Mara Freire

List of Publications by Citations

290 papers	16,281 citations	71 h-index	117 g-index
316 ext. papers	18,263 ext. citations	6.1 avg, IF	6.87 L-index

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

273	Extended scale for the hydrogen-bond basicity of ionic liquids. *Physical Chemistry Chemical Physics*, **2014**, 16, 6593-601	3.6	189
272	Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. *Journal of Chemical & Engineering Data*, **2008**, 53, 1346-1350	2.8	186
271	Alkylimidazolium based ionic liquids: impact of cation symmetry on their nanoscale structural organization. *Journal of Physical Chemistry B*, **2013**, 117, 10889-97	3.4	168
270	Ion specific effects on the mutual solubilities of water and hydrophobic ionic liquids. *Journal of Physical Chemistry B*, **2009**, 113, 202-11	3.4	168
269	Extraction of biomolecules using phosphonium-based ionic liquids + K(3)PO(4) aqueous biphasic systems. *International Journal of Molecular Sciences*, **2010**, 11, 1777-91	6.3	165
268	Extraction of vanillin using ionic-liquid-based aqueous two-phase systems. *Separation and Purification Technology*, **2010**, 75, 39-47	8.3	163
267	Aqueous biphasic systems composed of a water-stable ionic liquid + carbohydrates and their applications. *Green Chemistry*, **2011**, 13, 1536	10	162
266	Role of the Hofmeister series in the formation of ionic-liquid-based aqueous biphasic systems. *Journal of Physical Chemistry B*, **2012**, 116, 7252-8	3.4	161
265	Overview of the Liquid–Liquid Equilibria of Ternary Systems Composed of Ionic Liquid and Aromatic and Aliphatic Hydrocarbons, and Their Modeling by COSMO-RS. *Industrial & Engineering Chemistry Research*, **2012**, 51, 3483-3507	3.9	157
264	Ionic liquids as adjuvants for the tailored extraction of biomolecules in aqueous biphasic systems. *Green Chemistry*, **2010**, 12, 1661	10	154
263	Systematic study of the thermophysical properties of imidazolium-based ionic liquids with cyano-functionalized anions. *Journal of Physical Chemistry B*, **2013**, 117, 10271-83	3.4	153
262	Insight into the interactions that control the phase behaviour of new aqueous biphasic systems composed of polyethylene glycol polymers and ionic liquids. *Chemistry - A European Journal*, **2012**, 18, 1831-9	4.8	144
261	Thermophysical properties of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. *Journal of Chemical Thermodynamics*, **2011**, 43, 948-957	2.9	140
260	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. *Industrial & Engineering Chemistry Research*, **2011**, 50, 5279-5294	3.9	139
259	Complete removal of textile dyes from aqueous media using ionic-liquid-based aqueous two-phase systems. *Separation and Purification Technology*, **2014**, 128, 58-66	8.3	127
258	Evaluation of COSMO-RS for the prediction of LLE and VLE of water and ionic liquids binary systems. *Fluid Phase Equilibria*, **2008**, 268, 74-84	2.5	127
257	The magic of aqueous solutions of ionic liquids: ionic liquids as a powerful class of catanionic hydrotropes. *Green Chemistry*, **2015**, 17, 3948-3963	10	126
256	Thermophysical Properties of Five Acetate-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2012**, 57, 3005-3013	2.8	126

