

Isabel M Marrucho

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258 papers	17,289 citations	73 h-index	121 g-index
268 ext. papers	19,045 ext. citations	5.2 avg, IF	6.9 L-index

#	Paper	IF	Citations
258	Aqueous biphasic systems: a boost brought about by using ionic liquids. <i>Chemical Society Reviews</i> , 2012 , 41, 4966-95	58.5	610
257	Hydrolysis of tetrafluoroborate and hexafluorophosphate counter ions in imidazolium-based ionic liquids. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 3744-9	2.8	475
256	Insights into the Synthesis and Properties of Deep Eutectic Solvents Based on Cholinium Chloride and Carboxylic Acids. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2416-2425	8.3	391
255	Surface tensions of imidazolium based ionic liquids: anion, cation, temperature and water effect. <i>Journal of Colloid and Interface Science</i> , 2007 , 314, 621-30	9.3	369
254	Ionic liquids in separations of azeotropic systems I A review. <i>Journal of Chemical Thermodynamics</i> , 2012 , 46, 2-28	2.9	359
253	High-Pressure Densities and Derived Thermodynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 80-88	2.8	357
252	Mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13082-9	3.4	347
251	Mutual solubilities of water and the [C(n)mim][Tf(2)N] hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1604-10	3.4	289
250	Ionic liquids: first direct determination of their cohesive energy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 284-5	16.4	278
249	Ionic liquid-based materials: a platform to design engineered CO ₂ separation membranes. <i>Chemical Society Reviews</i> , 2016 , 45, 2785-824	58.5	271
248	Ionic liquids in pharmaceutical applications. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014 , 5, 527-46	8.9	269
247	An overview of the mutual solubilities of waterimidazolium-based ionic liquids systems. <i>Fluid Phase Equilibria</i> , 2007 , 261, 449-454	2.5	265
246	Evaluation of anion influence on the formation and extraction capacity of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9304-10	3.4	264
245	Menthol-based Eutectic Mixtures: Hydrophobic Low Viscosity Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2469-2477	8.3	261
244	P ¹ Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1881-1888	2.8	257
243	Evaluation of cation influence on the formation and extraction capability of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 5194-9	3.4	221
242	Densities and Derived Thermodynamic Properties of Imidazolium-, Pyridinium-, Pyrrolidinium-, and Piperidinium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 805-811	2.8	216

241	Development of hydrophobic deep eutectic solvents for extraction of pesticides from aqueous environments. <i>Fluid Phase Equilibria</i> , 2017 , 448, 135-142	2.5	206
240	Evaluation of cation-anion interaction strength in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 4033-41	3.4	197
239	High-performance extraction of alkaloids using aqueous two-phase systems with ionic liquids. <i>Green Chemistry</i> , 2010 , 12, 1715	10	194
238	Viscosity of (C2–14) 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids in an extended temperature range. <i>Fluid Phase Equilibria</i> , 2011 , 301, 22-32	2.5	191
237	Specific solvation interactions of CO ₂ on acetate and trifluoroacetate imidazolium based ionic liquids at high pressures. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6803-12	3.4	186
236	Surface Tensions for the 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1346-1350	2.8	186
235	High-accuracy vapor pressure data of the extended [C(n)C1im][Ntf2] ionic liquid series: trend changes and structural shifts. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10919-26	3.4	182
234	Ion specific effects on the mutual solubilities of water and hydrophobic ionic liquids. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 202-11	3.4	168
233	Extraction of biomolecules using phosphonium-based ionic liquids + K(3)PO(4) aqueous biphasic systems. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 1777-91	6.3	165
232	From Phase Change Materials to Green Solvents: Hydrophobic Low Viscous Fatty AcidBased Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3888-3895	8.3	163
231	Systematic study of the thermophysical properties of imidazolium-based ionic liquids with cyano-functionalized anions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10271-83	3.4	153
230	High pressure phase behavior of carbon dioxide in 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and 1-butyl-3-methylimidazolium dicyanamide ionic liquids. <i>Journal of Supercritical Fluids</i> , 2009 , 50, 105-111	4.2	149
229	High carbon dioxide solubilities in trihexyltetradecylphosphonium-based ionic liquids. <i>Journal of Supercritical Fluids</i> , 2010 , 52, 258-265	4.2	138
228	Quest for Green-Solvent Design: From Hydrophilic to Hydrophobic (Deep) Eutectic Solvents. <i>ChemSusChem</i> , 2019 , 12, 1549-1559	8.3	138
227	Pyrrolidinium-based polymeric ionic liquid materials: New perspectives for CO ₂ separation membranes. <i>Journal of Membrane Science</i> , 2013 , 428, 260-266	9.6	136
226	Evaluation of COSMO-RS for the prediction of LLE and VLE of water and ionic liquids binary systems. <i>Fluid Phase Equilibria</i> , 2008 , 268, 74-84	2.5	127
225	Production and characterization of a bioemulsifier from <i>Yarrowia lipolytica</i> . <i>Process Biochemistry</i> , 2006 , 41, 1894-1898	4.8	125
224	Measurements and Correlation of High-Pressure Densities of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1914-1921	2.8	123

