

Mara G Freire

List of Publications by Year in descending order

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225
papers

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citations

9234

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Aqueous biphasic systems: a boost brought about by using ionic liquids. <i>Chemical Society Reviews</i> , 2012, 41, 4966.	18.7	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.	23.0	689
3	Hydrolysis of Tetrafluoroborate and Hexafluorophosphate Counter Ions in Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3744-3749.	1.1	551
4	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.	5.0	406
5	High-Pressure Densities and Derived Thermodynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 80-88.	1.0	381
6	Surface tension of ionic liquids and ionic liquid solutions. <i>Chemical Society Reviews</i> , 2012, 41, 829-868.	18.7	375
7	Mutual Solubilities of Water and Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13082-13089.	1.2	374
8	Ionic liquid solutions as extractive solvents for value-added compounds from biomass. <i>Green Chemistry</i> , 2014, 16, 4786-4815.	4.6	357
9	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.	1.2	325
10	An overview of the mutual solubilities of water in imidazolium-based ionic liquids systems. <i>Fluid Phase Equilibria</i> , 2007, 261, 449-454.	1.4	302
11	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.	1.2	295
12	Thermophysical Characterization of Ionic Liquids Able To Dissolve Biomass. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4813-4822.	1.0	295
13	ρ Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1881-1888.	1.0	277
14	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.	1.2	237
15	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.	1.0	233
16	Evaluation of Cation-Anion Interaction Strength in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4033-4041.	1.2	227
17	Extended scale for the hydrogen-bond basicity of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6593.	1.3	218
18	High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , 2010, 12, 1715.	4.6	213

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19	Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1346-1350.	1.0	199
20	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.	1.2	195
21	Aqueous biphasic systems composed of a water-stable ionic liquid + carbohydrates and their applications. <i>Green Chemistry</i> , 2011, 13, 1536.	4.6	185
22	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.	1.8	181
23	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.	1.2	181
24	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2010, 75, 39-47.	3.9	180
25	Are Aqueous Biphasic Systems Composed of Deep Eutectic Solvents Ternary or Quaternary Systems?. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2881-2886.	3.2	177
26	Ion Specific Effects on the Mutual Solubilities of Water and Hydrophobic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 202-211.	1.2	175
27	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.	1.8	169
28	Ionic liquids as adjuvants for the tailored extraction of biomolecules in aqueous biphasic systems. <i>Green Chemistry</i> , 2010, 12, 1661.	4.6	168
29	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.	1.7	157
30	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.	3.9	156
31	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.	4.6	156
32	Thermophysical properties of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 948-957.	1.0	155
33	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.	1.8	146
34	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.	1.4	144
35	Thermophysical Properties of Five Acetate-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3005-3013.	1.0	143
36	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. <i>RSC Advances</i> , 2013, 3, 1835-1843.	1.7	138

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37	(Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids. Separation and Purification Technology, 2010, 72, 85-91.	3.9	137
38	Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2008, 53, 1914-1921.	1.0	130
39	Separation of ethanol-water mixtures by liquid-liquid extraction using phosphonium-based ionic liquids. Green Chemistry, 2011, 13, 1517.	4.6	129
40	Evaluation of COSMO-RS for the prediction of LLE and VLE of alcohols+ionic liquids. Fluid Phase Equilibria, 2007, 255, 167-178.	1.4	127
41	Enhanced extraction of caffeine from guaraná seeds using aqueous solutions of ionic liquids. Green Chemistry, 2013, 15, 2002.	4.6	127
42	Electrospun nanosized cellulose fibers using ionic liquids at room temperature. Green Chemistry, 2011, 13, 3173.	4.6	124
43	Tryptophan extraction using hydrophobic ionic liquids. Separation and Purification Technology, 2010, 72, 167-173.	3.9	119
44	Structural and Positional Isomerism Influence in the Physical Properties of Pyridinium NTf ₂ -Based Ionic Liquids: Pure and Water-Saturated Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 4514-4520.	1.0	118
45	Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. Journal of Chemical & Engineering Data, 2016, 61, 2828-2843.	1.0	117
46	¹ 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.	1.2	116
47	Ionic liquids as additives to enhance the extraction of antioxidants in aqueous two-phase systems. Separation and Purification Technology, 2014, 128, 1-10.	3.9	116
48	Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2008, 53, 2378-2382.	1.0	114
49	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. Separation and Purification Technology, 2012, 97, 142-149.	3.9	108
50	The Role of Ionic Liquids in the Pharmaceutical Field: An Overview of Relevant Applications. International Journal of Molecular Sciences, 2020, 21, 8298.	1.8	108
51	Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. Fluid Phase Equilibria, 2017, 448, 15-21.	1.4	105
52	Extraction of tetracycline from fermentation broth using aqueous two-phase systems composed of polyethylene glycol and cholinium-based salts. Process Biochemistry, 2013, 48, 716-722.	1.8	101
53	Characterization of aqueous biphasic systems composed of ionic liquids and a citrate-based biodegradable salt. Biochemical Engineering Journal, 2012, 67, 68-76.	1.8	99
54	Hydrogen-bond acidity of ionic liquids: an extended scale. Physical Chemistry Chemical Physics, 2015, 17, 18980-18990.	1.3	99