255	Are Aqueous Biphasic Systems Composed of Deep Eutectic Solvents Ternary or Quaternary Systems?. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2881-2886	8.3	124
254	Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2008**, 53, 1914-1921	2.8	123
253	(Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids. *Separation and Purification Technology*, **2010**, 72, 85-91	8.3	122
252	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. *RSC Advances*, **2013**, 3, 1835-1843	3.7	121
251	Evaluation of COSMO-RS for the prediction of LLE and VLE of alcohols+ionic liquids. *Fluid Phase Equilibria*, **2007**, 255, 167-178	2.5	118
250	Separation of ethanol□water mixtures by liquid□quid extraction using phosphonium-based ionic liquids. *Green Chemistry*, **2011**, 13, 1517	10	113
249	Electrospun nanosized cellulose fibers using ionic liquids at room temperature. *Green Chemistry*, **2011**, 13, 3173	10	111
248	Tryptophan extraction using hydrophobic ionic liquids. *Separation and Purification Technology*, **2010** , 72, 167-173	8.3	111
247	1H NMR and molecular dynamics evidence for an unexpected interaction on the origin of salting-in/salting-out phenomena. *Journal of Physical Chemistry B*, **2010**, 114, 2004-14	3.4	109
246	Ionic liquids as additives to enhance the extraction of antioxidants in aqueous two-phase systems. *Separation and Purification Technology*, **2014**, 128, 1-10	8.3	106
245	Enhanced extraction of caffeine from guaran□seeds using aqueous solutions of ionic liquids. *Green Chemistry*, **2013**, 15, 2002	10	104
244	Structural and Positional Isomerism Influence in the Physical Properties of Pyridinium NTf2-Based Ionic Liquids: Pure and Water-Saturated Mixtures□*Journal of Chemical & Engineering Data*, **2010**, 55, 4514-4520	2.8	104
243	Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2008**, 53, 2378-2382	2.8	101
242	Optimization of the gallic acid extraction using ionic-liquid-based aqueous two-phase systems. *Separation and Purification Technology*, **2012**, 97, 142-149	8.3	98
241	Extraction of tetracycline from fermentation broth using aqueous two-phase systems composed of polyethylene glycol and cholinium-based salts. *Process Biochemistry*, **2013**, 48, 716-722	4.8	90
240	Ionic Liquid Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Cation Effect. *Journal of Chemical & Engineering Data*, **2011**, 56, 4253-4260	2.8	89
239	Novel biocompatible and self-buffering ionic liquids for biopharmaceutical applications. *Chemistry - A European Journal*, **2015**, 21, 4781-8	4.8	88
238	Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. *Journal of Chemical & Engineering Data*, **2016**, 61, 2828-2843	2.8	85

237	Characterization of aqueous biphasic systems composed of ionic liquids and a citrate-based biodegradable salt. *Biochemical Engineering Journal*, **2012**, 67, 68-76	4.2	85
236	Good's buffers as a basis for developing self-buffering and biocompatible ionic liquids for biological research. *Green Chemistry*, **2014**, 16, 3149-3159	10	84
235	Development of back-extraction and recyclability routes for ionic-liquid-based aqueous two-phase systems. *Green Chemistry*, **2014**, 16, 259-268	10	84
234	Hydrogen-bond acidity of ionic liquids: an extended scale. *Physical Chemistry Chemical Physics*, **2015**, 17, 18980-90	3.6	82
233	Enhanced biocatalytic sustainability of laccase by immobilization on functionalized carbon nanotubes/polysulfone membranes. *Chemical Engineering Journal*, **2019**, 355, 974-985	14.7	82
232	Thermophysical properties of sulfonium- and ammonium-based ionic liquids. *Fluid Phase Equilibria*, **2014**, 381, 36-45	2.5	80
231	Design of ionic liquids for lipase purification. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2011**, 879, 2679-87	3.2	80
230	Enhanced extraction of proteins using cholinium-based ionic liquids as phase-forming components of aqueous biphasic systems. *Biotechnology Journal*, **2015**, 10, 1457-66	5.6	79
229	Aqueous two-phase systems based on acetonitrile and carbohydrates and their application to the extraction of vanillin. *Separation and Purification Technology*, **2013**, 104, 106-113	8.3	79
228	Critical assessment of the formation of ionic-liquid-based aqueous two-phase systems in acidic media. *Journal of Physical Chemistry B*, **2011**, 115, 11145-53	3.4	79
227	Towards an understanding of the mutual solubilities of water and hydrophobic ionic liquids in the presence of salts: the anion effect. *Journal of Physical Chemistry B*, **2009**, 113, 2815-25	3.4	76
226	Combining ionic liquids and polyethylene glycols to boost the hydrophobic-hydrophilic range of aqueous biphasic systems. *Physical Chemistry Chemical Physics*, **2013**, 15, 19580-3	3.6	75
225	Solubility of oxygen in liquid perfluorocarbons. *Fluid Phase Equilibria*, **2004**, 222-223, 325-330	2.5	75
224	Molecular interactions in aqueous biphasic systems composed of polyethylene glycol and crystalline vs. liquid cholinium-based salts. *Physical Chemistry Chemical Physics*, **2014**, 16, 5723-31	3.6	74
223	Surface tension and refractive index of pure and water-saturated tetradecyltrihexylphosphonium-based ionic liquids. *Journal of Chemical Thermodynamics*, **2013**, 57, 372-379	2.9	74
222	Solubility of non-aromatic ionic liquids in water and correlation using a QSPR approach. *Fluid Phase Equilibria*, **2010**, 294, 234-240	2.5	73
221	Aqueous biphasic systems composed of ionic liquids and polymers: A platform for the purification of biomolecules. *Separation and Purification Technology*, **2013**, 113, 83-89	8.3	72
220	Solvatochromic parameters of deep eutectic solvents formed by ammonium-based salts and carboxylic acids. *Fluid Phase Equilibria*, **2017**, 448, 15-21	2.5	71

