

# Catarina M S S Neves

## List of Publications by Citations

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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	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
46	Mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 13082-9	3.4	347
45	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
44	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
43	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
42	High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , <b>2010</b> , 12, 1715	10	194
41	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
40	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
39	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
38	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
37	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
36	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
35	<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
34	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
33	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
32	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
31	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

30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	Solid + liquid equilibria and molecular structure studies of binary mixtures for nitrate ester $\beta$ stabilizers: Measurement and modeling. <i>Thermochimica Acta</i> , <b>2018</b> , 666, 197-207	2.9	29
18	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
17	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
16	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
15	Characterization of systems of thiophene and benzene with ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 192, 26-31	6	22
14	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
13	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

12	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	3.6	18
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	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