

# Hector Rodriguez

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5481226/hector-rodriguez-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate. <i>Green Chemistry</i> , <b>2009</b> , 11, 646	10	817
67	The third evolution of ionic liquids: active pharmaceutical ingredients. <i>New Journal of Chemistry</i> , <b>2007</b> , 31, 1429	3.6	665
66	Temperature and Composition Dependence of the Density and Viscosity of Binary Mixtures of Water + Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 2145-2155	2.8	411
65	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?. <i>Chemical Communications</i> , <b>2011</b> , 47, 1405-21	5.8	362
64	Demonstration of chemisorption of carbon dioxide in 1,3-dialkylimidazolium acetate ionic liquids. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12024-6	16.4	317
63	Separation of aromatic hydrocarbons from alkanes using the ionic liquid 1-ethyl-3-methylimidazolium bis((trifluoromethyl) sulfonyl)amide. <i>Green Chemistry</i> , <b>2007</b> , 9, 70-74	10	204
62	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> , <b>2007</b> , 111, 4732-6	3.4	184
61	Reaction of elemental chalcogens with imidazolium acetates to yield imidazole-2-chalcogenones: direct evidence for ionic liquids as proto-carbenes. <i>Chemical Communications</i> , <b>2011</b> , 47, 3222-4	5.8	165
60	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> , <b>2012</b> , 18, 1831-9	4.8	144
59	Heat Capacities and Excess Enthalpies of 1-Ethyl-3-methylimidazolium-Based Ionic Liquids and Water. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 2112-2119	2.8	132
58	Apparent Molar Volume, Isentropic Compressibility, Refractive Index, and Viscosity of DL-Alanine in Aqueous NaCl Solutions. <i>Journal of Solution Chemistry</i> , <b>2003</b> , 32, 53-63	1.8	109
57	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> , <b>2008</b> , 10, 1294	10	105
56	Extractive and oxidative-extractive desulfurization of fuels with ionic liquids. <i>Fuel</i> , <b>2014</b> , 117, 882-889	7.1	102
55	Mutually immiscible ionic liquids. <i>Chemical Communications</i> , <b>2006</b> , 2548-50	5.8	99
54	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> , <b>2009</b> , 11, 365-372	10	94
53	Absorption of Carbon Dioxide in Two Binary Mixtures of Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5975-5984	3.9	91
52	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release. <i>Chemical Communications</i> , <b>2012</b> , 48, 5422-4	5.8	86

51	Ionic liquid-based preparation of cellulose-dendrimer films as solid supports for enzyme immobilization. <i>Biomacromolecules</i> , <b>2008</b> , 9, 381-7	6.9	82
50	Use of a green and cheap ionic liquid to purify gasoline octane boosters. <i>Green Chemistry</i> , <b>2007</b> , 9, 247-253		81
49	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> , <b>2008</b> , 10, 2538-42	3.6	77
48	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> , <b>2006</b> , 242, 164-168	2.5	76
47	Enhanced oil recovery using the ionic liquid trihexyl(tetradecyl)phosphonium chloride: phase behaviour and properties. <i>RSC Advances</i> , <b>2012</b> , 2, 9392	3.7	73
46	Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution. <i>Cellulose</i> , <b>2012</b> , 19, 425-433	5.5	72
45	Demonstration of Chemisorption of Carbon Dioxide in 1,3-Dialkylimidazolium Acetate Ionic Liquids. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12230-12232	3.6	68
44	Biphasic liquid mixtures of ionic liquids and polyethylene glycols. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 10916-22	3.6	66
43	Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers. <i>Green Chemistry</i> , <b>2011</b> , 13, 1527	10	63
42	Phase equilibria of mixtures of mutually immiscible ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 261, 427-433	5	61
41	Combined physical and chemical absorption of carbon dioxide in a mixture of ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 77, 197-205	2.9	56
40	Liquid mixtures of ionic liquids and polymers as solvent systems. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 294, 7-14	2.5	54
39	Liquid-liquid equilibrium and interfacial tension of the ternary system heptane + thiophene + 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 298, 240-245	2.5	51
38	Mixtures of Ethanol and the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate for the Fractionated Solubility of Biopolymers of Lignocellulosic Biomass. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 11850-11861	3.9	48
37	Deterpenation of Citrus Essential Oil by Liquid-liquid Extraction with 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 1273-1281	2.8	45
36	Purification of ethyl tert-butyl ether from its mixtures with ethanol by using an ionic liquid. <i>Chemical Engineering Journal</i> , <b>2006</b> , 115, 219-223	14.7	44
35	Mixtures of ionic liquids as more efficient media for cellulose dissolution. <i>Carbohydrate Polymers</i> , <b>2017</b> , 178, 277-285	10.3	42
34	Improved concentration of citrus essential oil by solvent extraction with acetate ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 361, 37-44	2.5	41