219	Thermophysical Properties and Water Saturation of [PF6]-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2010**, 55, 5065-5073	2.8	70
218	Vapor−Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. *Industrial & Engineering Chemistry Research*, **2014**, 53, 3737-3748	3.9	69
217	Mutual solubility of water and structural/positional isomers of N-alkylpyridinium-based ionic liquids. *Journal of Physical Chemistry B*, **2010**, 114, 15925-34	3.4	69
216	Improved recovery of ionic liquids from contaminated aqueous streams using aluminium-based salts. *RSC Advances*, **2012**, 2, 10882	3.7	68
215	Evaluation of the impact of phosphate salts on the formation of ionic-liquid-based aqueous biphasic systems. *Journal of Chemical Thermodynamics*, **2012**, 54, 398-405	2.9	67
214	The impact of self-aggregation on the extraction of biomolecules in ionic-liquid-based aqueous two-phase systems. *Separation and Purification Technology*, **2013**, 108, 174-180	8.3	66
213	Cation alkyl side chain length and symmetry effects on the surface tension of ionic liquids. *Langmuir*, **2014**, 30, 6408-18	4	65
212	Long-term protein packaging in bio-ionic liquids: Improved catalytic activity and enhanced stability of cytochrome C against multiple stresses. *Green Chemistry*, **2017**, 19, 4900-4911	10	63
211	Aging mechanisms of perfluorocarbon emulsions using image analysis. *Journal of Colloid and Interface Science*, **2005**, 286, 224-32	9.3	62
210	Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. *Green Chemistry*, **2011**, 13, 2464	10	61
209	Ionic-Liquid-Based Aqueous Biphasic Systems with Controlled pH: The Ionic Liquid Anion Effect. *Journal of Chemical & Engineering Data*, **2012**, 57, 507-512	2.8	60
208	Influence of the anion on the surface tension of 1-ethyl-3-methylimidazolium-based ionic liquids. *Journal of Chemical Thermodynamics*, **2012**, 54, 49-54	2.9	58
207	Enhanced extraction of bovine serum albumin with aqueous biphasic systems of phosphonium- and ammonium-based ionic liquids. *Journal of Biotechnology*, **2015**, 206, 17-25	3.7	57
206	Optimization of oxygen mass transfer in a multiphase bioreactor with perfluorodecalin as a second liquid phase. *Biotechnology and Bioengineering*, **2008**, 99, 588-98	4.9	57
205	Extraction and stability of bovine serum albumin (BSA) using cholinium-based Good's buffers ionic liquids. *Process Biochemistry*, **2015**, 50, 1158-1166	4.8	56
204	The effect of the cation alkyl chain branching on mutual solubilities with water and toxicities. *Physical Chemistry Chemical Physics*, **2014**, 16, 19952-63	3.6	56
203	Ionic-liquid-based aqueous biphasic systems for improved detection of bisphenol A in human fluids. *Analytical Methods*, **2012**, 4, 2664	3.2	55
202	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. *Physical Chemistry Chemical Physics*, **2015**, 17, 31653-31661	3.6	54

