

# Mara G Freire

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218  
papers

14,573  
citations

69  
h-index

116  
g-index

232  
ext. papers

16,139  
ext. citations

6  
avg, IF

6.7  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 218 | Aqueous biphasic systems: a boost brought about by using ionic liquids. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4966-95  | 58.5 | 610       |
| 217 | Ionic-Liquid-Mediated Extraction and Separation Processes for Bioactive Compounds: Past, Present, and Future Trends. <i>Chemical Reviews</i> , <b>2017</b> , 117, 6984-7052                                      | 68.1 | 492       |
| 216 | Hydrolysis of tetrafluoroborate and hexafluorophosphate counter ions in imidazolium-based ionic liquids. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 3744-9                                      | 2.8  | 475       |
| 215 | Surface tensions of imidazolium based ionic liquids: anion, cation, temperature and water effect. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 314, 621-30                                    | 9.3  | 369       |
| 214 | High-Pressure Densities and Derived Thermodynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 80-88                                     | 2.8  | 357       |
| 213 | Mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 13082-9  | 3.4  | 347       |
| 212 | Surface tension of ionic liquids and ionic liquid solutions. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 829-68  | 58.5 | 318       |
| 211 | Ionic liquid solutions as extractive solvents for value-added compounds from biomass. <i>Green Chemistry</i> , <b>2014</b> , 16, 4786-4815   | 10   | 289       |
| 210 | Mutual solubilities of water and the [C(n)mim][Tf(2)N] hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 1604-10  | 3.4  | 289       |
| 209 | An overview of the mutual solubilities of water/imidazolium-based ionic liquids systems. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 261, 449-454  | 2.5  | 265       |
| 208 | Evaluation of anion influence on the formation and extraction capacity of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 9304-10                       | 3.4  | 264       |
| 207 | ρ Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 1881-1888   | 2.8  | 257       |
| 206 | Thermophysical Characterization of Ionic Liquids Able To Dissolve Biomass. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 4813-4822   | 2.8  | 254       |
| 205 | Evaluation of cation influence on the formation and extraction capability of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 5194-9                     | 3.4  | 221       |
| 204 | Densities and Derived Thermodynamic Properties of Imidazolium-, Pyridinium-, Pyrrolidinium-, and Piperidinium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 805-811 | 2.8  | 216       |
| 203 | Evaluation of cation-anion interaction strength in ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 4033-41  | 3.4  | 197       |
| 202 | High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , <b>2010</b> , 12, 1715   | 10   | 194       |

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| 201 | Extended scale for the hydrogen-bond basicity of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 6593-601   | 3.6 | 189 |
| 200 | Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 1346-1350   | 2.8 | 186 |
| 199 | Ion specific effects on the mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 202-11  | 3.4 | 168 |
| 198 | Extraction of biomolecules using phosphonium-based ionic liquids + K(3)PO(4) aqueous biphasic systems. <i>International Journal of Molecular Sciences</i> , <b>2010</b> , 11, 1777-91   | 6.3 | 165 |
| 197 | Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , <b>2010</b> , 75, 39-47  | 8.3 | 163 |
| 196 | Aqueous biphasic systems composed of a water-stable ionic liquid + carbohydrates and their applications. <i>Green Chemistry</i> , <b>2011</b> , 13, 1536  | 10  | 162 |
| 195 | Role of the Hofmeister series in the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7252-8   | 3.4 | 161 |
| 194 | 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> , <b>2012</b> , 51, 3483-3507          | 3.9 | 157 |
| 193 | Ionic liquids as adjuvants for the tailored extraction of biomolecules in aqueous biphasic systems. <i>Green Chemistry</i> , <b>2010</b> , 12, 1661   | 10  | 154 |
| 192 | Systematic study of the thermophysical properties of imidazolium-based ionic liquids with cyano-functionalized anions. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10271-83   | 3.4 | 153 |
| 191 | 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> , <b>2012</b> , 18, 1831-9                                 | 4.8 | 144 |
| 190 | Thermophysical properties of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2011</b> , 43, 948-957  | 2.9 | 140 |
| 189 | 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 &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 5279-5294 | 3.9 | 139 |
| 188 | Complete removal of textile dyes from aqueous media using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , <b>2014</b> , 128, 58-66  | 8.3 | 127 |
| 187 | Evaluation of COSMO-RS for the prediction of LLE and VLE of water and ionic liquids binary systems. <i>Fluid Phase Equilibria</i> , <b>2008</b> , 268, 74-84  | 2.5 | 127 |
| 186 | The magic of aqueous solutions of ionic liquids: ionic liquids as a powerful class of catanionic hydrotropes. <i>Green Chemistry</i> , <b>2015</b> , 17, 3948-3963  | 10  | 126 |
| 185 | Thermophysical Properties of Five Acetate-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 3005-3013  | 2.8 | 126 |
| 184 | Are Aqueous Biphasic Systems Composed of Deep Eutectic Solvents Ternary or Quaternary Systems?. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2881-2886   | 8.3 | 124 |