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55	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. <i>Molecules</i> , 2020, 25, 3652.	1.7	99
56	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.	1.0	96
57	Novel Biocompatible and Self-buffering Ionic Liquids for Biopharmaceutical Applications. <i>Chemistry - A European Journal</i> , 2015, 21, 4781-4788.	1.7	96
58	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.	4.6	94
59	Thermophysical properties of sulfonium- and ammonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 381, 36-45.	1.4	94
60	Aqueous two-phase systems based on acetonitrile and carbohydrates and their application to the extraction of vanillin. <i>Separation and Purification Technology</i> , 2013, 104, 106-113.	3.9	92
61	Surface tension and refractive index of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 372-379.	1.0	92
62	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.	1.8	92
63	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.	1.2	91
64	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.	1.3	90
65	Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. <i>Green Chemistry</i> , 2014, 16, 259-268.	4.6	89
66	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.	1.2	85
67	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.	1.3	83
68	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.	4.6	83
69	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.	3.9	82
70	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.	1.8	82
71	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.	1.0	81
72	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.	1.2	80

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73	Solubility of non-aromatic ionic liquids in water and correlation using a QSPR approach. <i>Fluid Phase Equilibria</i> , 2010, 294, 234-240.	1.4	78
74	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31653-31661.	1.3	77
75	Thermophysical Properties and Water Saturation of [PF ₆]-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5065-5073.	1.0	75
76	Cation Alkyl Side Chain Length and Symmetry Effects on the Surface Tension of Ionic Liquids. <i>Langmuir</i> , 2014, 30, 6408-6418.	1.6	75
77	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.	1.9	75
78	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. <i>ChemSusChem</i> , 2018, 11, 753-762.	3.6	75
79	Aqueous two-phase systems: Towards novel and more disruptive applications. <i>Fluid Phase Equilibria</i> , 2020, 505, 112341.	1.4	75
80	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.	1.2	74
81	Suitability of bio-based ionic liquids for the extraction and purification of IgG antibodies. <i>Green Chemistry</i> , 2016, 18, 6071-6081.	4.6	74
82	Improved recovery of ionic liquids from contaminated aqueous streams using aluminium-based salts. <i>RSC Advances</i> , 2012, 2, 10882.	1.7	73
83	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.	3.9	73
84	Thermoreversible (Ionic-Liquid-Based) Aqueous Biphasic Systems. <i>Scientific Reports</i> , 2016, 6, 20276.	1.6	72
85	Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. <i>Green Chemistry</i> , 2011, 13, 2464.	4.6	71
86	On the Interactions between Amino Acids and Ionic Liquids in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13971-13979.	1.2	68
87	Thermophysical properties of phosphonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2015, 400, 103-113.	1.4	67
88	Densities, viscosities and derived thermophysical properties of water-saturated imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2016, 407, 188-196.	1.4	67
89	Extraction and stability of bovine serum albumin (BSA) using cholinium-based Good's buffers ionic liquids. <i>Process Biochemistry</i> , 2015, 50, 1158-1166.	1.8	65
90	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.	1.9	65

