

Ana Rodriguez

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.

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	Effective lipase extraction: Designing a natural liquid support for immobilization. <i>Separation and Purification Technology</i> , 2022 , 278, 119601	8.3	1
114	Dual role of a natural deep eutectic solvent as lipase extractant and transesterification enhancer. <i>Journal of Cleaner Production</i> , 2022 , 346, 131095	10.3	0
113	Salting out Tergitol 15S-based surfactants for extremolipases separation. <i>Journal of Molecular Liquids</i> , 2022 , 353, 118736	6	0
112	Combining biodegradable surfactants and potassium inorganic salts for efficiently removing polycyclic aromatic hydrocarbons from aqueous effluents. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102796	6.7	0
111	Choline dihydrogen phosphate-based deep eutectic solvent: A suitable bioplatfrom for lipase extraction. <i>Separation and Purification Technology</i> , 2021 , 265, 118525	8.3	4
110	Recovery and reuse of ionic liquid cholinium glycinate in the treatment of brewery spent grain. <i>Separation and Purification Technology</i> , 2021 , 254, 117651	8.3	4
109	Synthesis and characterization of a lipase-friendly DES based on cholinium dihydrogen phosphate. <i>Journal of Molecular Liquids</i> , 2021 , 340, 117230	6	0
108	Designing novel biocompatible oligopeptide-based ionic liquids for greener downstream processes. <i>Journal of Cleaner Production</i> , 2021 , 279, 123356	10.3	2
107	Biocompatible amino acid-based ionic liquids for extracting hormones and antibiotics from swine effluents. <i>Separation and Purification Technology</i> , 2020 , 250, 117068	8.3	4
106	Potential of cholinium glycinate for the extraction of extremophilic lipolytic biocatalysts. <i>Separation and Purification Technology</i> , 2020 , 248, 117008	8.3	4
105	Ionic liquids for enzyme-catalyzed production of biodiesel 2020 , 31-47		3
104	Towards the use of eco-friendly solvents as adjuvants in remediation processes. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112824	6	9
103	Cholinium dipeptide as the cornerstone to build promising separation processes: A simultaneous recovery strategy for microalgae biorefineries. <i>Separation and Purification Technology</i> , 2020 , 250, 117288	8.3	3
102	Plotting a nature-friendly separation process for recovering volatile fatty acids. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113755	6	1
101	Non-ionic surfactants and ionic liquids are a suitable combination for aqueous two-phase systems. <i>Fluid Phase Equilibria</i> , 2019 , 502, 112302	2.5	4
100	Sketching a Suitable Immobilization Strategy for Ionic Liquid Removal in a Fixed-Bed Bioreactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4307-4314	8.3	3
99	Surfactant-assisted disruption and extraction for carotenoid production from a novel <i>Dunaliella</i> strain. <i>Separation and Purification Technology</i> , 2019 , 223, 243-249	8.3	2

