Ana Rodriguez

List of Publications by Citations

115 papers	4,195 citations	37 h-index	61 g-index
115 ext. papers	4,509 ext. citations	5 avg, IF	5.56 L-index

#	Paper	IF	Citations
115	Toxicity and biodegradability of imidazolium ionic liquids. *Journal of Hazardous Materials*, **2008**, 151, 268-73	12.8	510
114	Physical properties of ionic liquids based on 1-alkyl-3-methylimidazolium cation and hexafluorophosphate as anion and temperature dependence. *Journal of Chemical Thermodynamics*, **2007**, 39, 1168-1175	2.9	197
113	Physical Properties of 1-Butyl-3-methylimidazolium Methyl Sulfate as a Function of Temperature. *Journal of Chemical & Engineering Data*, **2007**, 52, 377-380	2.8	156
112	Density, Refractive Index, and Speed of Sound of Binary Mixtures (Diethyl Carbonate + Alcohols) at Several Temperatures. *Journal of Chemical & Engineering Data*, **2001**, 46, 1506-1515	2.8	142
111	Properties of ionic liquid HMIMPF6 with carbonates, ketones and alkyl acetates. *Journal of Chemical Thermodynamics*, **2006**, 38, 651-661	2.9	115
110	Ionic liquid-based aqueous biphasic system for lipase extraction. *Green Chemistry*, **2011**, 13, 390-396	10	111
109	Temperature Dependence of Physical Properties of Ionic Liquid 1,3-Dimethylimidazolium Methyl Sulfate. *Journal of Chemical & Engineering Data*, **2006**, 51, 952-954	2.8	109
108	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K. *Journal of Chemical & Engineering Data*, **2007**, 52, 600-608	2.8	97
107	Effect of temperature on the physical properties of two ionic liquids. *Journal of Chemical Thermodynamics*, **2009**, 41, 1419-1423	2.9	96
106	Study on the phase behaviour and thermodynamic properties of ionic liquids containing imidazolium cation with ethanol at several temperatures. *Journal of Chemical Thermodynamics*, **2007**, 39, 978-989	2.9	95
105	HMImPF6 ionic liquid that separates the azeotropic mixture ethanol + heptane. *Green Chemistry*, **2006**, 8, 307	10	89
104	Variation of Densities, Refractive Indices, and Speeds of Sound with Temperature of Methanol or Ethanol with Hexane, Heptane, and Octane. *Journal of Chemical & Engineering Data*, **1999**, 44, 1041-1047	2.8	81
103	Azeotrope-breaking using [BMIM] [MeSO4] ionic liquid in an extraction column. *Separation and Purification Technology*, **2008**, 62, 733-738	8.3	69
102	Application of the ionic liquid Ammoeng 102 for aromatic/aliphatic hydrocarbon separation. *Journal of Chemical Thermodynamics*, **2009**, 41, 951-956	2.9	65
101	Separation of Ethanol/Heptane Azeotropic Mixtures by Solvent Extraction with an Ionic Liquid. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1579-1585	3.9	62
100	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures. *Journal of Chemical & Engineering Data*, **2004**, 49, 1392-1399	2.8	62
99	Physical properties of the binary mixtures (diethyl carbonate + hexane, heptane, octane and cyclohexane) from T=293.15 K to T=313.15 K. *Journal of Chemical Thermodynamics*, **2003**, 35, 1321-1333	2.9	62