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| 183 | Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 1914-1921  | 2.8 | 123 |
| 182 | (Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids. <i>Separation and Purification Technology</i> , <b>2010</b> , 72, 85-91  | 8.3 | 122 |
| 181 | Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. <i>RSC Advances</i> , <b>2013</b> , 3, 1835-1843   | 3.7 | 121 |
| 180 | Evaluation of COSMO-RS for the prediction of LLE and VLE of alcohols+ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 255, 167-178   | 2.5 | 118 |
| 179 | Separation of ethanol/water mixtures by liquid-liquid extraction using phosphonium-based ionic liquids. <i>Green Chemistry</i> , <b>2011</b> , 13, 1517  | 10  | 113 |
| 178 | Electrospun nanosized cellulose fibers using ionic liquids at room temperature. <i>Green Chemistry</i> , <b>2011</b> , 13, 3173  | 10  | 111 |
| 177 | Tryptophan extraction using hydrophobic ionic liquids. <i>Separation and Purification Technology</i> , <b>2010</b> , 72, 167-173   | 8.3 | 111 |
| 176 | <sup>1</sup> 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> , <b>2010</b> , 114, 2004-14  | 3.4 | 109 |
| 175 | Ionic liquids as additives to enhance the extraction of antioxidants in aqueous two-phase systems. <i>Separation and Purification Technology</i> , <b>2014</b> , 128, 1-10   | 8.3 | 106 |
| 174 | Enhanced extraction of caffeine from guaran seeds using aqueous solutions of ionic liquids. <i>Green Chemistry</i> , <b>2013</b> , 15, 2002  | 10  | 104 |
| 173 | Structural and Positional Isomerism Influence in the Physical Properties of Pyridinium NTf <sub>2</sub> -Based Ionic Liquids: Pure and Water-Saturated Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 4514-4520 | 2.8 | 104 |
| 172 | Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 2378-2382  | 2.8 | 101 |
| 171 | Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , <b>2012</b> , 97, 142-149   | 8.3 | 98  |
| 170 | Extraction of tetracycline from fermentation broth using aqueous two-phase systems composed of polyethylene glycol and cholinium-based salts. <i>Process Biochemistry</i> , <b>2013</b> , 48, 716-722  | 4.8 | 90  |
| 169 | Ionic Liquid Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Cation Effect. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 4253-4260  | 2.8 | 89  |
| 168 | Novel biocompatible and self-buffering ionic liquids for biopharmaceutical applications. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 4781-8  | 4.8 | 88  |
| 167 | Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2828-2843   | 2.8 | 85  |
| 166 | Characterization of aqueous biphasic systems composed of ionic liquids and a citrate-based biodegradable salt. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 67, 68-76  | 4.2 | 85  |