98	Design of eco-friendly aqueous two-phase systems for the efficient extraction of industrial finishing dyes. <i>Journal of Molecular Liquids</i> , 2019 , 284, 625-632	6	17
97	Suitability of dihydrogen phosphate anion to salt out cholinium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2019 , 133, 143-150	2.9	5
96	Setting the Foundations of Aqueous Three-Phase Systems (A3PS) in the Quest for a Rational Design. <i>ChemPhysChem</i> , 2019 , 20, 3311-3321	3.2	2
95	Biorefining brewery spent grain polysaccharides through biotuning of ionic liquids. <i>Carbohydrate Polymers</i> , 2019 , 203, 265-274	10.3	16
94	Molecular dynamics studies on the structure and interactions of ionic liquids containing amino-acid anions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23864-23872	3.6	6
93	Liquid-liquid demixing of Tergitol solutions by sodium salts. <i>Journal of Chemical Thermodynamics</i> , 2018 , 126, 111-118	2.9	2
92	Salting out potential of cholinium dihydrogen citrate in aqueous solution of Triton surfactants. <i>Journal of Chemical Thermodynamics</i> , 2018 , 118, 235-243	2.9	11
91	Demonstrating the viability of halolipase production at a mechanically stirred tank biological reactor. <i>Bioresource Technology</i> , 2018 , 263, 334-339	11	1
90	Unravelling the suitability of biological induction for halophilic lipase production by Halomonas sp. LM1C cultures. <i>Bioresource Technology</i> , 2017 , 239, 368-377	11	17
89	Testing True Choline Ionic Liquid Biocompatibility from a Biotechnological Standpoint. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8302-8309	8.3	24
88	Scaling-up and ionic liquid-based extraction of pectinases from <i>Aspergillus flavipes</i> cultures. <i>Bioresource Technology</i> , 2017 , 225, 326-335	11	26
87	Aqueous two-phase systems containing imidazolium ionic liquids and a Tween surfactant. <i>Journal of Chemical Thermodynamics</i> , 2017 , 105, 209-216	2.9	11
86	Contriving to selectively separate drugs with a hydrophilic ionic liquid. <i>Separation and Purification Technology</i> , 2017 , 174, 29-38	8.3	17
85	Microbial Adaptation to Ionic Liquids Increases the Valence to Treat Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1637-1642	8.3	7
84	New horizons in the enzymatic production of biodiesel using neoteric solvents. <i>Renewable Energy</i> , 2016 , 98, 92-100	8.1	23
83	Aqueous immiscibility of cholinium chloride ionic liquid and Triton surfactants. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 86-93	2.9	22
82	Triggering phase disengagement of 1-alkyl-3-methylimidazolium chloride ionic liquids by using inorganic and organic salts. <i>Journal of Chemical Thermodynamics</i> , 2015 , 88, 1-7	2.9	5
81	Ionic liquids for the concomitant use in extremophiles lysis and extremozymes extraction. <i>Bioresource Technology</i> , 2015 , 186, 303-308	11	10

80	Microbial adaptation to ionic liquids. <i>RSC Advances</i> , 2015 , 5, 17379-17382	3.7	19
79	Simultaneous biotreatment of Polycyclic Aromatic Hydrocarbons and dyes in a one-step bioreaction by an acclimated <i>Pseudomonas</i> strain. <i>Bioresource Technology</i> , 2015 , 198, 181-8	11	12
78	A biocompatible stepping stone for the removal of emerging contaminants. <i>Separation and Purification Technology</i> , 2015 , 153, 91-98	8.3	29
77	On the hunt for truly biocompatible ionic liquids for lipase-catalyzed reactions. <i>RSC Advances</i> , 2015 , 5, 3386-3389	3.7	44
76	An Inert Ionic Liquid-Based System for Ascertaining Electrolyte Diffusivity in Protective Coatings. <i>Corrosion</i> , 2015 , 71, 259-266	1.8	3
75	Hybrid sequential treatment of aromatic hydrocarbon-polluted effluents using non-ionic surfactants as solubilizers and extractants. <i>Bioresource Technology</i> , 2014 , 162, 259-65	11	11
74	Influence of the addition of Tween 20 on the phase behaviour of ionic liquids-based aqueous systems. <i>Journal of Chemical Thermodynamics</i> , 2014 , 79, 178-183	2.9	4
73	Environmentally Benign Sequential Extraction of Heavy Metals from Marine Sediments. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 8615-8620	3.9	22
72	Ionic liquids and non-ionic surfactants: a new marriage for aqueous segregation. <i>RSC Advances</i> , 2014 , 4, 32698	3.7	30
71	Structural/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
70	Ionic liquids improve the anticorrosion performance of Zn-rich coatings. <i>RSC Advances</i> , 2014 , 4, 59587-59593	3.7	11
69	Phase segregation in aqueous solutions of non-ionic surfactants using ammonium, magnesium and iron salts. <i>Journal of Chemical Thermodynamics</i> , 2014 , 70, 147-153	2.9	13
68	Novel physico-biological treatment for the remediation of textile dyes-containing industrial effluents. <i>Bioresource Technology</i> , 2013 , 146, 689-695	11	42
67	Unraveling the Impact of Chloride and Sulfate Ions Collection on Atmospheric Corrosion of Steel. <i>Corrosion</i> , 2013 , 69, 1217-1224	1.8	5
66	Probing the self-aggregation of ionic liquids in aqueous solutions using density and speed of sound data. <i>Journal of Chemical Thermodynamics</i> , 2013 , 59, 43-48	2.9	14
65	Study of thermodynamic and transport properties of phosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013 , 62, 98-103	2.9	38
64	Pesticide removal from aqueous solutions by adding salting out agents. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 20954-65	6.3	13
63	Sodium salt effect on aqueous solutions containing Tween 20 and Triton X-102. <i>Journal of Chemical Thermodynamics</i> , 2012 , 47, 62-67	2.9	40