201	Densities, Viscosities and Derived Thermophysical Properties of Water-Saturated Imidazolium-Based Ionic Liquids. *Fluid Phase Equilibria*, **2016**, 407, 188-196	2.5	54
200	Surface tension of binary mixtures of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids: experimental measurements and soft-SAFT modeling. *Journal of Physical Chemistry B*, **2012**, 116, 12133-41	3.4	54
199	Deep Eutectic Solvent Aqueous Solutions as Efficient Media for the Solubilization of Hardwood Xylans. *ChemSusChem*, **2018**, 11, 753-762	8.3	53
198	Suitability of bio-based ionic liquids for the extraction and purification of IgG antibodies. *Green Chemistry*, **2016**, 18, 6071-6081	10	53
197	Thermoreversible (Ionic-Liquid-Based) Aqueous Biphasic Systems. *Scientific Reports*, **2016**, 6, 20276	4.9	52
196	On the interactions between amino acids and ionic liquids in aqueous media. *Journal of Physical Chemistry B*, **2009**, 113, 13971-9	3.4	52
195	Surface Tension of Liquid Fluorocompounds. *Journal of Chemical & Engineering Data*, **2006**, 51, 1820-1824	2.8	52
194	Increased significance of food wastes: selective recovery of added-value compounds. *Food Chemistry*, **2012**, 135, 2453-61	8.5	51
193	Impact of self-aggregation on the formation of ionic-liquid-based aqueous biphasic systems. *Journal of Physical Chemistry B*, **2012**, 116, 7660-8	3.4	51
192	Thermophysical properties of phosphonium-based ionic liquids. *Fluid Phase Equilibria*, **2015**, 400, 103-113	2.5	50
191	Laccase Activation in Deep Eutectic Solvents. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11806-11814	8.3	49
190	Improving the extraction and purification of immunoglobulin G by the use of ionic liquids as adjuvants in aqueous biphasic systems. *Journal of Biotechnology*, **2016**, 236, 166-175	3.7	49
189	Ionic liquids for thiols desulfurization: Experimental liquid–liquid equilibrium and COSMO-RS description. *Fuel*, **2014**, 128, 314-329	7.1	47
188	Aqueous biphasic systems composed of ionic liquids and sodium carbonate as enhanced routes for the extraction of tetracycline. *Biotechnology Progress*, **2013**, 29, 645-54	2.8	47
187	Deep eutectic solvents comprising active pharmaceutical ingredients in the development of drug delivery systems. *Expert Opinion on Drug Delivery*, **2019**, 16, 497-506	8	45
186	Mutual solubilities between water and non-aromatic sulfonium-, ammonium- and phosphonium-hydrophobic ionic liquids. *Physical Chemistry Chemical Physics*, **2015**, 17, 4569-77	3.6	45
185	Surface tensions of binary mixtures of ionic liquids with bis(trifluoromethylsulfonyl)imide as the common anion. *Journal of Chemical Thermodynamics*, **2013**, 64, 22-27	2.9	43
184	Ionic liquids in chromatographic and electrophoretic techniques: toward additional improvements in the separation of natural compounds. *Green Chemistry*, **2016**, 18, 4582-4604	10	42

183	Anti-inflammatory and antioxidant nanostructured cellulose membranes loaded with phenolic-based ionic liquids for cutaneous application. *Carbohydrate Polymers*, **2019**, 206, 187-197	10.3	41
182	One-step extraction and concentration of estrogens for an adequate monitoring of wastewater using ionic-liquid-based aqueous biphasic systems. *Green Chemistry*, **2015**, 17, 2570-2579	10	40
181	Aqueous biphasic systems composed of ionic liquids and polypropylene glycol: insights into their liquid-liquid demixing mechanisms. *Physical Chemistry Chemical Physics*, **2016**, 18, 20571-20582	3.6	40
180	Aqueous solutions of surface-active ionic liquids: remarkable alternative solvents to improve the solubility of triterpenic acids and their extraction from biomass. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7344-7351	8.3	40
179	The Role of Ionic Liquids in the Pharmaceutical Field: An Overview of Relevant Applications. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	39
178	Enhanced Conversion of Xylan into Furfural using Acidic Deep Eutectic Solvents with Dual Solvent and Catalyst Behavior. *ChemSusChem*, **2020**, 13, 784-790	8.3	39
177	Alkaloids as Alternative Probes To Characterize the Relative Hydrophobicity of Aqueous Biphasic Systems. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1512-1520	8.3	38
176	Novel aqueous two-phase systems composed of acetonitrile and polyols: Phase diagrams and extractive performance. *Separation and Purification Technology*, **2014**, 124, 54-60	8.3	38
175	Density and Viscosity Data for Binary Mixtures of 1-Alkyl-3-methylimidazolium Alkylsulfates + Water. *Journal of Chemical & Engineering Data*, **2012**, 57, 3473-3482	2.8	38
174	Aqueous two-phase systems: Towards novel and more disruptive applications. *Fluid Phase Equilibria* , **2020**, 505, 112341	2.5	38
173	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. *Molecules*, **2020**, 25,	4.8	38
172	Enhancing the adsorption of ionic liquids onto activated carbon by the addition of inorganic salts. *Chemical Engineering Journal*, **2014**, 252, 305-310	14.7	37
171	Controlling the Formation of Ionic-Liquid-based Aqueous Biphasic Systems by Changing the Hydrogen-Bonding Ability of Polyethylene Glycol End Groups. *ChemPhysChem*, **2015**, 16, 2219-25	3.2	36
170	Enhancing the antioxidant characteristics of phenolic acids by their conversion into cholinium salts. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2558-2565	8.3	36
169	Stimuli responsive ion gels based on polysaccharides and other polymers prepared using ionic liquids and deep eutectic solvents. *Carbohydrate Polymers*, **2018**, 180, 328-336	10.3	36
168	Extraction and Recovery of Rutin from Acerola Waste using Alcohol-Salt-Based Aqueous Two-Phase Systems. *Separation Science and Technology*, **2014**, 49, 656-663	2.5	36
167	Cloud point extraction of chlorophylls from spinach leaves using aqueous solutions of non-ionic surfactants. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 590-599	8.3	36
166	Effective separation of aromatic and aliphatic amino acids mixtures using ionic-liquid-based aqueous biphasic systems. *Green Chemistry*, **2017**, 19, 1850-1854	10	35

