

Ana Rodriguez

List of Publications by Year in descending order

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115
papers

4,828
citations

87723

38
h-index

106150

65
g-index

115
all docs

115
docs citations

115
times ranked

3499
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxicity and biodegradability of imidazolium ionic liquids. <i>Journal of Hazardous Materials</i> , 2008, 151, 268-273.	6.5	585
2	Physical properties of ionic liquids based on 1-alkyl-3-methylimidazolium cation and hexafluorophosphate as anion and temperature dependence. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1168-1175.	1.0	219
3	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.	1.0	170
4	Physical Properties of 1-Butyl-3-methylimidazolium Methyl Sulfate as a Function of Temperature. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 377-380.	1.0	168
5	Properties of ionic liquid HMIMPF ₆ with carbonates, ketones and alkyl acetates. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 651-661.	1.0	124
6	Ionic liquid-based aqueous biphasic system for lipase extraction. <i>Green Chemistry</i> , 2011, 13, 390-396.	4.6	120
7	Temperature Dependence of Physical Properties of Ionic Liquid 1,3-Dimethylimidazolium Methyl Sulfate. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 952-954.	1.0	116
8	Effect of temperature on the physical properties of two ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 1419-1423.	1.0	111
9	Study on the phase behaviour and thermodynamic properties of ionic liquids containing imidazolium cation with ethanol at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 978-989.	1.0	110
10	Thermodynamic Properties of Ionic Liquids in Organic Solvents from (293.15 to 303.15) K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 600-608.	1.0	108
11	HMImPF ₆ ionic liquid that separates the azeotropic mixture ethanol + heptane. <i>Green Chemistry</i> , 2006, 8, 307.	4.6	92
12	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.	1.0	85
13	Azeotrope-breaking using [BMIM] [MeSO ₄] ionic liquid in an extraction column. <i>Separation and Purification Technology</i> , 2008, 62, 733-738.	3.9	75
14	Separation of Ethanol-Heptane Azeotropic Mixtures by Solvent Extraction with an Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1579-1585.	1.8	73
15	Viscosities of Dimethyl Carbonate or Diethyl Carbonate with Alkanes at Four Temperatures. New UNIFAC-VISCO Parameters. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 146-151.	1.0	70
16	Density, Viscosity, and Speed of Sound of Dialkyl Carbonates with Cyclopentane and Methyl Cyclohexane at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 1392-1399.	1.0	70
17	Application of the ionic liquid Ammoeng 102 for aromatic/aliphatic hydrocarbon separation. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 951-956.	1.0	69
18	Physical properties of the binary mixtures (diethyl carbonate+hexane, heptane, octane and)	1.0	67

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19	A study on the liquid-liquid equilibria of 1-alkyl-3-methylimidazolium hexafluorophosphate with ethanol and alkanes. <i>Fluid Phase Equilibria</i> , 2008, 270, 23-29.	1.4	65
20	On the double role of surfactants as microalga cell lysis agents and antioxidants extractants. <i>Green Chemistry</i> , 2012, 14, 1044.	4.6	62
21	Sodium carbonate as phase promoter in aqueous solutions of imidazolium and pyridinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1153-1158.	1.0	60
22	Ternary (liquid+liquid) equilibria of the azeotrope (ethyl acetate+2-propanol) with different ionic liquids at T=298.15K. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1608-1613.	1.0	58
23	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.	3.9	55
24	Impact of ionic liquids on extreme microbial biotypes from soil. <i>Green Chemistry</i> , 2011, 13, 687.	4.6	54
25	On the hunt for truly biocompatible ionic liquids for lipase-catalyzed reactions. <i>RSC Advances</i> , 2015, 5, 3386-3389.	1.7	54
26	Novel physico-biological treatment for the remediation of textile dyes-containing industrial effluents. <i>Bioresource Technology</i> , 2013, 146, 689-695.	4.8	52
27	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.	1.0	51
28	Viscosities of dimethyl carbonate with alcohols at several temperatures. <i>Fluid Phase Equilibria</i> , 2004, 216, 167-174.	1.4	49
29	Laccase activity from the fungus <i>Trametes hirsuta</i> using an air-lift bioreactor. <i>Letters in Applied Microbiology</i> , 2006, 42, 060316073800005.	1.0	49
30	Purification of hexane with effective extraction using ionic liquid as solvent. <i>Green Chemistry</i> , 2009, 11, 346.	4.6	49
31	Phase Equilibria of the Azeotropic Mixture Hexane + Ethyl Acetate with Ionic Liquids at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 1360-1366.	1.0	47
32	Aqueous biphasic systems involving alkylsulfate-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1565-1572.	1.0	46
33	Sodium salt effect on aqueous solutions containing Tween 20 and Triton X-102. <i>Journal of Chemical Thermodynamics</i> , 2012, 47, 62-67.	1.0	45
34	Measurement and correlation of (liquid+liquid) equilibrium of the azeotrope (cyclohexane+2-butanone) with different ionic liquids at T=298.15K. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1282-1289.	1.0	44
35	Dynamic Viscosities of Diethyl Carbonate with Linear and Secondary Alcohols at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 157-162.	1.0	42
36	Effective extraction in packed column of ethanol from the azeotropic mixture ethanol+hexane with an ionic liquid as solvent. <i>Chemical Engineering Journal</i> , 2009, 153, 80-85.	6.6	42