223	Fluorinated Ionic Liquids: Properties and Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 427-439	8.3	122
222	(Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids. <i>Separation and Purification Technology</i> , 2010 , 72, 85-91	8.3	122
221	Aqueous biphasic systems: a benign route using cholinium-based ionic liquids. <i>RSC Advances</i> , 2013 , 3, 1835-1843	3.7	121
220	High pressure phase behavior of carbon dioxide in 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Journal of Supercritical Fluids</i> , 2009 , 48, 99-107	4.2	121
219	Surface Tension of Heptane, Decane, Hexadecane, Eicosane, and Some of Their Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1442-1445	2.8	121
218	Evaluation of COSMO-RS for the prediction of LLE and VLE of alcohols+ionic liquids. <i>Fluid Phase Equilibria</i> , 2007 , 255, 167-178	2.5	118
217	Extraction of l-lactic, l-malic, and succinic acids using phosphonium-based ionic liquids. <i>Separation and Purification Technology</i> , 2012 , 85, 137-146	8.3	112
216	Ionic liquid-based aqueous biphasic system for lipase extraction. <i>Green Chemistry</i> , 2011 , 13, 390-396	10	111
215	Tryptophan extraction using hydrophobic ionic liquids. <i>Separation and Purification Technology</i> , 2010 , 72, 167-173	8.3	111
214	Protein-based materials: from sources to innovative sustainable materials for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3715-3740	7.3	109
213	Deep eutectic solvents as extraction media for azeotropic mixtures. <i>Green Chemistry</i> , 2013 , 15, 1326	10	109
212	¹ 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> , 2010 , 114, 2004-14	3.4	109
211	Structural and Positional Isomerism Influence in the Physical Properties of Pyridinium NTf ₂ -Based Ionic Liquids: Pure and Water-Saturated Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4514-4520	2.8	104
210	Prediction of aqueous solubilities of solid carboxylic acids with COSMO-RS. <i>Fluid Phase Equilibria</i> , 2010 , 289, 140-147	2.5	102
209	Solubility of Water in Tetradecyltrihexylphosphonium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2378-2382	2.8	101
208	Vapor-Liquid Equilibrium of Carbon Dioxide-Perfluoroalkane Mixtures: Experimental Data and SAFT Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 2341-2350	3.9	95
207	Salting-out effects in aqueous ionic liquid solutions: cloud-point temperature shifts. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4737-41	3.4	92
206	Deep eutectic solvents: overcoming 21st century challenges. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019 , 18, 31-36	7.9	91

205	Densities and Viscosities of 1-Ethyl-3-methylimidazolium n-Alkyl Sulfates. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3433-3441	2.8	86
204	Densities and Viscosities of Mixtures of Two Ionic Liquids Containing a Common Cation. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2828-2843	2.8	85
203	On the formation of a third, nanostructured domain in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10826-33	3.4	84
202	Development of novel ionic liquids based on ampicillin. <i>MedChemComm</i> , 2012 , 3, 494	5	83
201	Inorganic salts in purely ionic liquid media: the development of High Ionicity Ionic Liquids (HIILs). <i>Chemical Communications</i> , 2012 , 48, 3656-8	5.8	82
200	Deep Eutectic Solvents as Azeotrope Breakers: Liquid-Liquid Extraction and COSMO-RS Prediction. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5640-5650	8.3	82
199	Polymeric ionic liquid-based membranes: Influence of polycation variation on gas transport and CO ₂ selectivity properties. <i>Journal of Membrane Science</i> , 2015 , 486, 40-48	9.6	81
198	Pullulan-based nanocomposite films for functional food packaging: Exploiting lysozyme nanofibers as antibacterial and antioxidant reinforcing additives. <i>Food Hydrocolloids</i> , 2018 , 77, 921-930	10.6	81
197	CO ₂ separation applying ionic liquid mixtures: the effect of mixing different anions on gas permeation through supported ionic liquid membranes. <i>RSC Advances</i> , 2013 , 3, 12220	3.7	80
196	Solubility of Antibiotics in Different Solvents. 1. Hydrochloride Forms of Tetracycline, Moxifloxacin, and Ciprofloxacin. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 6368-6374	3.9	79
195	Surface tension of chain molecules through a combination of the gradient theory with the CPA EoS. <i>Fluid Phase Equilibria</i> , 2008 , 267, 83-91	2.5	78
194	Prediction of Cloud Points of Biodiesel. <i>Energy & Fuels</i> , 2008 , 22, 747-752	4.1	77
193	Towards an understanding of the mutual solubilities of water and hydrophobic ionic liquids in the presence of salts: the anion effect. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 2815-25	3.4	76
192	Viscosity and Liquid Density of Asymmetric Hydrocarbon Mixtures. <i>International Journal of Thermophysics</i> , 2003 , 24, 1221-1239	2.1	76
191	Density, thermal expansion and viscosity of cholinium-derived ionic liquids. <i>ChemPhysChem</i> , 2012 , 13, 1902-9	3.2	75
190	Solubility of oxygen in liquid perfluorocarbons. <i>Fluid Phase Equilibria</i> , 2004 , 222-223, 325-330	2.5	75
189	A closer look into deep eutectic solvents: exploring intermolecular interactions using solvatochromic probes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 20, 206-213	3.6	75
188	High pressure solubility data of carbon dioxide in (tri-iso-butyl(methyl)phosphonium tosylate + water) systems. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 1187-1192	2.9	74

