf <sub>2</sub> N] Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1604-1610.	2.6	325
11	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
12	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
13	Thermophysical Characterization of Ionic Liquids Able To Dissolve Biomass. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 4813-4822.	1.9	295
14	Thermal Conductivity Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 1881-1888.	1.9	277
15	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
16	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
17	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
18	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

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19	Densities and Derived Thermodynamic Properties of Imidazolium-, Pyridinium-, Pyrrolidinium-, and Piperidinium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 805-811.	1.9	233
20	Designing ionic liquids: the chemical structure role in the toxicity. <i>Ecotoxicology</i> , 2013, 22, 1-12.	2.4	230
21	Evaluation of Cation <sup>+</sup> Anion Interaction Strength in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4033-4041.	2.6	227
22	Extended scale for the hydrogen-bond basicity of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6593.	2.8	218
23	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 &amp; Engineering Data</i> , 2010, 55, 645-652.	1.9	216
24	High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , 2010, 12, 1715.	9.0	213
25	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
26	Tunable Hydrophobic Eutectic Solvents Based on Terpenes and Monocarboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8836-8846.	6.7	207
27	Specific Solvation Interactions of CO <sub>2</sub> 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
28	Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 1346-1350.	1.9	199
29	High-Accuracy Vapor Pressure Data of the Extended [C <sub>n</sub> Im][Ntf <sub>2</sub> ] Ionic Liquid Series: Trend Changes and Structural Shifts. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10919-10926.	2.6	199
30	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
31	Aqueous biphasic systems composed of a water-stable ionic liquid + carbohydrates and their applications. <i>Green Chemistry</i> , 2011, 13, 1536.	9.0	185
32	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
33	Extraction of Biomolecules Using Phosphonium-Based Ionic Liquids + K <sub>3</sub> PO <sub>4</sub> Aqueous Biphasic Systems. <i>International Journal of Molecular Sciences</i> , 2010, 11, 1777-1791.	4.1	181
34	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
35	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
36	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

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37	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 &amp; Engineering Chemistry Research</i> , 2012, 51, 3483-3507.	3.7	169
38	Ionic liquids as adjuvants for the tailored extraction of biomolecules in aqueous biphasic systems. <i>Green Chemistry</i> , 2010, 12, 1661.	9.0	168
39	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
40	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
41	Thermophysical Properties of Five Acetate-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 3005-3013.	1.9	143
42	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. <i>RSC Advances</i> , 2013, 3, 1835-1843.	3.6	138
43	Surface Tension of Heptane, Decane, Hexadecane, Eicosane, and Some of Their Binary Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 1442-1445.	1.9	137
44	Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 1914-1921.	1.9	130
45	Separation of ethanol–water mixtures by liquid–liquid extraction using phosphonium-based ionic liquids. <i>Green Chemistry</i> , 2011, 13, 1517.	9.0	129
46	Predictive methods for the estimation of thermophysical properties of ionic liquids. <i>RSC Advances</i> , 2012, 2, 7322.	3.6	129
47	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
48	Enhanced extraction of caffeine from guaraná seeds using aqueous solutions of ionic liquids. <i>Green Chemistry</i> , 2013, 15, 2002.	9.0	127
49	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
50	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
51	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
52	Electrospun nanosized cellulose fibers using ionic liquids at room temperature. <i>Green Chemistry</i> , 2011, 13, 3173.	9.0	124
53	Assessing the toxicity on [C3mim][Tf2N] to aquatic organisms of different trophic levels. <i>Aquatic Toxicology</i> , 2010, 96, 290-297.	4.0	122
54	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