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37	Isobaric Phase Equilibria of Diethyl Carbonate with Five Alcohols at 101.3 kPa. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 86-91.	1.0	40
38	Ternary Liquid-Liquid Equilibria Ethanol + 2-Butanone + 1-Butyl-3-methylimidazolium Hexafluorophosphate, 2-Propanol + 2-Butanone + 1-Butyl-3-methylimidazolium Hexafluorophosphate, and 2-Butanone + 2-Propanol + 1,3-Dimethylimidazolium Methyl Sulfate at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 2138-2142.	1.0	40
39	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.	4.6	40
40	Study of thermodynamic and transport properties of phosphonium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 62, 98-103.	1.0	39
41	Mixing Properties of the System Methyl Acetate + Methanol + Ethanol at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1996, 41, 1446-1449.	1.0	38
42	A biocompatible stepping stone for the removal of emerging contaminants. <i>Separation and Purification Technology</i> , 2015, 153, 91-98.	3.9	38
43	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , 2010, 294, 49-53.	1.4	37
44	Triton X surfactants to form aqueous biphasic systems: Experiment and correlation. <i>Journal of Chemical Thermodynamics</i> , 2012, 54, 385-392.	1.0	37
45	Ionic liquids and non-ionic surfactants: a new marriage for aqueous segregation. <i>RSC Advances</i> , 2014, 4, 32698.	1.7	37
46	Alkylsulfate-based ionic liquids to separate azeotropic mixtures. <i>Fluid Phase Equilibria</i> , 2010, 291, 13-17.	1.4	36
47	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.	1.0	35
48	An ionic liquid proposed as solvent in aromatic hydrocarbon separation by liquid extraction. <i>AIChE Journal</i> , 2010, 56, 381-386.	1.8	35
49	Testing True Choline Ionic Liquid Biocompatibility from a Biotechnological Standpoint. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8302-8309.	3.2	34
50	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.	1.4	33
51	Liquid-liquid equilibria of 1,3-dimethylimidazolium methyl sulfate with ketones, dialkyl carbonates and acetates. <i>Fluid Phase Equilibria</i> , 2007, 254, 150-157.	1.4	32
52	Binary mixtures containing OMIM PF ₆ : density, speed of sound, refractive index and LLE with hexane, heptane and 2-propanol at several temperatures. <i>Physics and Chemistry of Liquids</i> , 2008, 46, 162-174.	0.4	32
53	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.	1.0	32
54	Scaling-up and ionic liquid-based extraction of pectinases from <i>Aspergillus flavipes</i> cultures. <i>Bioresource Technology</i> , 2017, 225, 326-335.	4.8	32