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| 165 | Good buffers as a basis for developing self-buffering and biocompatible ionic liquids for biological research. <i>Green Chemistry</i> , <b>2014</b> , 16, 3149-3159   | 10  | 84 |
| 164 | Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. <i>Green Chemistry</i> , <b>2014</b> , 16, 259-268  | 10  | 84 |
| 163 | Hydrogen-bond acidity of ionic liquids: an extended scale. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 18980-90  | 3.6 | 82 |
| 162 | Thermophysical properties of sulfonium- and ammonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 381, 36-45  | 2.5 | 80 |
| 161 | Design of ionic liquids for lipase purification. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2011</b> , 879, 2679-87   | 3.2 | 80 |
| 160 | Enhanced extraction of proteins using cholinium-based ionic liquids as phase-forming components of aqueous biphasic systems. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1457-66   | 5.6 | 79 |
| 159 | Aqueous two-phase systems based on acetonitrile and carbohydrates and their application to the extraction of vanillin. <i>Separation and Purification Technology</i> , <b>2013</b> , 104, 106-113   | 8.3 | 79 |
| 158 | Critical assessment of the formation of ionic-liquid-based aqueous two-phase systems in acidic media. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 11145-53  | 3.4 | 79 |
| 157 | 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> , <b>2009</b> , 113, 2815-25                                    | 3.4 | 76 |
| 156 | Combining ionic liquids and polyethylene glycols to boost the hydrophobic-hydrophilic range of aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 19580-3   | 3.6 | 75 |
| 155 | Molecular interactions in aqueous biphasic systems composed of polyethylene glycol and crystalline vs. liquid cholinium-based salts. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5723-31                                   | 3.6 | 74 |
| 154 | Surface tension and refractive index of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 57, 372-379   | 3.9 | 74 |
| 153 | Solubility of non-aromatic ionic liquids in water and correlation using a QSPR approach. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 294, 234-240   | 2.5 | 73 |
| 152 | Aqueous biphasic systems composed of ionic liquids and polymers: A platform for the purification of biomolecules. <i>Separation and Purification Technology</i> , <b>2013</b> , 113, 83-89  | 8.3 | 72 |
| 151 | Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 448, 15-21   | 2.5 | 71 |
| 150 | Thermophysical Properties and Water Saturation of [PF <sub>6</sub> ]-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 5065-5073   | 2.8 | 70 |
| 149 | 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> , <b>2014</b> , 53, 3737-3748 | 3.9 | 69 |
| 148 | Mutual solubility of water and structural/positional isomers of N-alkylpyridinium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 15925-34   | 3.4 | 69 |

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|-----|--|-----|----|
| 147 | Improved recovery of ionic liquids from contaminated aqueous streams using aluminium-based salts. <i>RSC Advances</i> , <b>2012</b> , 2, 10882   | 3.7 | 68 |
| 146 | Evaluation of the impact of phosphate salts on the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 54, 398-405                   | 2.9 | 67 |
| 145 | The impact of self-aggregation on the extraction of biomolecules in ionic-liquid-based aqueous two-phase systems. <i>Separation and Purification Technology</i> , <b>2013</b> , 108, 174-180         | 8.3 | 66 |
| 144 | Cation alkyl side chain length and symmetry effects on the surface tension of ionic liquids. <i>Langmuir</i> , <b>2014</b> , 30, 6408-18   | 4   | 65 |
| 143 | Long-term protein packaging in bio-ionic liquids: Improved catalytic activity and enhanced stability of cytochrome C against multiple stresses. <i>Green Chemistry</i> , <b>2017</b> , 19, 4900-4911 | 10  | 63 |
| 142 | Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. <i>Green Chemistry</i> , <b>2011</b> , 13, 2464                             | 10  | 61 |
| 141 | Ionic-Liquid-Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Anion Effect. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 507-512                         | 2.8 | 60 |
| 140 | Influence of the anion on the surface tension of 1-ethyl-3-methylimidazolium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 54, 49-54                                | 2.9 | 58 |
| 139 | Enhanced extraction of bovine serum albumin with aqueous biphasic systems of phosphonium- and ammonium-based ionic liquids. <i>Journal of Biotechnology</i> , <b>2015</b> , 206, 17-25               | 3.7 | 57 |
| 138 | Extraction and stability of bovine serum albumin (BSA) using cholinium-based Good's buffers ionic liquids. <i>Process Biochemistry</i> , <b>2015</b> , 50, 1158-1166                                 | 4.8 | 56 |
| 137 | The effect of the cation alkyl chain branching on mutual solubilities with water and toxicities. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 19952-63                             | 3.6 | 56 |
| 136 | Ionic-liquid-based aqueous biphasic systems for improved detection of bisphenol A in human fluids. <i>Analytical Methods</i> , <b>2012</b> , 4, 2664   | 3.2 | 55 |
| 135 | Contact angles and wettability of ionic liquids on polar and non-polar surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 31653-31661  | 3.6 | 54 |
| 134 | Densities, Viscosities and Derived Thermophysical Properties of Water-Saturated Imidazolium-Based Ionic Liquids. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 407, 188-196                          | 2.5 | 54 |
| 133 | Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. <i>ChemSusChem</i> , <b>2018</b> , 11, 753-762   | 8.3 | 53 |
| 132 | Suitability of bio-based ionic liquids for the extraction and purification of IgG antibodies. <i>Green Chemistry</i> , <b>2016</b> , 18, 6071-6081   | 10  | 53 |
| 131 | Thermoreversible (Ionic-Liquid-Based) Aqueous Biphasic Systems. <i>Scientific Reports</i> , <b>2016</b> , 6, 20276   | 4.9 | 52 |
| 130 | On the interactions between amino acids and ionic liquids in aqueous media. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 13971-9  | 3.4 | 52 |