62	On the Suitability of a Bacterial Consortium To Implement a Continuous PAHs Biodegradation Process in a Stirred Tank Bioreactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15895-15900	3.9	11
61	(Liquid+liquid) equilibrium of aqueous biphasic systems composed of 1-benzyl or 1-hexyl-3-methylimidazolium chloride ionic liquids and inorganic salts. <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 272-277	2.9	13
60	Triton X surfactants to form aqueous biphasic systems: Experiment and correlation. <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 385-392	2.9	28
59	On the phase behaviour of polyethoxylated sorbitan (Tween) surfactants in the presence of potassium inorganic salts. <i>Journal of Chemical Thermodynamics</i> , 2012 , 55, 151-158	2.9	28
58	Targeting the Production of Biomolecules by Extremophiles at Bioreactor Scale. <i>Chemical Engineering and Technology</i> , 2012 , 35, 1565-1575	2	17
57	On the double role of surfactants as microalga cell lysis agents and antioxidants extractants. <i>Green Chemistry</i> , 2012 , 14, 1044	10	55
56	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
55	On the Use of Ionic Liquids to Separate Aromatic Hydrocarbons from a Model Soil. <i>Separation Science and Technology</i> , 2012 , 47, 377-385	2.5	3
54	Mixtures of Pyridine and Nicotine with Pyridinium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4356-4363	2.8	11
53	Ionic liquid-based aqueous biphasic system for lipase extraction. <i>Green Chemistry</i> , 2011 , 13, 390-396	10	111
52	Thermophysical properties of two ionic liquids based on benzyl imidazolium cation. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 487-491	2.9	19
51	Impact of ionic liquids on extreme microbial biotypes from soil. <i>Green Chemistry</i> , 2011 , 13, 687	10	52
50	Sodium carbonate as phase promoter in aqueous solutions of imidazolium and pyridinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 1153-1158	2.9	58
49	Aqueous biphasic systems involving alkylsulfate-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 1565-1572	2.9	44
48	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, 8978-85	3.4	14
47	Phase equilibria of haloalkanes dissolved in ethylsulfate- or ethylsulfonate-based ionic liquids. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7329-37	3.4	23
46	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , 2010 , 291, 13-17	2.5	35
45	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , 2010 , 294, 49-53	2.5	33

44	An ionic liquid proposed as solvent in aromatic hydrocarbon separation by liquid extraction. <i>AICHE Journal</i> , 2009 , 56, NA-NA	3.6	15
43	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	14.7	41
42	Application of the ionic liquid Ammoeng 102 for aromatic/aliphatic hydrocarbon separation. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 951-956	2.9	65
41	Effect of temperature on the physical properties of two ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 1419-1423	2.9	96
40	Separation of Ethanol/Heptane Azeotropic Mixtures by Solvent Extraction with an Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1579-1585	3.9	62
39	Purification of hexane with effective extraction using ionic liquid as solvent. <i>Green Chemistry</i> , 2009 , 11, 346	10	45
38	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	2.8	41
37	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> , 2008 , 46, 162-174	1.5	28
36	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	2.5	60
35	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> , 2008 , 40, 1282-1289	2.9	40
34	Azeotrope-breaking using [BMIM] [MeSO ₄] ionic liquid in an extraction column. <i>Separation and Purification Technology</i> , 2008 , 62, 733-738	8.3	69
33	Toxicity and biodegradability of imidazolium ionic liquids. <i>Journal of Hazardous Materials</i> , 2008 , 151, 268-73	12.8	510
32	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	2.8	156
31	Experimental Liquid-Liquid Equilibria of 1-Alkyl-3-methylimidazolium Hexafluorophosphate with 1-Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1408-1412	2.8	26
30	Liquid-Liquid equilibria of 1,3-dimethylimidazolium methyl sulfate with ketones, dialkyl carbonates and acetates. <i>Fluid Phase Equilibria</i> , 2007 , 254, 150-157	2.5	28
29	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	2.9	197
28	Mixing properties of binary mixtures presenting azeotropes at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2007 , 39, 1219-1230	2.9	28
27	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> , 2007 , 39, 1608-1613	2.9	54