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55	New horizons in the enzymatic production of biodiesel using neoteric solvents. <i>Renewable Energy</i> , 2016, 98, 92-100.	4.3	30
56	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. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 86-93.	1.0	29
57	Dynamic viscosities of the ternary liquid mixtures (dimethyl carbonate+methanol+ethanol) and (dimethyl carbonate+methanol+hexane) at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 505-519.	1.0	29
58	Experimental Liquid-Liquid Equilibria of 1-Alkyl-3-methylimidazolium Hexafluorophosphate with 1-Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1408-1412.	1.0	29
59	Mixing properties of binary mixtures presenting azeotropes at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1219-1230.	1.0	29
60	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.	2.3	28
61	Environmentally Benign Sequential Extraction of Heavy Metals from Marine Sediments. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8615-8620.	1.8	27
62	Aqueous immiscibility of cholinium chloride ionic liquid and Triton surfactants. <i>Journal of Chemical Thermodynamics</i> , 2015, 91, 86-93.	1.0	27
63	Phase Equilibria of Haloalkanes Dissolved in Ethylsulfate- or Ethylsulfonate-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7329-7337.	1.2	24
64	Biorefining brewery spent grain polysaccharides through biotuning of ionic liquids. <i>Carbohydrate Polymers</i> , 2019, 203, 265-274.	5.1	24
65	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.	1.0	23
66	Targeting the Production of Biomolecules by Extremophiles at Bioreactor Scale. <i>Chemical Engineering and Technology</i> , 2012, 35, 1565-1575.	0.9	23
67	Unravelling the suitability of biological induction for halophilic lipase production by <i>Halomonas</i> sp. LM1C cultures. <i>Bioresource Technology</i> , 2017, 239, 368-377.	4.8	23
68	Thermophysical properties of two ionic liquids based on benzyl imidazolium cation. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 487-491.	1.0	22
69	VLE of the binary systems (dimethyl carbonate with 2-propanol or 2-butanol) and (diethyl carbonate) T_j ETQq1 1 0.784314 rgBT / Over	1.0	20
70	Microbial adaptation to ionic liquids. <i>RSC Advances</i> , 2015, 5, 17379-17382.	1.7	20
71	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.	1.3	19
72	(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.	1.0	17

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73	Contriving to selectively separate drugs with a hydrophilic ionic liquid. Separation and Purification Technology, 2017, 174, 29-38.	3.9	17
74	Salting out potential of cholinium dihydrogen citrate in aqueous solution of Triton surfactants. Journal of Chemical Thermodynamics, 2018, 118, 235-243.	1.0	17
75	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.	1.0	16
76	Pesticide Removal from Aqueous Solutions by Adding Salting Out Agents. International Journal of Molecular Sciences, 2013, 14, 20954-20965.	1.8	16
77	Recovery and reuse of ionic liquid cholinium glycinate in the treatment of brewery spent grain. Separation and Purification Technology, 2021, 254, 117651.	3.9	16
78	New Insight into Phase Equilibria Involving Imidazolium Bistriflamide Ionic Liquids and Their Mixtures with Alcohols and Water. Journal of Physical Chemistry B, 2010, 114, 8978-8985.	1.2	15
79	Densities, refractive indices and speeds of sound of the ternary mixtures (dimethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 T of Chemical Thermodynamics, 2003, 35, 2021-2031.	1.0	14
80	Phase segregation in aqueous solutions of non-ionic surfactants using ammonium, magnesium and iron salts. Journal of Chemical Thermodynamics, 2014, 70, 147-153.	1.0	14
81	Mixtures of Pyridine and Nicotine with Pyridinium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2011, 56, 4356-4363.	1.0	13
82	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.	1.8	13
83	Simultaneous biotreatment of Polycyclic Aromatic Hydrocarbons and dyes in a one-step bioreaction by an acclimated Pseudomonas strain. Bioresource Technology, 2015, 198, 181-188.	4.8	13
84	Aqueous two-phase systems containing imidazolium ionic liquids and a Tween surfactant. Journal of Chemical Thermodynamics, 2017, 105, 209-216.	1.0	13
85	Towards the use of eco-friendly solvents as adjuvants in remediation processes. Journal of Molecular Liquids, 2020, 305, 112824.	2.3	13
86	Measurement of the Isoobaric 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.	1.0	12
87	Ionic liquids improve the anticorrosion performance of Zn-rich coatings. RSC Advances, 2014, 4, 59587-59593.	1.7	12
88	Hybrid sequential treatment of aromatic hydrocarbon-polluted effluents using non-ionic surfactants as solubilizers and extractants. Bioresource Technology, 2014, 162, 259-265.	4.8	12
89	Surfactant-assisted disruption and extraction for carotenoid production from a novel Dunaliella strain. Separation and Purification Technology, 2019, 223, 243-249.	3.9	12
90	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.	1.4	11