187	Solubility of non-aromatic ionic liquids in water and correlation using a QSPR approach. <i>Fluid Phase Equilibria</i> , 2010 , 294, 234-240	2.5	73
186	Prediction of Water Solubility in Biodiesel with the CPA Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 4278-4285	3.9	73
185	Novel pyrrolidinium-based polymeric ionic liquids with cyano counter-anions: High performance membrane materials for post-combustion CO ₂ separation. <i>Journal of Membrane Science</i> , 2015 , 483, 155-165	9.6	72
184	Evaluation of solubility and partition properties of ampicillin-based ionic liquids. <i>International Journal of Pharmaceutics</i> , 2013 , 456, 553-9	6.5	72
183	Preparation and characterization of bacterial cellulose membranes with tailored surface and barrier properties. <i>Cellulose</i> , 2010 , 17, 1203-1211	5.5	72
182	Solubility of oxygen in n-hexane and in n-perfluorohexane. Experimental determination and prediction by molecular simulation. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 543-549	3.6	72
181	Viscosity and Liquid Density of Asymmetric n-Alkane Mixtures: Measurement and Modeling. <i>International Journal of Thermophysics</i> , 2005 , 26, 47-61	2.1	72
180	Cholinium-based ionic liquids with pharmaceutically active anions. <i>RSC Advances</i> , 2014 , 4, 28126-28132	3.7	71
179	Thermophysical Properties and Water Saturation of [PF ₆]-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5065-5073	2.8	70
178	Investigation of polymer electrolyte based on agar and ionic liquids. <i>EXPRESS Polymer Letters</i> , 2012 , 6, 1007-1016	3.4	70
177	Mutual solubility of water and structural/positional isomers of N-alkylpyridinium-based ionic liquids. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 15925-34	3.4	69
176	Turning into poly(ionic liquid)s as a tool for polyimide modification: synthesis, characterization and CO ₂ separation properties. <i>Polymer Chemistry</i> , 2016 , 7, 580-591	4.9	68
175	SAFT Modeling of the Solubility of Gases in Perfluoroalkanes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1450-1457	3.4	68
174	Solubility of Antibiotics in Different Solvents. Part II. Non-Hydrochloride Forms of Tetracycline and Ciprofloxacin. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8083-8089	3.9	67
173	Towards a sulfur clean fuel: Deep extraction of thiophene and dibenzothiophene using polyethylene glycol-based deep eutectic solvents. <i>Fuel</i> , 2018 , 234, 414-421	7.1	66
172	Polymeric ionic liquid membranes containing ILAg ⁺ for ethylene/ethane separation via olefin-facilitated transport. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5631	13	65
171	Applications of supercritical CO ₂ extraction to microalgae and plants. <i>Journal of Chemical Technology and Biotechnology</i> , 1995 , 62, 53-59	3.5	64
170	Playing with ionic liquid mixtures to design engineered CO ₂ separation membranes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17172-82	3.6	62