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|-----|--|------|----|
| 129 | Surface Tension of Liquid Fluorocompounds. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 1820-1824   | 5.2  | 52 |
| 128 | Increased significance of food wastes: selective recovery of added-value compounds. <i>Food Chemistry</i> , <b>2012</b> , 135, 2453-61   | 8.5  | 51 |
| 127 | Impact of self-aggregation on the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 7660-8   | 3.4  | 51 |
| 126 | Thermophysical properties of phosphonium-based ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2015</b> , 400, 103-113   | 3.5  | 50 |
| 125 | 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> , <b>2016</b> , 236, 166-175   | 3.7  | 49 |
| 124 | Ionic liquids for thiols desulfurization: Experimental liquid-liquid equilibrium and COSMO-RS description. <i>Fuel</i> , <b>2014</b> , 128, 314-329  | 7.1  | 47 |
| 123 | Aqueous biphasic systems composed of ionic liquids and sodium carbonate as enhanced routes for the extraction of tetracycline. <i>Biotechnology Progress</i> , <b>2013</b> , 29, 645-54  | 2.8  | 47 |
| 122 | Mutual solubilities between water and non-aromatic sulfonium-, ammonium- and phosphonium-hydrophobic ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 4569-77   | 3.6  | 45 |
| 121 | Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. <i>Green Chemistry</i> , <b>2016</b> , 18, 4582-4604   | 10   | 42 |
| 120 | One-step extraction and concentration of estrogens for an adequate monitoring of wastewater using ionic-liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , <b>2015</b> , 17, 2570-2579  | 10   | 40 |
| 119 | Aqueous biphasic systems composed of ionic liquids and polypropylene glycol: insights into their liquid-liquid demixing mechanisms. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 20571-20582                                     | 3.6  | 40 |
| 118 | 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> , <b>2017</b> , 5, 7344-7351 | 8.3  | 40 |
| 117 | The Role of Ionic Liquids in the Pharmaceutical Field: An Overview of Relevant Applications. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,  | 6.3  | 39 |
| 116 | Alkaloids as Alternative Probes To Characterize the Relative Hydrophobicity of Aqueous Biphasic Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1512-1520   | 8.3  | 38 |
| 115 | Novel aqueous two-phase systems composed of acetonitrile and polyols: Phase diagrams and extractive performance. <i>Separation and Purification Technology</i> , <b>2014</b> , 124, 54-60  | 8.3  | 38 |
| 114 | Aqueous two-phase systems: Towards novel and more disruptive applications. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 505, 112341   | 2.5  | 38 |
| 113 | Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. <i>Molecules</i> , <b>2020</b> , 25,   | 4.8  | 38 |
| 112 | Enhancing the adsorption of ionic liquids onto activated carbon by the addition of inorganic salts. <i>Chemical Engineering Journal</i> , <b>2014</b> , 252, 305-310   | 14.7 | 37 |

