

Hector Rodriguez

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

68

papers

5,642

citations

36

h-index

74

g-index

74

ext. papers

6,010

ext. citations

5.4

avg, IF

5.7

L-index

#	Paper	IF	Citations
68	Acetone + 1-ethyl-3-methylimidazolium acetate phase diagram: A correlation challenge. <i>Fluid Phase Equilibria</i> , 2022 , 557, 113419	2.5	
67	Recovery of dialkylimidazolium-based ionic liquids from their mixtures with acetone or water by flash distillation. <i>Journal of Molecular Liquids</i> , 2022 , 346, 118292	6	
66	Ionic liquids in the pretreatment of lignocellulosic biomass. <i>Acta Innovations</i> , 2021 , 23-36	1.1	7
65	Tetrabutylphosphonium acetate and its eutectic mixtures with common-cation halides as solvents for carbon dioxide capture. <i>Chemical Engineering Journal</i> , 2021 , 409, 128191	14.7	2
64	AOT + Polyethylene Glycol Eutectics for Enhanced Oil Recovery. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8164	2.6	0
63	Solid-liquid phase behavior of mixtures of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amides involving long alkyl side chains. <i>Journal of Molecular Liquids</i> , 2021 , 339, 116805	6	
62	Recovery of the ionic liquids [C2mim][OAc] or [C2mim][SCN] by distillation from their binary mixtures with methanol or ethanol. <i>Separation and Purification Technology</i> , 2020 , 248, 117103	8.3	7
61	Improved Reactivity of Cellulose via Its Crystallinity Reduction by Nondissolving Pretreatment with an Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9164-9171	8.3	18
60	Potential impact on the recruitment of chemical engineering graduates due to the industrial internship. <i>Education for Chemical Engineers</i> , 2019 , 26, 107-113	2.4	6
59	Thermal behaviour of mixtures of 1-alkylpyridinium halides with and without a common ion. <i>Journal of Molecular Liquids</i> , 2018 , 268, 781-790	6	13
58	Efficiency of hydrophobic phosphonium ionic liquids and DMSO as recyclable cellulose dissolution and regeneration media. <i>RSC Advances</i> , 2017 , 7, 17451-17461	3.7	30
57	Mixtures of ionic liquids as more efficient media for cellulose dissolution. <i>Carbohydrate Polymers</i> , 2017 , 178, 277-285	10.3	42
56	Non-ideal behavior of ionic liquid mixtures to enhance CO ₂ capture. <i>Fluid Phase Equilibria</i> , 2017 , 450, 175-183	2.5	28
55	Eutectic mixtures of pyrrolidinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2016 , 408, 1-9	2.5	19
54	Thermophysical Characterization of the Mixtures of the Ionic Liquid 1-Ethyl-3-Methylimidazolium Acetate with 1-Propanol or 2-Propanol. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2299-2310	2.8	36
53	Ionic Liquids in the Context of Separation Processes. <i>Green Chemistry and Sustainable Technology</i> , 2016 , 1-9	1.1	2
52	Liquid-liquid equilibria of mutually immiscible ionic liquids with a common anion of basic character. <i>Journal of Chemical Thermodynamics</i> , 2016 , 102, 12-21	2.9	20

