

Ana B Pereiro

List of Publications by Year in descending order

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98
papers

4,608
citations

87723

38
h-index

110170

64
g-index

100
all docs

100
docs citations

100
times ranked

2990
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquids in separations of azeotropic systems – A review. <i>Journal of Chemical Thermodynamics</i> , 2012, 46, 2-28.	1.0	410
2	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> , 2007, 39, 1168-1175.	1.0	219
3	Physical Properties of 1-Butyl-3-methylimidazolium Methyl Sulfate as a Function of Temperature. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 377-380.	1.0	168
4	Fluorinated Ionic Liquids: Properties and Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 427-439.	3.2	147
5	Deep eutectic solvents as extraction media for azeotropic mixtures. <i>Green Chemistry</i> , 2013, 15, 1326.	4.6	141
6	Properties of ionic liquid HMIMPF ₆ with carbonates, ketones and alkyl acetates. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 651-661.	1.0	124
7	Ionic liquid-based aqueous biphasic system for lipase extraction. <i>Green Chemistry</i> , 2011, 13, 390-396.	4.6	120
8	Temperature Dependence of Physical Properties of Ionic Liquid 1,3-Dimethylimidazolium Methyl Sulfate. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 952-954.	1.0	116
9	Effect of temperature on the physical properties of two ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 1419-1423.	1.0	111
10	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> , 2007, 39, 978-989.	1.0	110
11	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 600-608.	1.0	108
12	On the Formation of a Third, Nanostructured Domain in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10826-10833.	1.2	99
13	Cholinium-based ionic liquids with pharmaceutically active anions. <i>RSC Advances</i> , 2014, 4, 28126-28132.	1.7	93
14	HMImPF ₆ ionic liquid that separates the azeotropic mixture ethanol + heptane. <i>Green Chemistry</i> , 2006, 8, 307.	4.6	92
15	Inorganic salts in purely ionic liquid media: the development of high ionicity ionic liquids (HILs). <i>Chemical Communications</i> , 2012, 48, 3656.	2.2	91
16	Azeotrope-breaking using [BMIM] [MeSO ₄] ionic liquid in an extraction column. <i>Separation and Purification Technology</i> , 2008, 62, 733-738.	3.9	75
17	Separation of Ethanol~Heptane Azeotropic Mixtures by Solvent Extraction with an Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1579-1585.	1.8	73
18	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1392-1399.	1.0	70

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19	Solubility of inorganic salts in pure ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2012, 55, 29-36.	1.0	70
20	Application of the ionic liquid Ammoeng 102 for aromatic/aliphatic hydrocarbon separation. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 951-956.	1.0	69
21	Nucleic acid bases in 1-alkyl-3-methylimidazolium acetate ionic liquids: A thermophysical and ionic conductivity analysis. <i>Journal of Chemical Thermodynamics</i> , 2013, 57, 1-8.	1.0	67
22	A study on the liquid-liquid equilibria of 1-alkyl-3-methylimidazolium hexafluorophosphate with ethanol and alkanes. <i>Fluid Phase Equilibria</i> , 2008, 270, 23-29.	1.4	65
23	A thermophysical and structural characterization of ionic liquids with alkyl and perfluoroalkyl side chains. <i>RSC Advances</i> , 2015, 5, 65337-65350.	1.7	63
24	Ternary (liquid+liquid) equilibria of the azeotrope (ethyl acetate+2-propanol) with different ionic liquids at T=298.15K. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1608-1613.	1.0	58
25	Acute Aquatic Toxicity and Biodegradability of Fluorinated Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3733-3741.	3.2	57
26	Absorption of Fluorinated Greenhouse Gases Using Fluorinated Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20769-20778.	1.8	55
27	Impact of ionic liquids on extreme microbial biotypes from soil. <i>Green Chemistry</i> , 2011, 13, 687.	4.6	54
28	Gas Permeation Properties of Fluorinated Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4994-5001.	1.8	54
29	Aggregation Behavior and Total Miscibility of Fluorinated Ionic Liquids in Water. <i>Langmuir</i> , 2015, 31, 1283-1295.	1.6	54
30	Human cytotoxicity and octanol/water partition coefficients of fluorinated ionic liquids. <i>Chemosphere</i> , 2019, 216, 576-586.	4.2	53
31	Purification of hexane with effective extraction using ionic liquid as solvent. <i>Green Chemistry</i> , 2009, 11, 346.	4.6	49
32	Fluorinated ionic liquids for protein drug delivery systems: Investigating their impact on the structure and function of lysozyme. <i>International Journal of Pharmaceutics</i> , 2017, 526, 309-320.	2.6	49
33	Phase Equilibria of the Azeotropic Mixture Hexane + Ethyl Acetate with Ionic Liquids at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1360-1366.	1.0	47
34	Influence of Nanosegregation on the Phase Behavior of Fluorinated Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5415-5427.	1.5	46
35	Measurement and correlation of (liquid+liquid) equilibrium of the azeotrope (cyclohexane+2-butanone) with different ionic liquids at T=298.15K. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1282-1289.	1.0	44
36	Effective extraction in packed column of ethanol from the azeotropic mixture ethanol+hexane with an ionic liquid as solvent. <i>Chemical Engineering Journal</i> , 2009, 153, 80-85.	6.6	42