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55	Ecotoxicity of Cholinium-Based Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2015, 3, 3398-3404.	6.7	119
56	Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. Journal of Chemical & Engineering Data, 2016, 61, 2828-2843.	1.9	117
57	<sup>1</sup> H NMR and Molecular Dynamics Evidence for an Unexpected Interaction on the Origin of Salting-In/Salting-Out Phenomena. Journal of Physical Chemistry B, 2010, 114, 2004-2014.	2.6	116
58	Sustainable hydrophobic terpene-based eutectic solvents for the extraction and separation of metals. Chemical Communications, 2018, 54, 8104-8107.	4.1	116
59	Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2008, 53, 2378-2382.	1.9	114
60	Probing the Interactions between Ionic Liquids and Water: Experimental and Quantum Chemical Approach. Journal of Physical Chemistry B, 2014, 118, 1848-1860.	2.6	111
61	Predictive UNIQUAC: A New Model for the Description of Multiphase Solid-Liquid Equilibria in Complex Hydrocarbon Mixtures. Industrial & Engineering Chemistry Research, 1998, 37, 4870-4875.	3.7	110
62	Vapor-Liquid Equilibrium of Carbon Dioxide-Perfluoroalkane Mixtures: Experimental Data and SAFT Modeling. Industrial & Engineering Chemistry Research, 2006, 45, 2341-2350.	3.7	107
63	Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. Fluid Phase Equilibria, 2017, 448, 15-21.	2.5	105
64	CO <sub>2</sub> in 1-Butyl-3-methylimidazolium Acetate. 2. NMR Investigation of Chemical Reactions. Journal of Physical Chemistry A, 2012, 116, 4890-4901.	2.5	100
65	The polarity effect upon the methane solubility in ionic liquids: a contribution for the design of ionic liquids for enhanced CO <sub>2</sub> /CH <sub>4</sub> and H <sub>2</sub> S/CH <sub>4</sub> selectivities. Energy and Environmental Science, 2011, 4, 4614.	30.8	99
66	Hydrogen-bond acidity of ionic liquids: an extended scale. Physical Chemistry Chemical Physics, 2015, 17, 18980-18990.	2.8	99
67	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. Molecules, 2020, 25, 3652.	3.8	99
68	Design and Characterization of Sugar-Based Deep Eutectic Solvents Using Conductor-like Screening Model for Real Solvents. ACS Sustainable Chemistry and Engineering, 2018, 6, 10724-10734.	6.7	98
69	Salting-Out Effects in Aqueous Ionic Liquid Solutions: Cloud-Point Temperature Shifts. Journal of Physical Chemistry B, 2007, 111, 4737-4741.	2.6	97
70	On the Nonideality of CO <sub>2</sub> Solutions in Ionic Liquids and Other Low Volatile Solvents. Journal of Physical Chemistry Letters, 2010, 1, 774-780.	4.6	96
71	Ionic Liquid Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Cation Effect. Journal of Chemical & Engineering Data, 2011, 56, 4253-4260.	1.9	96
72	Novel Biocompatible and Self-Buffering Ionic Liquids for Biopharmaceutical Applications. Chemistry - A European Journal, 2015, 21, 4781-4788.	3.3	96

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73	(Eco)toxicity and biodegradability of protic ionic liquids. <i>Chemosphere</i> , 2016, 147, 460-466.	8.2	96
74	Laccase Activation in Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11806-11814.	6.7	95
75	On the spontaneous carboxylation of 1-butyl-3-methylimidazolium acetate by carbon dioxide. <i>Chemical Communications</i> , 2012, 48, 1245-1247.	4.1	94
76	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.	9.0	94
77	Thermophysical properties of sulfonium- and ammonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 381, 36-45.	2.5	94
78	Enhanced extraction of proteins using cholinium-based ionic liquids as phase-forming components of aqueous biphasic systems. <i>Biotechnology Journal</i> , 2015, 10, 1457-1466.	3.5	92
79	Design of ionic liquids for lipase purification. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 2679-2687.	2.3	91
80	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.	2.8	90
81	Simple screening method to identify toxic/non-toxic ionic liquids: Agar diffusion test adaptation. <i>Ecotoxicology and Environmental Safety</i> , 2012, 83, 55-62.	6.0	89
82	Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. <i>Green Chemistry</i> , 2014, 16, 259-268.	9.0	89
83	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.	1.5	86
84	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
85	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
86	Greener Terpene-Terpene Eutectic Mixtures as Hydrophobic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17414-17423.	6.7	85
87	Dynamic rheological analysis of the gelation behaviour of waxy crude oils. <i>Rheologica Acta</i> , 2004, 43, 433-441.	2.4	84
88	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
89	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
90	Vapor-Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 3737-3748.	3.7	82

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91	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
92	Novel insights into biomass delignification with acidic deep eutectic solvents: a mechanistic study of ̢-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
93	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, 2815-2825.	2.6	80
94	Lipase purification using ionic liquids as adjuvants in aqueous two-phase systems. <i>Green Chemistry</i> , 2015, 17, 3026-3034.	9.0	78
95	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.	6.7	77
96	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31653-31661.	2.8	77
97	Predictive Local Composition Models for Solid/Liquid Equilibrium in Alkane Systems: A Wilson Equation for Multicomponent Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 918-925.	3.7	76
98	Cation Symmetry effect on the Volatility of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10922-10927.	2.6	76
99	SAFT Modeling of the Solubility of Gases in Perfluoroalkanes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1450-1457.	2.6	75
100	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.	3.2	75
101	Cation Alkyl Side Chain Length and Symmetry Effects on the Surface Tension of Ionic Liquids. <i>Langmuir</i> , 2014, 30, 6408-6418.	3.5	75
102	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.	3.8	75
103	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. <i>ChemSusChem</i> , 2018, 11, 753-762.	6.8	75
104	Mutual Solubility of Water and Structural/Positional Isomers of <i>N</i> -Alkylpyridinium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15925-15934.	2.6	74
105	Overview of the Excess Enthalpies of the Binary Mixtures Composed of Molecular Solvents and Ionic Liquids and Their Modeling Using COSMO-RS. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13862-13874.	3.7	74
106	Improved recovery of ionic liquids from contaminated aqueous streams using aluminium-based salts. <i>RSC Advances</i> , 2012, 2, 10882.	3.6	73
107	Thermoreversible (Ionic-Liquid-Based) Aqueous Biphasic Systems. <i>Scientific Reports</i> , 2016, 6, 20276.	3.3	72
108	Recovery of phycobiliproteins from the red macroalga <i>Gracilaria</i> sp. using ionic liquid aqueous solutions. <i>Green Chemistry</i> , 2016, 18, 4287-4296.	9.0	71