51	Properties modification by eutectic formation in mixtures of ionic liquids. <i>RSC Advances</i> , 2015 , 5, 22178-22187	18
50	Influence of Methanol on the Dissolution of Lignocellulose Biopolymers with the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9605-9614	22
49	Effect of Temperature on Salt Salt Aqueous Biphasic Systems: Manifestations of Upper Critical Solution Temperature. <i>Journal of Solution Chemistry</i> , 2015 , 44, 454-468	1.8 10
48	Extractive and oxidative-extractive desulfurization of fuels with ionic liquids. <i>Fuel</i> , 2014 , 117, 882-889	7.1 102
47	Improved concentration of citrus essential oil by solvent extraction with acetate ionic liquids. <i>Fluid Phase Equilibria</i> , 2014 , 361, 37-44	2.5 41
46	Dual functional ionic liquids as antimicrobials and plasticisers for medical grade PVCs. <i>RSC Advances</i> , 2014 , 4, 8567	3.7 22
45	Mixtures of Ethanol and the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate for the Fractionated Solubility of Biopolymers of Lignocellulosic Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11850-11861	3.9 48
44	Combined physical and chemical absorption of carbon dioxide in a mixture of ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014 , 77, 197-205	2.9 56
43	Carbon dioxide absorption in the ionic liquid 1-ethylpyridinium ethylsulfate and in its mixtures with another ionic liquid. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 18, 296-304	4.2 28
42	Absorption of Carbon Dioxide in Two Binary Mixtures of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5975-5984	3.9 91
41	Insight into the interactions that control the phase behaviour of new aqueous biphasic systems composed of polyethylene glycol polymers and ionic liquids. <i>Chemistry - A European Journal</i> , 2012 , 18, 1831-9	4.8 144
40	Direct preparation of sulfide semiconductor nanoparticles from the corresponding bulk powders in an ionic liquid. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1424-7	16.4 14
39	Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution. <i>Cellulose</i> , 2012 , 19, 425-433	5.5 72
38	Enhanced oil recovery using the ionic liquid trihexyl(tetradecyl)phosphonium chloride: phase behaviour and properties. <i>RSC Advances</i> , 2012 , 2, 9392	3.7 73
37	Alkylpyridinium Alkylsulfate Ionic Liquids as Solvents for the Deterpenation of Citrus Essential Oil. <i>Separation Science and Technology</i> , 2012 , 47, 292-299	2.5 18
36	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release. <i>Chemical Communications</i> , 2012 , 48, 5422-4	5.8 86
35	Liquid-liquid interfacial tension of equilibrated mixtures of ionic liquids and hydrocarbons. <i>Science China Chemistry</i> , 2012 , 55, 1519-1524	7.9 12
34	Direct Preparation of Sulfide Semiconductor Nanoparticles from the Corresponding Bulk Powders in an Ionic Liquid. <i>Angewandte Chemie</i> , 2012 , 124, 1453-1456	3.6 5

33	Reaction of elemental chalcogens with imidazolium acetates to yield imidazole-2-chalcogenones: direct evidence for ionic liquids as proto-carbenes. <i>Chemical Communications</i> , 2011 , 47, 3222-4	5.8	165
32	Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers. <i>Green Chemistry</i> , 2011 , 13, 1527	10	63
31	Addition of ammonia and/or oxygen to an ionic liquid for delignification of miscanthus. <i>Bioresource Technology</i> , 2011 , 102, 7946-52	11	21
30	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?. <i>Chemical Communications</i> , 2011 , 47, 1405-21	5.8	362
29	Demonstration of Chemisorption of Carbon Dioxide in 1,3-Dialkylimidazolium Acetate Ionic Liquids. <i>Angewandte Chemie</i> , 2011 , 123, 12230-12232	3.6	68
28	Demonstration of chemisorption of carbon dioxide in 1,3-dialkylimidazolium acetate ionic liquids. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12024-6	16.4	317
27	Deterpenation of Citrus Essential Oil by Liquid-Liquid Extraction with 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1273-1281	2.8	45
26	Comparison of Temperature Effects on the Salting Out of Poly(ethylene glycol) versus Poly(ethylene oxide)/Poly(propylene oxide) Random Copolymer. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2371-2379	3.9	10
25	Liquid mixtures of ionic liquids and polymers as solvent systems. <i>Fluid Phase Equilibria</i> , 2010 , 294, 7-14	2.5	54
24	Isomer effect in the separation of octane and xylenes using the ionic liquid 1-ethyl-3-methylimidazolium bis((trifluoromethyl)sulfonyl)amide. <i>Fluid Phase Equilibria</i> , 2010 , 294, 180-188	2.5	18
23	Liquid-Liquid equilibrium and interfacial tension of the ternary system heptane + thiophene + 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. <i>Fluid Phase Equilibria</i> , 2010 , 298, 240-245	2.5	51
22	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate. <i>Green Chemistry</i> , 2009 , 11, 646	10	817
21	Bis((trifluoromethyl)sulfonyl)amide ionic liquids as solvents for the extraction of aromatic hydrocarbons from their mixtures with alkanes: effect of the nature of the cation. <i>Green Chemistry</i> , 2009 , 11, 365-372	10	94
20	Biphasic liquid mixtures of ionic liquids and polyethylene glycols. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10916-22	3.6	66
19	Phase behaviour of trihexyl(tetradecyl)phosphonium chloride, nonane and water. <i>Green Chemistry</i> , 2009 , 11, 780	10	22
18	1-Ethyl-3-methylimidazolium bis((trifluoromethyl)sulfonyl)amide as solvent for the separation of aromatic and aliphatic hydrocarbons by liquid extraction - extension to C7- and C8-fractions. <i>Green Chemistry</i> , 2008 , 10, 1294	10	105
17	Ionic liquids for liquid-in-glass thermometers. <i>Green Chemistry</i> , 2008 , 10, 501	10	31
16	Ionic liquid-based preparation of cellulose-dendrimer films as solid supports for enzyme immobilization. <i>Biomacromolecules</i> , 2008 , 9, 381-7	6.9	82