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37	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 & Engineering Data</i> , 2007, 52, 2138-2142.	1.0	40
38	Screening of Ionic Liquids and Deep Eutectic Solvents for Physical CO ₂ Absorption by Soft-SAFT Using Key Performance Indicators. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 5844-5861.	1.0	40
39	Protonic Ammonium Nitrate Ionic Liquids and Their Mixtures: Insights into Their Thermophysical Behavior. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2397-2406.	1.2	39
40	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. <i>Langmuir</i> , 2016, 32, 6130-6139.	1.6	38
41	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , 2010, 294, 49-53.	1.4	37
42	Fluorination effects on the thermodynamic, thermophysical and surface properties of ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 354-361.	1.0	37
43	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
44	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , 2010, 291, 13-17.	1.4	36
45	An ionic liquid proposed as solvent in aromatic hydrocarbon separation by liquid extraction. <i>AIChE Journal</i> , 2010, 56, 381-386.	1.8	35
46	Separation of azeotropic mixtures using high ionicity ionic liquids based on 1-ethyl-3-methylimidazolium thiocyanate. <i>Fluid Phase Equilibria</i> , 2015, 389, 48-54.	1.4	34
47	Adsorption of fluorinated greenhouse gases on activated carbons: evaluation of their potential for gas separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1892-1905.	1.6	34
48	Liquid-liquid equilibria of 1,3-dimethylimidazolium methyl sulfate with ketones, dialkyl carbonates and acetates. <i>Fluid Phase Equilibria</i> , 2007, 254, 150-157.	1.4	32
49	Binary mixtures containing OMIM PF ₆ : density, speed of sound, refractive index and LLE with hexane, heptane and 2-propanol at several temperatures. <i>Physics and Chemistry of Liquids</i> , 2008, 46, 162-174.	0.4	32
50	Insights into the interaction of Bovine Serum Albumin with Surface-Active Ionic Liquids in aqueous solution. <i>Journal of Molecular Liquids</i> , 2021, 322, 114537.	2.3	30
51	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> , 2006, 38, 505-519.	1.0	29
52	Experimental Liquid-Liquid Equilibria of 1-Alkyl-3-methylimidazolium Hexafluorophosphate with 1-Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1408-1412.	1.0	29
53	Mixing properties of binary mixtures presenting azeotropes at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1219-1230.	1.0	29
54	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> , 2019, 21, 6362-6380.	1.3	28

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55	Process Evaluation of Fluorinated Ionic Liquids as F-Gas Absorbents. <i>Environmental Science & Technology</i> , 2020, 54, 12784-12794.	4.6	28
56	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> , 2013, 117, 4109-4120.	1.2	27
57	Phase Equilibria of Haloalkanes Dissolved in Ethylsulfate- or Ethylsulfonate-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7329-7337.	1.2	24
58	Anomalous and Not-So-Common Behavior in Common Ionic Liquids and Ionic Liquid-Containing Systems. <i>Frontiers in Chemistry</i> , 2019, 7, 450.	1.8	24
59	Recent advances in ionic liquids and nanotechnology for drug delivery. <i>Nanomedicine</i> , 2021, 16, 63-80.	1.7	24
60	Phase equilibria and surfactant behavior of fluorinated ionic liquids with water. <i>Journal of Chemical Thermodynamics</i> , 2015, 82, 99-107.	1.0	23
61	Solid-liquid equilibria of binary mixtures of fluorinated ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25741-25750.	1.3	23
62	Thermophysical Characterization of Ionic Liquids Based on the Perfluorobutanesulfonate Anion: Experimental and Soft-SAFT Modeling Results. <i>ChemPhysChem</i> , 2017, 18, 2012-2023.	1.0	23
63	Absorption of Fluorinated Greenhouse Gases in Deep Eutectic Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13246-13259.	1.8	23
64	Design of Ionic Liquids for Fluorinated Gas Absorption: COSMO-RS Selection and Solubility Experiments. <i>Environmental Science & Technology</i> , 2022, 56, 5898-5909.	4.6	23
65	Aggregation and phase equilibria of fluorinated ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 285, 386-396.	2.3	22
66	Waste Management Strategies to Mitigate the Effects of Fluorinated Greenhouse Gases on Climate Change. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4367.	1.3	21
67	VLE of the binary systems (dimethyl carbonate with 2-propanol or 2-butanol) and (diethyl carbonate) T_j ETQq1 1 0.784314 $rg_{BT} / Over_{20}$	1.0	20
68	High ionicity ionic liquids (HILLs): comparing the effect of ethylsulfonate and ethylsulfate anions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18138.	1.3	20
69	(Liquid+liquid) equilibria of perfluorocarbons with fluorinated ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 64, 71-79.	1.0	19
70	Insight on the Solubility of R134a in Fluorinated Ionic Liquids and Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4956-4969.	1.0	19
71	Integration of Stable Ionic Liquid-Based Nanofluids into Polymer Membranes. Part II: Gas Separation Properties toward Fluorinated Greenhouse Gases. <i>Nanomaterials</i> , 2021, 11, 582.	1.9	18
72	Design of task-specific fluorinated ionic liquids: nanosegregation versus hydrogen-bonding ability in aqueous solutions. <i>Chemical Communications</i> , 2018, 54, 3524-3527.	2.2	17

