

# Ana B Pereiro

## List of Publications by Year in Descending Order

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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.

96  
papers

3,842  
citations

35  
h-index

59  
g-index

100  
ext. papers

4,256  
ext. citations

4.3  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
96	Impact of Fluorinated Ionic Liquids on Human Phenylalanine Hydroxylase-A Potential Drug Delivery System.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	2
95	Understanding the phase and solvation behavior of fluorinated ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 359, 119285	6	1
94	The impact of fluorinated ionic liquids aggregation in the interactions with proteins. <i>Fluid Phase Equilibria</i> , <b>2022</b> , 559, 113488	2.5	1
93	Synthesis and Characterization of Fluorinated Phosphonium Ionic Liquids to Use as New Engineering Solvents. <i>ChemEngineering</i> , <b>2022</b> , 6, 38	2.6	
92	Disclosing the Potential of Fluorinated Ionic Liquids as Interferon-Alpha 2b Delivery Systems. <i>Nanomaterials</i> , <b>2022</b> , 12, 1851	5.4	
91	Ecotoxicity and Hemolytic Activity of Fluorinated Ionic Liquids. <i>Sustainable Chemistry</i> , <b>2021</b> , 2, 115-126	3.6	2
90	Unveiling the Influence of Non-Toxic Fluorinated Ionic Liquids Aqueous Solutions in the Encapsulation and Stability of Lysozyme. <i>Sustainable Chemistry</i> , <b>2021</b> , 2, 149-166	3.6	3
89	Waste Management Strategies to Mitigate the Effects of Fluorinated Greenhouse Gases on Climate Change. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4367	2.6	5
88	Insights into the interaction of Bovine Serum Albumin with Surface-Active Ionic Liquids in aqueous solution. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 322, 114537	6	19
87	Integration of Stable Ionic Liquid-Based Nanofluids into Polymer Membranes. Part II: Gas Separation Properties toward Fluorinated Greenhouse Gases. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
86	Integration of Stable Ionic Liquid-Based Nanofluids into Polymer Membranes. Part I: Membrane Synthesis and Characterization. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
85	Recent advances in ionic liquids and nanotechnology for drug delivery. <i>Nanomedicine</i> , <b>2021</b> , 16, 63-80	5.6	10
84	Absorption of Fluorinated Greenhouse Gases in Deep Eutectic Solvents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 13246-13259	3.9	10
83	Adsorption of fluorinated greenhouse gases on activated carbons: evaluation of their potential for gas separation. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2020</b> , 95, 1892-1905	3.5	15
82	Functionalization of fluorinated ionic liquids: A combined experimental-theoretical study. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 302, 112489	6	6
81	Insight on the Solubility of R134a in Fluorinated Ionic Liquids and Deep Eutectic Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 4956-4969	2.8	11
80	Screening of Ionic Liquids and Deep Eutectic Solvents for Physical CO <sub>2</sub> Absorption by Soft-SAFT Using Key Performance Indicators. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 5844-5861	2.8	24

79	Tailor-Made Fluorinated Ionic Liquids for Protein Delivery. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
78	Process Evaluation of Fluorinated Ionic Liquids as F-Gas Absorbents. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12784-12794	10.3	11
77	Separation of azeotropic mixtures using protic ionic liquids as extraction solvents. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 297, 111733	6	8
76	Physicochemical Characterization of Ionic Liquid Binary Mixtures Containing 1-Butyl-3-methylimidazolium as the Common Cation. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4891-4903	2.8	12
75	Anomalous and Not-So-Common Behavior in Common Ionic Liquids and Ionic Liquid-Containing Systems. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 450	5	17
74	Aggregation and phase equilibria of fluorinated ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 285, 386-396	6	14
73	Insights into the influence of the molecular structures of fluorinated ionic liquids on their thermophysical properties. A soft-SAFT based approach. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6362-6380	3.6	21
72	Absorption of Fluorinated Greenhouse Gases Using Fluorinated Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 20769-20778	3.9	25
71	Systematic study of the influence of the molecular structure of fluorinated ionic liquids on the solubilization of atmospheric gases using a soft-SAFT based approach. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 294, 111645	6	14
70	Graphene Ionanofluids, Thermal and Structural Characterization. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	12
69	Dielectric properties and kinetic analysis of nonisothermal decomposition of ionic liquids derived from organic acid. <i>Thermochimica Acta</i> , <b>2019</b> , 672, 43-52	2.9	5
68	Acute Aquatic Toxicity and Biodegradability of Fluorinated Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3733-3741	8.3	39
67	Human cytotoxicity and octanol/water partition coefficients of fluorinated ionic liquids. <i>Chemosphere</i> , <b>2019</b> , 216, 576-586	8.4	40
66	Tailoring Nanofluid Thermophysical Profile through Graphene Nanoplatelets Surface Functionalization. <i>ACS Omega</i> , <b>2018</b> , 3, 744-752	3.9	11
65	Design of task-specific fluorinated ionic liquids: nanosegregation versus hydrogen-bonding ability in aqueous solutions. <i>Chemical Communications</i> , <b>2018</b> , 54, 3524-3527	5.8	12
64	Influence of Nanosegregation on the Phase Behavior of Fluorinated Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 5415-5427	3.8	35
63	Fluorinated ionic liquids for protein drug delivery systems: Investigating their impact on the structure and function of lysozyme. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 526, 309-320	6.5	41
62	Thermophysical Characterization of Ionic Liquids Based on the Perfluorobutanesulfonate Anion: Experimental and Soft-SAFT Modeling Results. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2012-2023	3.2	17