15	Dual Nature of Polyethylene Glycol-Based Aqueous Biphasic Extraction Chromatographic (ABEC) Resins: Uptakes of Perchlorate versus Mercury(II). <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7390-7396	3.9	5
14	Heat Capacities and Excess Enthalpies of 1-Ethyl-3-methylimidazolium-Based Ionic Liquids and Water. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2112-2119	2.8	132
13	Application of mutually immiscible ionic liquids to the separation of aromatic and aliphatic hydrocarbons by liquid extraction: a preliminary approach. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2538-42	3.6	77
12	Ionic Liquids: Growth of a Field through the Eyes of the I&EC Division. <i>ACS Symposium Series</i> , 2008 , 389-400	4.0	40
11	Use of a green and cheap ionic liquid to purify gasoline octane boosters. <i>Green Chemistry</i> , 2007 , 9, 247-253	2.5	81
10	The third evolution of ionic liquids: active pharmaceutical ingredients. <i>New Journal of Chemistry</i> , 2007 , 31, 1429	3.6	665
9	Separation of aromatic hydrocarbons from alkanes using the ionic liquid 1-ethyl-3-methylimidazoliumbis((trifluoromethyl) sulfonyl)amide. <i>Green Chemistry</i> , 2007 , 9, 70-74	1.0	204
8	Phase equilibria of mixtures of mutually immiscible ionic liquids. <i>Fluid Phase Equilibria</i> , 2007 , 261, 427-433	2.5	61
7	Separation of benzene and hexane by solvent extraction with 1-alkyl-3-methylimidazolium bis((trifluoromethyl)sulfonyl)amide ionic liquids: effect of the alkyl-substituent length. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4732-6	3.4	184
6	Mutually immiscible ionic liquids. <i>Chemical Communications</i> , 2006 , 2548-50	5.8	99
5	Temperature and Composition Dependence of the Density and Viscosity of Binary Mixtures of Water + Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 2145-2155	2.8	411
4	Effect of anion fluorination in 1-ethyl-3-methylimidazolium as solvent for the liquid extraction of ethanol from ethyl tert-butyl ether. <i>Fluid Phase Equilibria</i> , 2006 , 242, 164-168	2.5	76
3	Purification of ethyl tert-butyl ether from its mixtures with ethanol by using an ionic liquid. <i>Chemical Engineering Journal</i> , 2006 , 115, 219-223	14.7	44
2	(Liquid+liquid) equilibrium of (dibutyl ether+methanol+water) at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2005 , 37, 1007-1012	2.9	8
1	Apparent Molar Volume, Isentropic Compressibility, Refractive Index, and Viscosity of DL-Alanine in Aqueous NaCl Solutions. <i>Journal of Solution Chemistry</i> , 2003 , 32, 53-63	1.8	109