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91	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.	1.0	64
92	The effect of the cation alkyl chain branching on mutual solubilities with water and toxicities. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19952.	1.3	64
93	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.	1.0	62
94	Surface Tension of Liquid Fluorocompounds. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1820-1824.	1.0	61
95	Ionic-liquid-based aqueous biphasic systems for improved detection of bisphenol A in human fluids. <i>Analytical Methods</i> , 2012, 4, 2664.	1.3	61
96	Increased significance of food wastes: Selective recovery of added-value compounds. <i>Food Chemistry</i> , 2012, 135, 2453-2461.	4.2	59
97	Mutual solubilities between water and non-aromatic sulfonium-, ammonium- and phosphonium-hydrophobic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4569-4577.	1.3	58
98	Ionic liquids for thiols desulfurization: Experimental liquid-liquid equilibrium and COSMO-RS description. <i>Fuel</i> , 2014, 128, 314-329.	3.4	57
99	Impact of Self-Aggregation on the Formation of Ionic-Liquid-Based Aqueous Biphasic Systems. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7660-7668.	1.2	54
100	Aqueous Solutions of Surface-Active Ionic Liquids: Remarkable Alternative Solvents To Improve the Solubility of Triterpenic Acids and Their Extraction from Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7344-7351.	3.2	54
101	Novel aqueous two-phase systems composed of acetonitrile and polyols: Phase diagrams and extractive performance. <i>Separation and Purification Technology</i> , 2014, 124, 54-60.	3.9	53
102	Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. <i>Green Chemistry</i> , 2016, 18, 4582-4604.	4.6	52
103	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.	1.3	51
104	Aqueous biphasic systems composed of ionic liquids and sodium carbonate as enhanced routes for the extraction of tetracycline. <i>Biotechnology Progress</i> , 2013, 29, 645-654.	1.3	50
105	Removal of Nonsteroidal Anti-Inflammatory Drugs from Aqueous Environments with Reusable Ionic-Liquid-Based Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2428-2436.	3.2	50
106	Alkaloids as Alternative Probes To Characterize the Relative Hydrophobicity of Aqueous Biphasic Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1512-1520.	3.2	48
107	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.	4.6	47
108	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.	4.6	46

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109	Insights into coacervative and dispersive liquid-phase microextraction strategies with hydrophilic media – A review. <i>Analytica Chimica Acta</i> , 2021, 1143, 225-249.	2.6	45
110	Extraction and Recovery of Rutin from Acerola Waste using Alcohol-Salt-Based Aqueous Two-Phase Systems. <i>Separation Science and Technology</i> , 2014, 49, 656-663.	1.3	43
111	Effective separation of aromatic and aliphatic amino acid mixtures using ionic-liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , 2017, 19, 1850-1854.	4.6	43
112	Enhancing the adsorption of ionic liquids onto activated carbon by the addition of inorganic salts. <i>Chemical Engineering Journal</i> , 2014, 252, 305-310.	6.6	42
113	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.	2.3	42
114	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, 2219-2225.	1.0	41
115	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.	1.8	40
116	Supported ionic liquids as efficient materials to remove non-steroidal anti-inflammatory drugs from aqueous media. <i>Chemical Engineering Journal</i> , 2020, 381, 122616.	6.6	40
117	Performance of tetraalkylammonium-based ionic liquids as constituents of aqueous biphasic systems in the extraction of ovalbumin and lysozyme. <i>Separation and Purification Technology</i> , 2020, 233, 116019.	3.9	39
118	Enhanced performance of polymer-polymer aqueous two-phase systems using ionic liquids as adjuvants towards the purification of recombinant proteins. <i>Separation and Purification Technology</i> , 2020, 248, 117051.	3.9	39
119	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. <i>Langmuir</i> , 2016, 32, 6130-6139.	1.6	38
120	Enhanced tunability afforded by aqueous biphasic systems formed by fluorinated ionic liquids and carbohydrates. <i>Green Chemistry</i> , 2016, 18, 1070-1079.	4.6	37
121	Valorization of olive tree leaves: Extraction of oleanolic acid using aqueous solutions of surface-active ionic liquids. <i>Separation and Purification Technology</i> , 2018, 204, 30-37.	3.9	37
122	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.	1.0	36
123	Aqueous two-phase systems formed by biocompatible and biodegradable polysaccharides and acetonitrile. <i>Separation and Purification Technology</i> , 2014, 136, 74-80.	3.9	35
124	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.	3.9	35
125	The effect of n vs. iso isomerization on the thermophysical properties of aromatic and non-aromatic ionic liquids. <i>Fluid Phase Equilibria</i> , 2016, 423, 190-202.	1.4	34
126	Pioneering Use of Ionic Liquid-Based Aqueous Biphasic Systems as Membrane-Free Batteries. <i>Advanced Science</i> , 2018, 5, 1800576.	5.6	34