165	Fluorination effects on the thermodynamic, thermophysical and surface properties of ionic liquids. *Journal of Chemical Thermodynamics*, **2016**, 97, 354-361	2.9	35
164	Removal of Non-Steroidal Anti-Inflammatory Drugs from Aqueous Environments with Reusable Ionic-Liquid-based Systems. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2428-2436	8.3	34
163	An integrated process for enzymatic catalysis allowing product recovery and enzyme reuse by applying thermoreversible aqueous biphasic systems. *Green Chemistry*, **2018**, 20, 1218-1223	10	34
162	Generating Ionic Liquids from Ionic Solids: An Investigation of the Melting Behavior of Binary Mixtures of Ionic Liquids. *Crystal Growth and Design*, **2014**, 14, 4270-4277	3.5	34
161	Growth and Chemical Stability of Copper Nanostructures on Cellulosic Fibers. *European Journal of Inorganic Chemistry*, **2012**, 2012, 5043-5049	2.3	34
160	Solubility of water in fluorocarbons: Experimental and COSMO-RS prediction results. *Journal of Chemical Thermodynamics*, **2010**, 42, 213-219	2.9	34
159	Aqueous biphasic systems composed of ionic liquids and acetate-based salts: phase diagrams, densities and viscosities. *Journal of Chemical & Engineering Data*, **2015**, 60, 1674-1682	2.8	33
158	Comprehensive Study on the Impact of the Cation Alkyl Side Chain Length on the Solubility of Water in Ionic Liquids. *Journal of Molecular Liquids*, **2015**, 210, 264-271	6	33
157	Influence of Nanosegregation on the Surface Tension of Fluorinated Ionic Liquids. *Langmuir*, **2016**, 32, 6130-9	4	33
156	Design of Nonsteroidal Anti-Inflammatory Drug-Based Ionic Liquids with Improved Water Solubility and Drug Delivery. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14126-14134	8.3	32
155	Structural insights into the effect of cholinium-based ionic liquids on the critical micellization temperature of aqueous triblock copolymers. *Physical Chemistry Chemical Physics*, **2016**, 18, 8342-51	3.6	31
154	Partition Coefficients of Alkaloids in Biphasic Ionic-Liquid-Aqueous Systems and their Dependence on the Hofmeister Series. *Separation Science and Technology*, **2012**, 47, 284-291	2.5	31
153	Water solubility in linear fluoroalkanes used in blood substitute formulations. *Journal of Physical Chemistry B*, **2006**, 110, 22923-9	3.4	31
152	Recovery of carotenoids from brown seaweeds using aqueous solutions of surface-active ionic liquids and anionic surfactants. *Separation and Purification Technology*, **2018**, 196, 300-308	8.3	30
151	Polyvinylidene fluoride-Hyaluronic acid wound dressing comprised of ionic liquids for controlled drug delivery and dual therapeutic behavior. *Acta Biomaterialia*, **2019**, 100, 142-157	10.8	30
150	Single-step extraction of carotenoids from brown macroalgae using non-ionic surfactants. *Separation and Purification Technology*, **2017**, 172, 268-276	8.3	30
149	Enhanced tunability afforded by aqueous biphasic systems formed by fluorinated ionic liquids and carbohydrates. *Green Chemistry*, **2016**, 18, 1070-1079	10	28
148	The impact of ionic liquid fluorinated moieties on their thermophysical properties and aqueous phase behaviour. *Physical Chemistry Chemical Physics*, **2014**, 16, 21340-8	3.6	28