98	Viscosities of Dimethyl Carbonate or Diethyl Carbonate with Alkanes at Four Temperatures. New UNIFAC-VISCO Parameters. *Journal of Chemical & Engineering Data*, **2003**, 48, 146-151	2.8	62
97	A study on the liquid–liquid equilibria of 1-alkyl-3-methylimidazolium hexafluorophosphate with ethanol and alkanes. *Fluid Phase Equilibria*, **2008**, 270, 23-29	2.5	60
96	Sodium carbonate as phase promoter in aqueous solutions of imidazolium and pyridinium ionic liquids. *Journal of Chemical Thermodynamics*, **2011**, 43, 1153-1158	2.9	58
95	On the double role of surfactants as microalga cell lysis agents and antioxidants extractants. *Green Chemistry*, **2012**, 14, 1044	10	55
94	Ternary (liquid + liquid) equilibria of the azeotrope (ethyl acetate + 2-propanol) with different ionic liquids at T = 298.15 K. *Journal of Chemical Thermodynamics*, **2007**, 39, 1608-1613	2.9	54
93	Impact of ionic liquids on extreme microbial biotypes from soil. *Green Chemistry*, **2011**, 13, 687	10	52
92	Extraction of Candida antarctica lipase A from aqueous solutions using imidazolium-based ionic liquids. *Separation and Purification Technology*, **2012**, 97, 205-210	8.3	50
91	Isobaric Vapor–Liquid Equilibria and Excess Properties for the Binary Systems of Methyl Esters + Heptane. *Journal of Chemical & Engineering Data*, **2003**, 48, 1183-1190	2.8	48
90	Purification of hexane with effective extraction using ionic liquid as solvent. *Green Chemistry*, **2009**, 11, 346	10	45
89	Viscosities of dimethyl carbonate with alcohols at several temperatures: UNIFAC-VISCO interaction parameters (?OCOO?/alcohol). *Fluid Phase Equilibria*, **2004**, 216, 167-174	2.5	45
88	On the hunt for truly biocompatible ionic liquids for lipase-catalyzed reactions. *RSC Advances*, **2015**, 5, 3386-3389	3.7	44
87	Aqueous biphasic systems involving alkylsulfate-based ionic liquids. *Journal of Chemical Thermodynamics*, **2011**, 43, 1565-1572	2.9	44
86	Novel physico-biological treatment for the remediation of textile dyes-containing industrial effluents. *Bioresource Technology*, **2013**, 146, 689-695	11	42
85	Laccase activity from the fungus Trametes hirsuta using an air-lift bioreactor. *Letters in Applied Microbiology*, **2006**, 42, 612-6	2.9	42
84	Effective extraction in packed column of ethanol from the azeotropic mixture ethanol + hexane with an ionic liquid as solvent. *Chemical Engineering Journal*, **2009**, 153, 80-85	14.7	41
83	Phase Equilibria of the Azeotropic Mixture Hexane + Ethyl Acetate with Ionic Liquids at 298.15 K. *Journal of Chemical & Engineering Data*, **2008**, 53, 1360-1366	2.8	41
82	Sodium salt effect on aqueous solutions containing Tween 20 and Triton X-102. *Journal of Chemical Thermodynamics*, **2012**, 47, 62-67	2.9	40
81	Measurement and correlation of (liquid + liquid) equilibrium of the azeotrope (cyclohexane + 2-butanone) with different ionic liquids at T = 298.15 K. *Journal of Chemical Thermodynamics*, **2008**, 40, 1282-1289	2.9	40

80	Study of thermodynamic and transport properties of phosphonium-based ionic liquids. *Journal of Chemical Thermodynamics*, **2013**, 62, 98-103	2.9	38
79	Isobaric Phase Equilibria of Diethyl Carbonate with Five Alcohols at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2003**, 48, 86-91	2.8	38
78	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. *Fluid Phase Equilibria*, **2010**, 291, 13-17	2.5	35
77	Dynamic Viscosities of Diethyl Carbonate with Linear and Secondary Alcohols at Several Temperatures. *Journal of Chemical & Engineering Data*, **2004**, 49, 157-162	2.8	35
76	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. *Journal of Chemical & Engineering Data*, **2007**, 52, 2138-2142	2.8	34
75	Mixing Properties of the System Methyl Acetate + Methanol + Ethanol at 298.15 K. *Journal of Chemical & Engineering Data*, **1996**, 41, 1446-1449	2.8	34
74	Structural–functional evaluation of ionic liquid libraries for the design of co-solvents in lipase-catalysed reactions. *Green Chemistry*, **2014**, 16, 4520-4523	10	33
73	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. *Fluid Phase Equilibria*, **2010**, 294, 49-53	2.5	33
72	Isobaric Vapor–Liquid Equilibria of Diethyl Carbonate with Four Alkanes at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2002**, 47, 1098-1102	2.8	33
71	Ionic liquids and non-ionic surfactants: a new marriage for aqueous segregation. *RSC Advances*, **2014**, 4, 32698	3.7	30
70	Co-solvent effects in LLE of 1-hydroxyethyl-3-methylimidazolium based ionic liquids+2-propanol+dichloromethane or 1,2-dichloroethane. *Fluid Phase Equilibria*, **2007**, 254, 35-41	2.5	30
69	A biocompatible stepping stone for the removal of emerging contaminants. *Separation and Purification Technology*, **2015**, 153, 91-98	8.3	29
68	Triton X surfactants to form aqueous biphasic systems: Experiment and correlation. *Journal of Chemical Thermodynamics*, **2012**, 54, 385-392	2.9	28
67	On the phase behaviour of polyethoxylated sorbitan (Tween) surfactants in the presence of potassium inorganic salts. *Journal of Chemical Thermodynamics*, **2012**, 55, 151-158	2.9	28
66	Binary mixtures containing OMIM PF6: density, speed of sound, refractive index and LLE with hexane, heptane and 2-propanol at several temperatures. *Physics and Chemistry of Liquids*, **2008**, 46, 162-174	1.5	28
65	Liquid–liquid equilibria of 1,3-dimethylimidazolium methyl sulfate with ketones, dialkyl carbonates and acetates. *Fluid Phase Equilibria*, **2007**, 254, 150-157	2.5	28
64	Mixing properties of binary mixtures presenting azeotropes at several temperatures. *Journal of Chemical Thermodynamics*, **2007**, 39, 1219-1230	2.9	28
63	Densities and Excess Molar Properties of Dimethyl Carbonate with Alkanes (C6to C10) and VLE of Dimethyl Carbonate with Alkanes (C9to C10) at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2004**, 49, 86-93	2.8	28