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127	Partition Coefficients of Alkaloids in Biphasic Ionic-Liquid-Aqueous Systems and their Dependence on the Hofmeister Series. <i>Separation Science and Technology</i> , 2012, 47, 284-291.	1.3	33
128	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.	4.6	33
129	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.	1.6	32
130	Switchable (pH-driven) aqueous biphasic systems formed by ionic liquids as integrated production-separation platforms. <i>Green Chemistry</i> , 2017, 19, 2768-2773.	4.6	31
131	Sustainable strategies based on glycine-betaine analogue ionic liquids for the recovery of monoclonal antibodies from cell culture supernatants. <i>Green Chemistry</i> , 2019, 21, 5671-5682.	4.6	31
132	The impact of ionic liquid fluorinated moieties on their thermophysical properties and aqueous phase behaviour. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21340-21348.	1.3	30
133	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.	1.4	30
134	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.	4.6	30
135	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.	2.2	28
136	Improved monitoring of aqueous samples by the preconcentration of active pharmaceutical ingredients using ionic-liquid-based systems. <i>Green Chemistry</i> , 2017, 19, 4651-4659.	4.6	28
137	Critical aspects of membrane-free aqueous battery based on two immiscible neutral electrolytes. <i>Energy Storage Materials</i> , 2020, 26, 400-407.	9.5	28
138	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.	1.3	27
139	Simultaneous extraction and concentration of water pollution tracers using ionic-liquid-based systems. <i>Journal of Chromatography A</i> , 2018, 1559, 69-77.	1.8	27
140	Enhanced Activity of Immobilized Lipase by Phosphonium-Based Ionic Liquids Used in the Support Preparation and Immobilization Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15648-15659.	3.2	26
141	Improved extraction of fluoroquinolones with recyclable ionic-liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , 2016, 18, 2717-2725.	4.6	25
142	Washing-out ionic liquids from polyethylene glycol to form aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2271.	1.3	24
143	Surface tensions of ionic liquids: Non-regular trend along the number of cyano groups. <i>Fluid Phase Equilibria</i> , 2016, 409, 458-465.	1.4	24
144	Cholinium-Based Good™s Buffers Ionic Liquids as Remarkable Stabilizers and Recyclable Preservation Media for Recombinant Small RNAs. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16645-16656.	3.2	24

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145	Ionic Liquids in Drug Delivery. Encyclopedia, 2021, 1, 324-339.	2.4	24
146	Solubility of Adamantane in Phosphonium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2010, 55, 662-665.	1.0	23
147	Solubility of non-aromatic hexafluorophosphate-based salts and ionic liquids in water determined by electrical conductivity. Fluid Phase Equilibria, 2013, 358, 50-55.	1.4	22
148	Effect of Polyvalent Ions in the Formation of Ionic-Liquid-Based Aqueous Biphasic Systems. Journal of Physical Chemistry B, 2014, 118, 297-308.	1.2	22
149	Good TM s buffers as novel phase-forming components of ionic-liquid-based aqueous biphasic systems. Biochemical Engineering Journal, 2015, 101, 142-149.	1.8	22
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