61	CHAPTER 4:Surfactant Fluorinated Ionic Liquids. <i>RSC Smart Materials</i> , <b>2017</b> , 79-102	0.6	4
60	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
59	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. <i>Langmuir</i> , <b>2016</b> , 32, 6130-9	4	33
58	Protonic Ammonium Nitrate Ionic Liquids and Their Mixtures: Insights into Their Thermophysical Behavior. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 2397-406	3.4	31
57	Fluorination effects on the thermodynamic, thermophysical and surface properties of ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 97, 354-361	2.9	35
56	Designing high ionicity ionic liquids based on 1-ethyl-3-methylimidazolium ethyl sulphate for effective azeotrope breaking. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 419, 57-66	2.5	9
55	Solid-liquid equilibria of binary mixtures of fluorinated ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 25741-50	3.6	21
54	A thermophysical and structural characterization of ionic liquids with alkyl and perfluoroalkyl side chains. <i>RSC Advances</i> , <b>2015</b> , 5, 65337-65350	3.7	55
53	Phase equilibria and surfactant behavior of fluorinated ionic liquids with water. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 82, 99-107	2.9	22
52	Separation of azeotropic mixtures using high ionicity ionic liquids based on 1-ethyl-3-methylimidazolium thiocyanate. <i>Fluid Phase Equilibria</i> , <b>2015</b> , 389, 48-54	2.5	31
51	Aggregation behavior and total miscibility of fluorinated ionic liquids in water. <i>Langmuir</i> , <b>2015</b> , 31, 1283-25	4.9	49
50	Cholinium-based ionic liquids with pharmaceutically active anions. <i>RSC Advances</i> , <b>2014</b> , 4, 28126-28132	3.7	71
49	High ionicity ionic liquids (HIILs): comparing the effect of ethylsulfonate and ethylsulfate anions. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 18138-47	3.6	19
48	On the formation of a third, nanostructured domain in ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10826-33	3.4	84
47	(Liquid+liquid) equilibria of perfluorocarbons with fluorinated ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 64, 71-79	2.9	17
46	Gas Permeation Properties of Fluorinated Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 4994-5001	3.9	50
45	Fluorinated Ionic Liquids: Properties and Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 427-439	8.3	122
44	Deep eutectic solvents as extraction media for azeotropic mixtures. <i>Green Chemistry</i> , <b>2013</b> , 15, 1326	10	109

43	Hydrogen-bonding and the dissolution mechanism of uracil in an acetate ionic liquid: new insights from NMR spectroscopy and quantum chemical calculations. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 4109-20	3.4	26
42	Nucleic acid bases in 1-alkyl-3-methylimidazolium acetate ionic liquids: A thermophysical and ionic conductivity analysis. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 57, 1-8	2.9	59
41	Ionic liquids in separations of azeotropic systems [A review]. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 46, 2-28	2.9	359
40	Inorganic salts in purely ionic liquid media: the development of High Ionicity Ionic Liquids (HILs). <i>Chemical Communications</i> , <b>2012</b> , 48, 3656-8	5.8	82
39	Solubility of inorganic salts in pure ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 55, 29-36	2.9	62
38	On the Use of Ionic Liquids to Separate Aromatic Hydrocarbons from a Model Soil. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 377-385	2.5	3
37	Mixtures of Pyridine and Nicotine with Pyridinium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 4356-4363	2.8	11
36	Ionic liquid-based aqueous biphasic system for lipase extraction. <i>Green Chemistry</i> , <b>2011</b> , 13, 390-396	10	111
35	Impact of ionic liquids on extreme microbial biotypes from soil. <i>Green Chemistry</i> , <b>2011</b> , 13, 687	10	52
34	New insight into phase equilibria involving imidazolium bistriflamide ionic liquids and their mixtures with alcohols and water. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 8978-85	3.4	14
33	Phase equilibria of haloalkanes dissolved in ethylsulfate- or ethylsulfonate-based ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 7329-37	3.4	23
32	Rationalizing the diverse solid-liquid equilibria of binary mixtures of benzene and its fluorinated derivatives. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 12589-96	3.4	3
31	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 291, 13-17	2.5	35
30	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 294, 49-53	2.5	33
29	An ionic liquid proposed as solvent in aromatic hydrocarbon separation by liquid extraction. <i>AIChE Journal</i> , <b>2009</b> , 56, NA-NA	3.6	15
28	Effective extraction in packed column of ethanol from the azeotropic mixture ethanol + hexane with an ionic liquid as solvent. <i>Chemical Engineering Journal</i> , <b>2009</b> , 153, 80-85	14.7	41
27	Application of the ionic liquid Ammoeng 102 for aromatic/aliphatic hydrocarbon separation. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 951-956	2.9	65
26	Effect of temperature on the physical properties of two ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 1419-1423	2.9	96