169	Cholinium-based supported ionic liquid membranes: a sustainable route for carbon dioxide separation. <i>ChemSusChem</i> , 2014 , 7, 110-3	8.3	62
168	Solubility of inorganic salts in pure ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2012 , 55, 29-36	2.9	62
167	Protein stability in an ionic liquid milieu: on the use of differential scanning fluorimetry. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 13614-6	3.6	62
166	Aging mechanisms of perfluorocarbon emulsions using image analysis. <i>Journal of Colloid and Interface Science</i> , 2005 , 286, 224-32	9.3	62
165	Surface hydrophobization of bacterial and vegetable cellulose fibers using ionic liquids as solvent media and catalysts. <i>Green Chemistry</i> , 2011 , 13, 2464	10	61
164	Cholinium-Based Poly(ionic liquid)s: Synthesis, Characterization, and Application as Biocompatible Ion Gels and Cellulose Coatings.. <i>ACS Macro Letters</i> , 2013 , 2, 975-979	6.6	59
163	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	2.9	59
162	Densities and Vapor Pressures of Highly Fluorinated Compounds. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1328-1333	2.8	58
161	Phosphonium-based ionic liquids as modifiers for biomedical grade poly(vinyl chloride). <i>Acta Biomaterialia</i> , 2012 , 8, 1366-79	10.8	57
160	Optimization of oxygen mass transfer in a multiphase bioreactor with perfluorodecalin as a second liquid phase. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 588-98	4.9	57
159	Polymeric ionic liquids with mixtures of counter-anions: a new straightforward strategy for designing pyrrolidinium-based CO ₂ separation membranes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10403	13	56
158	A thermophysical and structural characterization of ionic liquids with alkyl and perfluoroalkyl side chains. <i>RSC Advances</i> , 2015 , 5, 65337-65350	3.7	55
157	The role of nanocellulose fibers, starch and chitosan on multipolysaccharide based films. <i>Cellulose</i> , 2013 , 20, 1807-1818	5.5	54
156	Understanding the Role of Cholinium Carboxylate Ionic Liquids in PEG-Based Aqueous Biphasic Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2426-2434	8.3	53
155	Carbohydrates-based deep eutectic solvents: Thermophysical properties and rice straw dissolution. <i>Journal of Molecular Liquids</i> , 2017 , 247, 441-447	6	53
154	On the interactions between amino acids and ionic liquids in aqueous media. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13971-9	3.4	52
153	Surface Tension of Liquid Fluorocompounds. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1820-1824	2.8	52
152	Modeling vapor-liquid interfaces with the gradient theory in combination with the CPA equation of state. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 479-485	2.5	52

151	Impact of self-aggregation on the formation of ionic-liquid-based aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7660-8	3.4	51
150	Gas sorption in poly(lactic acid) and packaging materials. <i>Fluid Phase Equilibria</i> , 2004 , 222-223, 317-324	2.5	51
149	Gas Permeation Properties of Fluorinated Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4994-5001	3.9	50
148	Extraction of <i>Candida antarctica</i> lipase A from aqueous solutions using imidazolium-based ionic liquids. <i>Separation and Purification Technology</i> , 2012 , 97, 205-210	8.3	50
147	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1010-1019	2.6	50
146	New Low-Toxicity Cholinium-Based Ionic Liquids with Perfluoroalkanoate Anions for Aqueous Biphasic System Implementation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2670-2679	8.3	50
145	Aggregation behavior and total miscibility of fluorinated ionic liquids in water. <i>Langmuir</i> , 2015 , 31, 1283-1295	4.5	49
144	Antitumor Activity of Ionic Liquids Based on Ampicillin. <i>ChemMedChem</i> , 2015 , 10, 1480-3	3.7	47
143	Phase Equilibria of Ethylene Glycol Oligomers and Their Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7027-7037	3.9	47
142	Thermodynamic properties of perfluoro-n-octane. <i>Fluid Phase Equilibria</i> , 2004 , 225, 39-47	2.5	47
141	Density, Viscosity, and Refractive Index of Ionic Liquid Mixtures Containing Cyano and Amino Acid-Based Anions. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 83-93	2.8	46
140	Ionic Liquids as Additives for Extraction of Saponins and Polyphenols from Mate (<i>Ilex paraguariensis</i>) and Tea (<i>Camellia sinensis</i>). <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 12146-12153	3.9	46
139	Biosurfactants from yeasts: characteristics, production and application. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 672, 236-49	3.6	46
138	Thermodynamic characterization of pure perfluoroalkanes, including interfacial and second order derivative properties, using the crossover soft-SAFT EoS. <i>Fluid Phase Equilibria</i> , 2009 , 286, 134-143	2.5	46
137	Liquid-Liquid equilibrium of (perfluoroalkane+alkane) binary mixtures. <i>Fluid Phase Equilibria</i> , 2006 , 242, 210-219	2.5	45
136	Measurement and modeling of surface tensions of asymmetric systems: heptane, eicosane, docosane, tetracosane and their mixtures. <i>Fluid Phase Equilibria</i> , 2003 , 214, 211-221	2.5	45
135	Aqueous biphasic systems involving alkylsulfate-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 1565-1572	2.9	44
134	Novel polymer electrolytes based on gelatin and ionic liquids. <i>Optical Materials</i> , 2012 , 35, 187-195	3.3	43