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91	Ionic liquids for the concomitant use in extremophiles lysis and extremozymes extraction. <i>Bioresource Technology</i> , 2015, 186, 303-308.	4.8	10
92	Designing novel biocompatible oligopeptide-based ionic liquids for greener downstream processes. <i>Journal of Cleaner Production</i> , 2021, 279, 123356.	4.6	10
93	Non-ionic surfactants and ionic liquids are a suitable combination for aqueous two-phase systems. <i>Fluid Phase Equilibria</i> , 2019, 502, 112302.	1.4	9
94	Biocompatible amino acid-based ionic liquids for extracting hormones and antibiotics from swine effluents. <i>Separation and Purification Technology</i> , 2020, 250, 117068.	3.9	9
95	Choline dihydrogen phosphate-based deep eutectic solvent: A suitable bioplatfrom for lipase extraction. <i>Separation and Purification Technology</i> , 2021, 265, 118525.	3.9	9
96	Dual role of a natural deep eutectic solvent as lipase extractant and transesterification enhancer. <i>Journal of Cleaner Production</i> , 2022, 346, 131095.	4.6	8
97	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.	1.0	7
98	Microbial Adaptation to Ionic Liquids Increases the Ability to Treat Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1637-1642.	3.2	7
99	Potential of cholinium glycinate for the extraction of extremophilic lipolytic biocatalysts. <i>Separation and Purification Technology</i> , 2020, 248, 117008.	3.9	7
100	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.	3.9	7
101	On the Use of Ionic Liquids to Separate Aromatic Hydrocarbons from a Model Soil. <i>Separation Science and Technology</i> , 2012, 47, 377-385.	1.3	6
102	Unraveling the Impact of Chloride and Sulfate Ions Collection on Atmospheric Corrosion of Steel. <i>Corrosion</i> , 2013, 69, 1217-1224.	0.5	6
103	Suitability of dihydrogen phosphate anion to salt out cholinium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2019, 133, 143-150.	1.0	5
104	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.	1.0	4
105	Synthesis and characterization of a lipase-friendly DES based on cholinium dihydrogen phosphate. <i>Journal of Molecular Liquids</i> , 2021, 340, 117230.	2.3	4
106	An Inert Ionic Liquid-Based System for Ascertaining Electrolyte Diffusivity in Protective Coatings. <i>Corrosion</i> , 2015, 71, 259-266.	0.5	3
107	Demonstrating the viability of halolipase production at a mechanically stirred tank biological reactor. <i>Bioresource Technology</i> , 2018, 263, 334-339.	4.8	3
108	Liquid-liquid demixing of Tergitol solutions by sodium salts. <i>Journal of Chemical Thermodynamics</i> , 2018, 126, 111-118.	1.0	3

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109	Setting the Foundations of Aqueous Three-Phase Systems (A3PS) in the Quest for a Rational Design. ChemPhysChem, 2019, 20, 3311-3321.	1.0	3
110	Sketching a Suitable Immobilization Strategy for Ionic Liquid Removal in a Fixed-Bed Bioreactor. ACS Sustainable Chemistry and Engineering, 2019, 7, 4307-4314.	3.2	3
111	Ionic liquids for enzyme-catalyzed production of biodiesel. , 2020, , 31-47.		3
112	Effective lipase extraction: Designing a natural liquid support for immobilization. Separation and Purification Technology, 2021, 278, 119601.	3.9	3
113	Salting out Tergitol 15S-based surfactants for extremophilases separation. Journal of Molecular Liquids, 2022, 353, 118736.	2.3	2
114	Plotting a nature-friendly separation process for recovering volatile fatty acids. Journal of Molecular Liquids, 2020, 315, 113755.	2.3	1
115	Combining biodegradable surfactants and potassium inorganic salts for efficiently removing polycyclic aromatic hydrocarbons from aqueous effluents. Journal of Water Process Engineering, 2022, 47, 102796.	2.6	1