62	Scaling-up and ionic liquid-based extraction of pectinases from Aspergillus flavipes cultures. *Bioresource Technology*, **2017**, 225, 326-335	11	26
61	Experimental Liquid–liquid Equilibria of 1-Alkyl-3-methylimidazolium Hexafluorophosphate with 1-Alcohols. *Journal of Chemical & Engineering Data*, **2007**, 52, 1408-1412	2.8	26
60	Testing True Choline Ionic Liquid Biocompatibility from a Biotechnological Standpoint. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 8302-8309	8.3	24
59	Phase equilibria of haloalkanes dissolved in ethylsulfate- or ethylsulfonate-based ionic liquids. *Journal of Physical Chemistry B*, **2010**, 114, 7329-37	3.4	23
58	Dynamic viscosities of the ternary liquid mixtures (dimethyl carbonate + methanol + ethanol) and (dimethyl carbonate + methanol + hexane) at several temperatures. *Journal of Chemical Thermodynamics*, **2006**, 38, 505-519	2.9	23
57	New horizons in the enzymatic production of biodiesel using neoteric solvents. *Renewable Energy*, **2016**, 98, 92-100	8.1	23
56	Aqueous immiscibility of cholinium chloride ionic liquid and Triton surfactants. *Journal of Chemical Thermodynamics*, **2015**, 91, 86-93	2.9	22
55	Environmentally Benign Sequential Extraction of Heavy Metals from Marine Sediments. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8615-8620	3.9	22
54	Densities, Refractive Indices, and Derived Excess Properties of the System Methyl Acetate + Methanol + 2-Butanol at 298.15 K. *Journal of Chemical & Engineering Data*, **1997**, 42, 1121-1125	2.8	22
53	Microbial adaptation to ionic liquids. *RSC Advances*, **2015**, 5, 17379-17382	3.7	19
52	Thermophysical properties of two ionic liquids based on benzyl imidazolium cation. *Journal of Chemical Thermodynamics*, **2011**, 43, 487-491	2.9	19
51	Unravelling the suitability of biological induction for halophilic lipase production by Halomonas sp. LM1C cultures. *Bioresource Technology*, **2017**, 239, 368-377	11	17
50	Design of eco-friendly aqueous two-phase systems for the efficient extraction of industrial finishing dyes. *Journal of Molecular Liquids*, **2019**, 284, 625-632	6	17
49	Contriving to selectively separate drugs with a hydrophilic ionic liquid. *Separation and Purification Technology*, **2017**, 174, 29-38	8.3	17
48	Targeting the Production of Biomolecules by Extremophiles at Bioreactor Scale. *Chemical Engineering and Technology*, **2012**, 35, 1565-1575	2	17
47	VLE of the binary systems (dimethyl carbonate with 2-propanol or 2-butanol) and (diethyl carbonate with methylcyclohexane) at 101.3 kPa. *Journal of Chemical Thermodynamics*, **2005**, 37, 249-257	2.9	17
46	Biorefining brewery spent grain polysaccharides through biotuning of ionic liquids. *Carbohydrate Polymers*, **2019**, 203, 265-274	10.3	16
45	An ionic liquid proposed as solvent in aromatic hydrocarbon separation by liquid extraction. *AICHE Journal*, **2009**, 56, NA-NA	3.6	15