133	Hydrophobic Deep Eutectic Solvents: A Circular Approach to Purify Water Contaminated with Ciprofloxacin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14739-14746	8.3	42
132	Surface tension of pure heavy n-alkanes: a corresponding states approach. <i>Fluid Phase Equilibria</i> , 2001 , 183-184, 229-238	2.5	42
131	Description of the mutual solubilities of fatty acids and water with the CPA EoS. <i>AIChE Journal</i> , 2009 , 55, 1604-1613	3.6	41
130	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures: Thermal treatment effect. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 616-625	2.6	40
129	Prediction of viscosities and surface tensions of fuels using a new corresponding states model. <i>Fuel</i> , 2006 , 85, 874-877	7.1	39
128	Density and Viscosity Data for Binary Mixtures of 1-Alkyl-3-methylimidazolium Alkylsulfates + Water. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3473-3482	2.8	38
127	Concurrent Desulfurization and Denitrogenation of Fuels Using Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11341-11349	8.3	37
126	Extraction of saponins from sisal (<i>Agave sisalana</i>) and juçara (<i>Ziziphus joazeiro</i>) with cholinium-based ionic liquids and deep eutectic solvents. <i>European Food Research and Technology</i> , 2013 , 237, 965-975	3.4	37
125	Bioactive transparent films based on polysaccharides and cholinium carboxylate ionic liquids. <i>Green Chemistry</i> , 2015 , 17, 4291-4299	10	36
124	Effect of polymer molecular weight on the physical properties and CO ₂ /N ₂ separation of pyrrolidinium-based poly(ionic liquid) membranes. <i>Journal of Membrane Science</i> , 2018 , 549, 267-274	9.6	36
123	Novel organic salts based on fluoroquinolone drugs: synthesis, bioavailability and toxicological profiles. <i>International Journal of Pharmaceutics</i> , 2014 , 469, 179-89	6.5	36
122	Removal of Non-Steroidal Anti-Inflammatory Drugs from Aqueous Environments with Reusable Ionic-Liquid-based Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2428-2436	8.3	34
121	Preparation and evaluation of the barrier properties of cellophane membranes modified with fatty acids. <i>Carbohydrate Polymers</i> , 2011 , 83, 836-842	10.3	34
120	Solubility of water in fluorocarbons: Experimental and COSMO-RS prediction results. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 213-219	2.9	34
119	Solubility of fluorinated compounds in a range of ionic liquids. Cloud-point temperature dependence on composition and pressure. <i>Green Chemistry</i> , 2008 , 10, 918	10	34
118	Mixing poly(ionic liquid)s and ionic liquids with different cyano anions: Membrane forming ability and CO ₂ /N ₂ separation properties. <i>Journal of Membrane Science</i> , 2018 , 552, 341-348	9.6	33
117	Structural and functional evaluation of ionic liquid libraries for the design of co-solvents in lipase-catalysed reactions. <i>Green Chemistry</i> , 2014 , 16, 4520-4523	10	33
116	Surface Tension of Decane Binary and Ternary Mixtures with Eicosane, Docosane, and Tetracosane. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1043-1046	2.8	33

115	Phase Equilibria Calculations of Polyethylene Solutions from SAFT-Type Equations of State. <i>Macromolecules</i> , 2006 , 39, 4240-4246	5.5	33
114	Carbon dioxide, ethylene and water vapor sorption in poly(lactic acid). <i>Fluid Phase Equilibria</i> , 2006 , 250, 116-124	2.5	33
113	Ionic liquids with anions based on fluorosulfonyl derivatives: from asymmetrical substitutions to a consistent force field model. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29617-29624	3.6	32
112	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	2.5	31
111	Partition Coefficients of Alkaloids in Biphasic Ionic-Liquid-Aqueous Systems and their Dependence on the Hofmeister Series. <i>Separation Science and Technology</i> , 2012 , 47, 284-291	2.5	31
110	Optical Properties 2010 , 97-112		31
109	Improving lipase production using a perfluorocarbon as oxygen carrier. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1368-1374	3.5	31
108	Water solubility in linear fluoroalkanes used in blood substitute formulations. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22923-9	3.4	31
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