25	Separation of Ethanol/Heptane Azeotropic Mixtures by Solvent Extraction with an Ionic Liquid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 1579-1585	3.9	62
24	Purification of hexane with effective extraction using ionic liquid as solvent. <i>Green Chemistry</i> , <b>2009</b> , 11, 346	10	45
23	Phase Equilibria of the Azeotropic Mixture Hexane + Ethyl Acetate with Ionic Liquids at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 1360-1366	2.8	41
22	Binary mixtures containing OMIM PF6: density, speed of sound, refractive index and LLE with hexane, heptane and 2-propanol at several temperatures. <i>Physics and Chemistry of Liquids</i> , <b>2008</b> , 46, 162-174	1.5	28
21	A study on the liquid-liquid equilibria of 1-alkyl-3-methylimidazolium hexafluorophosphate with ethanol and alkanes. <i>Fluid Phase Equilibria</i> , <b>2008</b> , 270, 23-29	2.5	60
20	Measurement and correlation of (liquid + liquid) equilibrium of the azeotrope (cyclohexane + 2-butanone) with different ionic liquids at T = 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>2008</b> , 40, 1282-1289	2.9	40
19	Azeotrope-breaking using [BMIM] [MeSO <sub>4</sub> ] ionic liquid in an extraction column. <i>Separation and Purification Technology</i> , <b>2008</b> , 62, 733-738	8.3	69
18	Physical Properties of 1-Butyl-3-methylimidazolium Methyl Sulfate as a Function of Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 377-380	2.8	156
17	Experimental Liquid-Liquid Equilibria of 1-Alkyl-3-methylimidazolium Hexafluorophosphate with 1-Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 1408-1412	2.8	26
16	Liquid-Liquid equilibria of 1,3-dimethylimidazolium methyl sulfate with ketones, dialkyl carbonates and acetates. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 254, 150-157	2.5	28
15	Physical properties of ionic liquids based on 1-alkyl-3-methylimidazolium cation and hexafluorophosphate as anion and temperature dependence. <i>Journal of Chemical Thermodynamics</i> , <b>2007</b> , 39, 1168-1175	2.9	197
14	Mixing properties of binary mixtures presenting azeotropes at several temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2007</b> , 39, 1219-1230	2.9	28
13	Ternary (liquid + liquid) equilibria of the azeotrope (ethyl acetate + 2-propanol) with different ionic liquids at T = 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>2007</b> , 39, 1608-1613	2.9	54
12	Study on the phase behaviour and thermodynamic properties of ionic liquids containing imidazolium cation with ethanol at several temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2007</b> , 39, 978-989	2.9	95
11	Ternary Liquid-Liquid Equilibria Ethanol + 2-Butanone + 1-Butyl-3-methylimidazolium Hexafluorophosphate, 2-Propanol + 2-Butanone + 1-Butyl-3-methylimidazolium Hexafluorophosphate, and 2-Butanone + 2-Propanol + 1,3-Dimethylimidazolium Methyl Sulfate at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 2138-2142	2.8	34
10	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 600-608	2.8	97
9	Properties of ionic liquid HMIMPF <sub>6</sub> with carbonates, ketones and alkyl acetates. <i>Journal of Chemical Thermodynamics</i> , <b>2006</b> , 38, 651-661	2.9	115
8	Temperature Dependence of Physical Properties of Ionic Liquid 1,3-Dimethylimidazolium Methyl Sulfate. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 952-954	2.8	109

7	HMIImPF6 ionic liquid that separates the azeotropic mixture ethanol + heptane. <i>Green Chemistry</i> , <b>2006</b> , 8, 307	10	89
6	Dynamic viscosities of the ternary liquid mixtures (dimethyl carbonate + methanol + ethanol) and (dimethyl carbonate + methanol + hexane) at several temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2006</b> , 38, 505-519	2.9	23
5	Measurement of the Isobaric Vapor-Liquid Equilibria of Dimethyl Carbonate with Acetone, 2-Butanone, and 2-Pentanone at 101.3 kPa and Density and Speed of Sound at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2005</b> , 50, 481-486	2.8	12
4	VLE of the binary systems (dimethyl carbonate with 2-propanol or 2-butanol) and (diethyl carbonate with methylcyclohexane) at 101.3 kPa. <i>Journal of Chemical Thermodynamics</i> , <b>2005</b> , 37, 249-257 <sup>2.9</sup>	2.9	17
3	Vapor-Liquid equilibria for systems of diethyl carbonate and ketones and determination of group interaction parameters for the UNIFAC and ASOG methods. <i>Fluid Phase Equilibria</i> , <b>2005</b> , 235, 83-91	2.5	11
2	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2004</b> , 49, 1392-1399 <sup>2.8</sup>	2.8	62
1	Fluorinated Ionic Liquids as Task-Specific Materials: An Overview of Current Research		2