44	Probing the self-aggregation of ionic liquids in aqueous solutions using density and speed of sound data. *Journal of Chemical Thermodynamics*, **2013**, 59, 43-48	2.9	14
43	New insight into phase equilibria involving imidazolium bistriflamide ionic liquids and their mixtures with alcohols and water. *Journal of Physical Chemistry B*, **2010**, 114, 8978-85	3.4	14
42	Densities, refractive indices and speeds of sound of the ternary mixtures (dimethyl carbonate+methanol+ethanol) and (dimethyl carbonate+methanol+1-propanol) at T=298.15 K. *Journal of Chemical Thermodynamics*, **2003**, 35, 2021-2031	2.9	14
41	Phase segregation in aqueous solutions of non-ionic surfactants using ammonium, magnesium and iron salts. *Journal of Chemical Thermodynamics*, **2014**, 70, 147-153	2.9	13
40	(Liquid+liquid) equilibrium of aqueous biphasic systems composed of 1-benzyl or 1-hexyl-3-methylimidazolium chloride ionic liquids and inorganic salts. *Journal of Chemical Thermodynamics*, **2012**, 54, 272-277	2.9	13
39	Pesticide removal from aqueous solutions by adding salting out agents. *International Journal of Molecular Sciences*, **2013**, 14, 20954-65	6.3	13
38	Simultaneous biotreatment of Polycyclic Aromatic Hydrocarbons and dyes in a one-step bioreaction by an acclimated Pseudomonas strain. *Bioresource Technology*, **2015**, 198, 181-8	11	12
37	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. *Journal of Chemical & Engineering Data*, **2005**, 50, 481-486	2.8	12
36	Hybrid sequential treatment of aromatic hydrocarbon-polluted effluents using non-ionic surfactants as solubilizers and extractants. *Bioresource Technology*, **2014**, 162, 259-65	11	11
35	Aqueous two-phase systems containing imidazolium ionic liquids and a Tween surfactant. *Journal of Chemical Thermodynamics*, **2017**, 105, 209-216	2.9	11
34	Ionic liquids improve the anticorrosion performance of Zn-rich coatings. *RSC Advances*, **2014**, 4, 59587-59593	3.9	11
33	On the Suitability of a Bacterial Consortium To Implement a Continuous PAHs Biodegradation Process in a Stirred Tank Bioreactor. *Industrial & Engineering Chemistry Research*, **2012**, 51, 15895-15900	3.8	11
32	Mixtures of Pyridine and Nicotine with Pyridinium-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2011**, 56, 4356-4363	2.8	11
31	Vapor–liquid equilibria for systems of diethyl carbonate and ketones and determination of group interaction parameters for the UNIFAC and ASOG methods. *Fluid Phase Equilibria*, **2005**, 235, 83-91	2.5	11
30	Salting out potential of cholinium dihydrogen citrate in aqueous solution of Triton surfactants. *Journal of Chemical Thermodynamics*, **2018**, 118, 235-243	2.9	11
29	Ionic liquids for the concomitant use in extremophiles lysis and extremozymes extraction. *Bioresource Technology*, **2015**, 186, 303-308	11	10
28	Towards the use of eco-friendly solvents as adjuvants in remediation processes. *Journal of Molecular Liquids*, **2020**, 305, 112824	6	9
27	Microbial Adaptation to Ionic Liquids Increases the Talent to Treat Contaminants. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1637-1642	8.3	7