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|-----|--|------|----|
| 111 | Controlling the Formation of Ionic-Liquid-based Aqueous Biphasic Systems by Changing the Hydrogen-Bonding Ability of Polyethylene Glycol End Groups. <i>ChemPhysChem</i> , <b>2015</b> , 16, 2219-25                                     | 3.2  | 36 |
| 110 | Extraction and Recovery of Rutin from Acerola Waste using Alcohol-Salt-Based Aqueous Two-Phase Systems. <i>Separation Science and Technology</i> , <b>2014</b> , 49, 656-663   | 2.5  | 36 |
| 109 | Effective separation of aromatic and aliphatic amino acids mixtures using ionic-liquid-based aqueous biphasic systems. <i>Green Chemistry</i> , <b>2017</b> , 19, 1850-1854  | 10   | 35 |
| 108 | Removal of Non-Steroidal Anti-Inflammatory Drugs from Aqueous Environments with Reusable Ionic-Liquid-based Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2428-2436                                       | 8.3  | 34 |
| 107 | An integrated process for enzymatic catalysis allowing product recovery and enzyme reuse by applying thermoreversible aqueous biphasic systems. <i>Green Chemistry</i> , <b>2018</b> , 20, 1218-1223                                     | 10   | 34 |
| 106 | Aqueous biphasic systems composed of ionic liquids and acetate-based salts: phase diagrams, densities and viscosities. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 1674-1682                                   | 2.8  | 33 |
| 105 | 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> , <b>2015</b> , 210, 264-271  | 6    | 33 |
| 104 | Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. <i>Langmuir</i> , <b>2016</b> , 32, 6130-9   | 4    | 33 |
| 103 | Partition Coefficients of Alkaloids in Biphasic Ionic-Liquid-Aqueous Systems and their Dependence on the Hofmeister Series. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 284-291   | 2.5  | 31 |
| 102 | Enhanced tunability afforded by aqueous biphasic systems formed by fluorinated ionic liquids and carbohydrates. <i>Green Chemistry</i> , <b>2016</b> , 18, 1070-1079   | 10   | 28 |
| 101 | The impact of ionic liquid fluorinated moieties on their thermophysical properties and aqueous phase behaviour. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21340-8   | 3.6  | 28 |
| 100 | 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> , <b>2018</b> , 196, 244-253                      | 8.3  | 27 |
| 99  | 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> , <b>2019</b> , 141, 239-246 | 4.2  | 27 |
| 98  | Supported ionic liquids as efficient materials to remove non-steroidal anti-inflammatory drugs from aqueous media. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122616   | 14.7 | 26 |
| 97  | Aqueous Two-Phase Systems formed by Biocompatible and Biodegradable Polysaccharides and Acetonitrile. <i>Separation and Purification Technology</i> , <b>2014</b> , 136, 74-80   | 8.3  | 25 |
| 96  | Enhanced separation performance of aqueous biphasic systems formed by carbohydrates and tetraalkylphosphonium- or tetraalkylammonium-based ionic liquids. <i>Green Chemistry</i> , <b>2018</b> , 20, 2978-2983 <sup>10</sup>             | 10   | 24 |
| 95  | Enhanced extraction and biological activity of 7-hydroxymatairesinol obtained from Norway spruce knots using aqueous solutions of ionic liquids. <i>Green Chemistry</i> , <b>2017</b> , 19, 2626-2635                                    | 10   | 23 |
| 94  | Valorization of olive tree leaves: Extraction of oleanolic acid using aqueous solutions of surface-active ionic liquids. <i>Separation and Purification Technology</i> , <b>2018</b> , 204, 30-37  | 8.3  | 23 |

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| 93 | Improved Monitoring of Aqueous Samples by the Concentration of Active Pharmaceutical Ingredients using Ionic-Liquid-based Systems. <i>Green Chemistry</i> , <b>2017</b> , 19, 4651-4659                                    | 10  | 23 |
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