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73	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> , 2019, 294, 111645.	2.3	17
74	Physicochemical Characterization of Ionic Liquid Binary Mixtures Containing 1-Butyl-3-methylimidazolium as the Common Cation. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 4891-4903.	1.0	17
75	Graphene Ionanofluids, Thermal and Structural Characterization. <i>Nanomaterials</i> , 2019, 9, 1549.	1.9	16
76	New Insight into Phase Equilibria Involving Imidazolium Bistriflamide Ionic Liquids and Their Mixtures with Alcohols and Water. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8978-8985.	1.2	15
77	Functionalization of fluorinated ionic liquids: A combined experimental-theoretical study. <i>Journal of Molecular Liquids</i> , 2020, 302, 112489.	2.3	15
78	Mixtures of Pyridine and Nicotine with Pyridinium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4356-4363.	1.0	13
79	Tailor-Made Fluorinated Ionic Liquids for Protein Delivery. <i>Nanomaterials</i> , 2020, 10, 1594.	1.9	13
80	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 & Engineering Data</i> , 2005, 50, 481-486.	1.0	12
81	Tailoring Nanofluid Thermophysical Profile through Graphene Nanoplatelets Surface Functionalization. <i>ACS Omega</i> , 2018, 3, 744-752.	1.6	12
82	Separation of azeotropic mixtures using protic ionic liquids as extraction solvents. <i>Journal of Molecular Liquids</i> , 2020, 297, 111733.	2.3	12
83	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> , 2005, 235, 83-91.	1.4	11
84	Integration of Stable Ionic Liquid-Based Nanofluids into Polymer Membranes. Part I: Membrane Synthesis and Characterization. <i>Nanomaterials</i> , 2021, 11, 607.	1.9	10
85	Designing high ionicity ionic liquids based on 1-ethyl-3-methylimidazolium ethyl sulphate for effective azeotrope breaking. <i>Fluid Phase Equilibria</i> , 2016, 419, 57-66.	1.4	9
86	Dielectric properties and kinetic analysis of nonisothermal decomposition of ionic liquids derived from organic acid. <i>Thermochimica Acta</i> , 2019, 672, 43-52.	1.2	8
87	Understanding the phase and solvation behavior of fluorinated ionic liquids. <i>Journal of Molecular Liquids</i> , 2022, 359, 119285.	2.3	8
88	On the Use of Ionic Liquids to Separate Aromatic Hydrocarbons from a Model Soil. <i>Separation Science and Technology</i> , 2012, 47, 377-385.	1.3	6
89	Unveiling the Influence of Non-Toxic Fluorinated Ionic Liquids Aqueous Solutions in the Encapsulation and Stability of Lysozyme. <i>Sustainable Chemistry</i> , 2021, 2, 149-166.	2.2	6
90	Surfactant Fluorinated Ionic Liquids. <i>RSC Smart Materials</i> , 2017, , 79-102.	0.1	6

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91	Fluorinated Ionic Liquids as Task-Specific Materials: An Overview of Current Research. , 0, , .		5
92	Ecotoxicity and Hemolytic Activity of Fluorinated Ionic Liquids. Sustainable Chemistry, 2021, 2, 115-126.	2.2	5
93	Impact of Fluorinated Ionic Liquids on Human Phenylalanine Hydroxylase—A Potential Drug Delivery System. Nanomaterials, 2022, 12, 893.	1.9	5
94	Rationalizing the Diverse Solid–Liquid Equilibria of Binary Mixtures of Benzene and Its Fluorinated Derivatives. Journal of Physical Chemistry B, 2010, 114, 12589-12596.	1.2	3
95	The impact of fluorinated ionic liquids aggregation in the interactions with proteins. Fluid Phase Equilibria, 2022, 559, 113488.	1.4	3
96	Understanding the Absorption of Fluorinated Gases in Fluorinated Ionic Liquids for Recovering Purposes Using Soft-SAFT. Journal of Chemical & Engineering Data, 2022, 67, 1951-1963.	1.0	2
97	Disclosing the Potential of Fluorinated Ionic Liquids as Interferon-Alpha 2b Delivery Systems. Nanomaterials, 2022, 12, 1851.	1.9	1
98	Synthesis and Characterization of Fluorinated Phosphonium Ionic Liquids to Use as New Engineering Solvents. ChemEngineering, 2022, 6, 38.	1.0	0