26	Molecular dynamics studies on the structure and interactions of ionic liquids containing amino-acid anions. *Physical Chemistry Chemical Physics*, **2018**, 20, 23864-23872	3.6	6
25	Suitability of dihydrogen phosphate anion to salt out cholinium-based ionic liquids. *Journal of Chemical Thermodynamics*, **2019**, 133, 143-150	2.9	5
24	Triggering phase disengagement of 1-alkyl-3-methylimidazolium chloride ionic liquids by using inorganic and organic salts. *Journal of Chemical Thermodynamics*, **2015**, 88, 1-7	2.9	5
23	Unraveling the Impact of Chloride and Sulfate Ions Collection on Atmospheric Corrosion of Steel. *Corrosion*, **2013**, 69, 1217-1224	1.8	5
22	Non-ionic surfactants and ionic liquids are a suitable combination for aqueous two-phase systems. *Fluid Phase Equilibria*, **2019**, 502, 112302	2.5	4
21	Biocompatible amino acid-based ionic liquids for extracting hormones and antibiotics from swine effluents. *Separation and Purification Technology*, **2020**, 250, 117068	8.3	4
20	Potential of cholinium glycinate for the extraction of extremophilic lipolytic biocatalysts. *Separation and Purification Technology*, **2020**, 248, 117008	8.3	4
19	Influence of the addition of Tween 20 on the phase behaviour of ionic liquids-based aqueous systems. *Journal of Chemical Thermodynamics*, **2014**, 79, 178-183	2.9	4
18	Choline dihydrogen phosphate-based deep eutectic solvent: A suitable bioplatform for lipase extraction. *Separation and Purification Technology*, **2021**, 265, 118525	8.3	4
17	Recovery and reuse of ionic liquid cholinium glycinate in the treatment of brewery spent grain. *Separation and Purification Technology*, **2021**, 254, 117651	8.3	4
16	Sketching a Suitable Immobilization Strategy for Ionic Liquid Removal in a Fixed-Bed Bioreactor. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4307-4314	8.3	3
15	Ionic liquids for enzyme-catalyzed production of biodiesel **2020**, 31-47		3
14	Cholinium dipeptide as the cornerstone to build promising separation processes: A simultaneous recovery strategy for microalgae biorefineries. *Separation and Purification Technology*, **2020**, 250, 117288	8.3	3
13	An Inert Ionic Liquid-Based System for Ascertaining Electrolyte Diffusivity in Protective Coatings. *Corrosion*, **2015**, 71, 259-266	1.8	3
12	On the Use of Ionic Liquids to Separate Aromatic Hydrocarbons from a Model Soil. *Separation Science and Technology*, **2012**, 47, 377-385	2.5	3
11	Surfactant-assisted disruption and extraction for carotenoid production from a novel Dunaliella strain. *Separation and Purification Technology*, **2019**, 223, 243-249	8.3	2
10	Liquid-liquid demixing of Tergitol solutions by sodium salts. *Journal of Chemical Thermodynamics*, **2018**, 126, 111-118	2.9	2
9	Setting the Foundations of Aqueous Three-Phase Systems (A3PS) in the Quest for a Rational Design. *ChemPhysChem*, **2019**, 20, 3311-3321	3.2	2

8	Designing novel biocompatible oligopeptide-based ionic liquids for greener downstream processes. *Journal of Cleaner Production*, **2021**, 279, 123356	10.3	2
7	Plotting a nature-friendly separation process for recovering volatile fatty acids. *Journal of Molecular Liquids*, **2020**, 315, 113755	6	1
6	Demonstrating the viability of halolipase production at a mechanically stirred tank biological reactor. *Bioresource Technology*, **2018**, 263, 334-339	11	1
5	Effective lipase extraction: Designing a natural liquid support for immobilization. *Separation and Purification Technology*, **2022**, 278, 119601	8.3	1
4	Synthesis and characterization of a lipase-friendly DES based on cholinium dihydrogen phosphate. *Journal of Molecular Liquids*, **2021**, 340, 117230	6	0
3	Dual role of a natural deep eutectic solvent as lipase extractant and transesterification enhancer. *Journal of Cleaner Production*, **2022**, 346, 131095	10.3	0
2	Salting out Tergitol 15S-based surfactants for extremolipases separation. *Journal of Molecular Liquids*, **2022**, 353, 118736	6	0
1	Combining biodegradable surfactants and potassium inorganic salts for efficiently removing polycyclic aromatic hydrocarbons from aqueous effluents. *Journal of Water Process Engineering*, **2022**, 47, 102796	6.7	0