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109	Experimental Measurements and Thermodynamic Modeling of Paraffinic Wax Formation in Undercooled Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 4977-4983.	3.7	70
110	Biosurfactants from Yeasts: Characteristics, Production and Application. <i>Advances in Experimental Medicine and Biology</i> , 2010, 672, 236-249.	1.6	70
111	Protic ionic liquid as additive on lipase immobilization using silica sol-gel. <i>Enzyme and Microbial Technology</i> , 2013, 52, 141-150.	3.2	70
112	Aging mechanisms of perfluorocarbon emulsions using image analysis. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 224-232.	9.4	69
113	On the Interactions between Amino Acids and Ionic Liquids in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13971-13979.	2.6	68
114	Understanding the Formation of Deep Eutectic Solvents: Betaine as a Universal Hydrogen Bond Acceptor. <i>ChemSusChem</i> , 2020, 13, 4916-4921.	6.8	68
115	Speed of Sound, Density, and Derivative Properties of Ethyl Myristate, Methyl Myristate, and Methyl Palmitate under High Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 1371-1377.	1.9	67
116	Thermophysical properties of phosphonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2015, 400, 103-113.	2.5	67
117	Non-ionic hydrophobic eutectics – versatile solvents for tailored metal separation and valorisation. <i>Green Chemistry</i> , 2020, 22, 2810-2820.	9.0	67
118	Low-Pressure Modeling of Wax Formation in Crude Oils. <i>Energy &amp; Fuels</i> , 2001, 15, 1454-1460.	5.1	66
119	Cloud Points: Can We Measure or Model Them?. <i>Petroleum Science and Technology</i> , 2003, 21, 345-358.	1.5	66
120	Optimization of oxygen mass transfer in a multiphase bioreactor with perfluorodecalin as a second liquid phase. <i>Biotechnology and Bioengineering</i> , 2008, 99, 588-598.	3.3	65
121	Extraction and stability of bovine serum albumin (BSA) using cholinium-based Good's buffers ionic liquids. <i>Process Biochemistry</i> , 2015, 50, 1158-1166.	3.7	65
122	Improving the extraction and purification of immunoglobulin G by the use of ionic liquids as adjuvants in aqueous biphasic systems. <i>Journal of Biotechnology</i> , 2016, 236, 166-175.	3.8	65
123	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.	6.7	65
124	Densities and Vapor Pressures of Highly Fluorinated Compounds. <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 1328-1333.	1.9	64
125	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, 1831-1842.	2.6	64
126	Ionic-Liquid-Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Anion Effect. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 507-512.	1.9	64



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127	The effect of the cation alkyl chain branching on mutual solubilities with water and toxicities. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19952.	2.8	64
128	Solid~Liquid~Vapor Phase Boundary of a North Sea Waxy Crude:~% Measurement and Modeling. <i>Energy &amp; Fuels</i> , 2001, 15, 730-735.	5.1	63
129	Reliable Wax Predictions for Flow Assurance. <i>Energy &amp; Fuels</i> , 2006, 20, 1081-1088.	5.1	63
130	Enhanced Conversion of Xylan into Furfural using Acidic Deep Eutectic Solvents with Dual Solvent and Catalyst Behavior. <i>ChemSusChem</i> , 2020, 13, 784-790.	6.8	63
131	Ionic liquids microemulsions: the key to <i>Candida antarctica</i> lipase B superactivity. <i>Green Chemistry</i> , 2012, 14, 1620.	9.0	62
132	Thermophysical Properties of Glycols and Glymes. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 3721-3737.	1.9	62
133	Unraveling the ecotoxicity of deep eutectic solvents using the mixture toxicity theory. <i>Chemosphere</i> , 2018, 212, 890-897.	8.2	62
134	Surface Tension of Liquid Fluorocompounds. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 1820-1824.	1.9	61
135	Ionic-liquid-based aqueous biphasic systems for improved detection of bisphenol A in human fluids. <i>Analytical Methods</i> , 2012, 4, 2664.	2.7	61
136	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, 507-516.	3.0	60
137	Increased significance of food wastes: Selective recovery of added-value compounds. <i>Food Chemistry</i> , 2012, 135, 2453-2461.	8.2	59
138	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, 10503-10514.	2.6	58
139	Mutual solubilities between water and non-aromatic sulfonium-, ammonium- and phosphonium-hydrophobic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4569-4577.	2.8	58
140	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.	6.7	58
141	Novel bioemulsifier produced by a <i>Paenibacillus</i> strain isolated from crude oil. <i>Microbial Cell Factories</i> , 2015, 14, 14.	4.0	57
142	Characterization and Modeling of the Liquid Phase of Deep Eutectic Solvents Based on Fatty Acids/Alcohols and Choline Chloride. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12192-12202.	3.7	57
143	Phase Equilibria of Ethylene Glycol Oligomers and Their Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 7027-7037.	3.7	54
144	The solid~liquid phase diagrams of binary mixtures of consecutive, even saturated fatty acids: differing by four carbon atoms. <i>Chemistry and Physics of Lipids</i> , 2009, 157, 40-50.	3.2	54

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