

# Catarina M S S Neves

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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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.

47  
papers

3,936  
citations

29  
h-index

47  
g-index

47  
ext. papers

4,290  
ext. citations

4.7  
avg, IF

5.21  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 47 | One-Step All-Aqueous Interfacial Assembly of Robust Membranes for Long-Term Encapsulation and Culture of Adherent Stem/Stromal Cells. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100266                                  | 10.1 | 3         |
| 46 | Critical aspects of membrane-free aqueous battery based on two immiscible neutral electrolytes. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 400-407  | 19.4 | 11        |
| 45 | Simultaneous Separation of Antioxidants and Carbohydrates From Food Wastes Using Aqueous Biphasic Systems Formed by Cholinium-Derived Ionic Liquids. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 459                                | 5    | 8         |
| 44 | Binary Mixtures of Ionic Liquids in Aqueous Solution: Towards an Understanding of their Salting-In/Salting-Out Phenomena. <i>Journal of Solution Chemistry</i> , <b>2019</b> , 48, 983-991   | 1.8  | 5         |
| 43 | 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        |
| 42 | 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> , <b>2018</b> , 93, 1931-1939                | 3.5  | 17        |
| 41 | Potential of Aqueous Two-Phase Systems for the Separation of Levodopa from Similar Biomolecules. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 1940-1947   | 3.5  | 5         |
| 40 | Solid + liquid equilibria and molecular structure studies of binary mixtures for nitrate ester stabilizers: Measurement and modeling. <i>Thermochimica Acta</i> , <b>2018</b> , 666, 197-207   | 2.9  | 29        |
| 39 | Pioneering Use of Ionic Liquid-Based Aqueous Biphasic Systems as Membrane-Free Batteries. <i>Advanced Science</i> , <b>2018</b> , 5, 1800576   | 13.6 | 16        |
| 38 | Sustainable hydrophobic terpene-based eutectic solvents for the extraction and separation of metals. <i>Chemical Communications</i> , <b>2018</b> , 54, 8104-8107  | 5.8  | 74        |
| 37 | Measurement and PC-SAFT modeling of solid-liquid equilibrium of deep eutectic solvents of quaternary ammonium chlorides and carboxylic acids. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 448, 69-80                                   | 2.5  | 66        |
| 36 | Toward an Understanding of the Mechanisms behind the Formation of Liquid-liquid Systems formed by Two Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 3015-3019   | 6.4  | 17        |
| 35 | 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        |
| 34 | 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        |
| 33 | Effect of the Methylation and N-H Acidic Group on the Physicochemical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 8781-92   | 3.4  | 16        |
| 32 | 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        |
| 31 | Effect of salts on the solubility of ionic liquids in water: experimental and electrolyte Perturbed-Chain Statistical Associating Fluid Theory. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 32044-32052               | 2.6  | 18        |

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| 30 | Analysis of the isomerism effect on the mutual solubilities of bis(trifluoromethylsulfonyl)imide-based ionic liquids with water. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 381, 28-35   | 2.5  | 11  |
| 29 | 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  |
| 28 | 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  |
| 27 | Characterization of systems of thiophene and benzene with ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 192, 26-31   | 6    | 22  |
| 26 | 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  |
| 25 | Impact of the cation symmetry on the mutual solubilities between water and imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 375, 161-167                      | 2.5  | 22  |
| 24 | Alkylimidazolium based ionic liquids: impact of cation symmetry on their nanoscale structural organization. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10889-97            | 3.4  | 168 |
| 23 | 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 |
| 22 | Solubility of non-aromatic hexafluorophosphate-based salts and ionic liquids in water determined by electrical conductivity. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 358, 50-55       | 2.5  | 20  |
| 21 | Composition and structural effects on the adsorption of ionic liquids onto activated carbon. <i>Environmental Sciences: Processes and Impacts</i> , <b>2013</b> , 15, 1752-9                | 4.3  | 28  |
| 20 | 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  |
| 19 | 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  |
| 18 | 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  |
| 17 | The origin of the LCST on the liquid-liquid equilibrium of thiophene with ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 5985-92                                | 3.4  | 15  |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | Chameleonic behavior of ionic liquids and its impact on the estimation of solubility parameters. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 12879-88                       | 3.4  | 38  |

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|----|--|-----|-----|
| 12 | 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 |
| 11 | <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 |
| 10 | 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 |
| 9  | High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , <b>2010</b> , 12, 1715   | 10  | 194 |
| 8  | 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  |
| 7  | 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> , <b>2010</b> , 11, 1777-91 | 6.3 | 165 |
| 6  | 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  |
| 5  | Surface Tensions of Bis(trifluoromethylsulfonyl)imide Anion-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 3807-3812   | 2.8 | 78  |
| 4  | 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  |
| 3  | 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 |
| 2  | 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 |
| 1  | Mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 13082-9  | 3.4 | 347 |