147	Composition and structural effects on the adsorption of ionic liquids onto activated carbon. *Environmental Sciences: Processes and Impacts*, **2013**, 15, 1752-9	4.3	28
146	Evaluation of the effect of ionic liquids as adjuvants in polymer-based aqueous biphasic systems using biomolecules as molecular probes. *Separation and Purification Technology*, **2018**, 196, 244-253	8.3	27
145	Single-Step Purification of Ovalbumin from Egg White Using Aqueous Biphasic Systems. *Process Biochemistry*, **2016**, 51, 781-791	4.8	27
144	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. *Biochemical Engineering Journal*, **2019**, 141, 239-246	4.2	27
143	Bacterial nanocellulose membranes loaded with vitamin B-based ionic liquids for dermal care applications. *Journal of Molecular Liquids*, **2020**, 302, 112547	6	26
142	Viscosities of Liquid Fluorocompounds. *Journal of Chemical & Engineering Data*, **2008**, 53, 538-542	2.8	26
141	Supported ionic liquids as efficient materials to remove non-steroidal anti-inflammatory drugs from aqueous media. *Chemical Engineering Journal*, **2020**, 381, 122616	14.7	26
140	Aqueous Two-Phase Systems formed by Biocompatible and Biodegradable Polysaccharides and Acetonitrile. *Separation and Purification Technology*, **2014**, 136, 74-80	8.3	25
139	Deep Eutectic Solvents as Efficient Media for the Extraction and Recovery of Cynaropicrin from Cynara cardunculus L. Leaves. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	24
138	Solubility of Hexafluorobenzene in Aqueous Salt Solutions from (280 to 340) K. *Journal of Chemical & Engineering Data*, **2005**, 50, 237-242	2.8	24
137	Improvements in the enzymatic degradation of textile dyes using ionic-liquid-based surfactants. *Separation and Purification Technology*, **2020**, 235, 116191	8.3	24
136	Enhanced separation performance of aqueous biphasic systems formed by carbohydrates and tetraalkylphosphonium- or tetraalkylammonium-based ionic liquids. *Green Chemistry*, **2018**, 20, 2978-2983	10	24
135	Enhanced extraction and biological activity of 7-hydroxymatairesinol obtained from Norway spruce knots using aqueous solutions of ionic liquids. *Green Chemistry*, **2017**, 19, 2626-2635	10	23
134	Valorization of olive tree leaves: Extraction of oleanolic acid using aqueous solutions of surface-active ionic liquids. *Separation and Purification Technology*, **2018**, 204, 30-37	8.3	23
133	Improved Monitoring of Aqueous Samples by the Concentration of Active Pharmaceutical Ingredients using Ionic-Liquid-based Systems. *Green Chemistry*, **2017**, 19, 4651-4659	10	23
132	Switchable (pH-Driven) Aqueous Biphasic Systems formed by Ionic Liquids as Integrated Production-Separation Platforms. *Green Chemistry*, **2017**, 19, 2768-2773	10	22
131	Improved extraction of fluoroquinolones with recyclable ionic-liquid-based aqueous biphasic systems. *Green Chemistry*, **2016**, 18, 2717-2725	10	22
130	Surface Tensions of Ionic Liquids: Non-Regular Trend Along the Number of Cyano Groups. *Fluid Phase Equilibria*, **2016**, 409, 458-465	2.5	22

129	Impact of the cation symmetry on the mutual solubilities between water and imidazolium-based ionic liquids. *Fluid Phase Equilibria*, **2014**, 375, 161-167	2.5	22
128	The Effect of vs. Isomerization on the Thermophysical Properties of Aromatic and Non-aromatic Ionic Liquids. *Fluid Phase Equilibria*, **2016**, 423, 190-202	2.5	22
127	Effect of polyvalent ions in the formation of ionic-liquid-based aqueous biphasic systems. *Journal of Physical Chemistry B*, **2014**, 118, 297-308	3.4	21
126	Designing the thermal behaviour of aqueous biphasic systems composed of ammonium-based zwitterions. *Green Chemistry*, **2017**, 19, 4012-4016	10	21
125	Aging mechanisms of oil-in-water emulsions based on a bioemulsifier produced by Yarrowia lipolytica. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 324, 149-154	5.1	21
124	Solid-liquid equilibria of binary mixtures of fluorinated ionic liquids. *Physical Chemistry Chemical Physics*, **2016**, 18, 25741-50	3.6	21
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