26	Co-solvent effects in LLE of 1-hydroxyethyl-3-methylimidazolium based ionic liquids+2-propanol+dichloromethane or 1,2-dichloroethane. <i>Fluid Phase Equilibria</i> , 2007 , 254, 35-41	2.5	30
25	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	2.9	95
24	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	2.8	34
23	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	2.8	97
22	Properties of ionic liquid HMIMPF ₆ with carbonates, ketones and alkyl acetates. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 651-661	2.9	115
21	Temperature Dependence of Physical Properties of Ionic Liquid 1,3-Dimethylimidazolium Methyl Sulfate. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 952-954	2.8	109
20	HMImPF ₆ ionic liquid that separates the azeotropic mixture ethanol + heptane. <i>Green Chemistry</i> , 2006 , 8, 307	10	89
19	Laccase activity from the fungus <i>Trametes hirsuta</i> using an air-lift bioreactor. <i>Letters in Applied Microbiology</i> , 2006 , 42, 612-6	2.9	42
18	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	2.9	23
17	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	2.8	12
16	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> , 2005 , 37, 249-257	2.9	17
15	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	2.5	11
14	Viscosities of dimethyl carbonate with alcohols at several temperatures: UNIFAC-VISCO interaction parameters (?OCO?/alcohol). <i>Fluid Phase Equilibria</i> , 2004 , 216, 167-174	2.5	45
13	Densities and Excess Molar Properties of Dimethyl Carbonate with Alkanes (C ₆ to C ₁₀) and VLE of Dimethyl Carbonate with Alkanes (C ₉ to C ₁₀) at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 86-93	2.8	28
12	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	2.8	62
11	Dynamic Viscosities of Diethyl Carbonate with Linear and Secondary Alcohols at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 157-162	2.8	35
10	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. <i>Journal of Chemical Thermodynamics</i> , 2003 , 35, 2021-2031	2.9	14
9	Physical properties of the binary mixtures (diethyl carbonate + hexane, heptane, octane and cyclohexane) from T=293.15 K to T=313.15 K. <i>Journal of Chemical Thermodynamics</i> , 2003 , 35, 1321-1333	2.9	62

8	Isobaric Phase Equilibria of Diethyl Carbonate with Five Alcohols at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 86-91	2.8	38
7	Viscosities of Dimethyl Carbonate or Diethyl Carbonate with Alkanes at Four Temperatures. New UNIFAC-ISCO Parameters. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 146-151	2.8	62
6	Isobaric Vapor-Liquid Equilibria and Excess Properties for the Binary Systems of Methyl Esters + Heptane. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 1183-1190	2.8	48
5	Isobaric Vapor-Liquid Equilibria of Diethyl Carbonate with Four Alkanes at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1098-1102	2.8	33
4	Density, Refractive Index, and Speed of Sound of Binary Mixtures (Diethyl Carbonate + Alcohols) at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 1506-1515	2.8	142
3	Variation of Densities, Refractive Indices, and Speeds of Sound with Temperature of Methanol or Ethanol with Hexane, Heptane, and Octane. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 1041-1047	2.8	81
2	Densities, Refractive Indices, and Derived Excess Properties of the System Methyl Acetate + Methanol + 2-Butanol at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 1121-1125	2.8	22
1	Mixing Properties of the System Methyl Acetate + Methanol + Ethanol at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 1446-1449	2.8	34