33	Thermophysical Characterization of the Mixtures of the Ionic Liquid 1-Ethyl-3-Methylimidazolium Acetate with 1-Propanol or 2-Propanol. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2299-2310 <sup>2.8</sup>	36
32	Ionic liquids for liquid-in-glass thermometers. <i>Green Chemistry</i> , <b>2008</b> , 10, 501	10 31
31	Efficiency of hydrophobic phosphonium ionic liquids and DMSO as recyclable cellulose dissolution and regeneration media. <i>RSC Advances</i> , <b>2017</b> , 7, 17451-17461	3.7 30
30	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> , <b>2013</b> , 18, 296-304	4.2 28
29	Non-ideal behavior of ionic liquid mixtures to enhance CO <sub>2</sub> capture. <i>Fluid Phase Equilibria</i> , <b>2017</b> , 450, 175-183	2.5 28
28	Dual functional ionic liquids as antimicrobials and plasticisers for medical grade PVCs. <i>RSC Advances</i> , <b>2014</b> , 4, 8567	3.7 22
27	Influence of Methanol on the Dissolution of Lignocellulose Biopolymers with the Ionic Liquid 1-Ethyl-3-methylimidazolium Acetate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9605-9614 <sup>3.9</sup>	22
26	Phase behaviour of trihexyl(tetradecyl)phosphonium chloride, nonane and water. <i>Green Chemistry</i> , <b>2009</b> , 11, 780	10 22
25	Addition of ammonia and/or oxygen to an ionic liquid for delignification of miscanthus. <i>Bioresource Technology</i> , <b>2011</b> , 102, 7946-52	11 21
24	Liquid-liquid equilibria of mutually immiscible ionic liquids with a common anion of basic character. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 102, 12-21	2.9 20
23	Eutectic mixtures of pyrrolidinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 408, 1-9	2.5 19
22	Improved Reactivity of Cellulose via Its Crystallinity Reduction by Nondissolving Pretreatment with an Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9164-9171	8.3 18
21	Properties modification by eutectic formation in mixtures of ionic liquids. <i>RSC Advances</i> , <b>2015</b> , 5, 22178-22187 <sup>3.7</sup>	18
20	Alkylpyridinium Alkylsulfate Ionic Liquids as Solvents for the Deterpenation of Citrus Essential Oil. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 292-299	2.5 18
19	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> , <b>2010</b> , 294, 180-188 <sup>2.5</sup>	18
18	Direct preparation of sulfide semiconductor nanoparticles from the corresponding bulk powders in an ionic liquid. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1424-7	16.4 14
17	Thermal behaviour of mixtures of 1-alkylpyridinium halides with and without a common ion. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 268, 781-790	6 13
16	Liquid-liquid interfacial tension of equilibrated mixtures of ionic liquids and hydrocarbons. <i>Science China Chemistry</i> , <b>2012</b> , 55, 1519-1524	7.9 12

15	Effect of Temperature on Salt-Salt Aqueous Biphasic Systems: Manifestations of Upper Critical Solution Temperature. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 454-468	1.8	10
14	Comparison of Temperature Effects on the Salting Out of Poly(ethylene glycol) versus Poly(ethylene oxide)/Poly(propylene oxide) Random Copolymer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2371-2379	3.9	10
13	(Liquid+liquid) equilibrium of (dibutyl ether+methanol+water) at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2005</b> , 37, 1007-1012	2.9	8
12	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> , <b>2020</b> , 248, 117103	8.3	7
11	Ionic liquids in the pretreatment of lignocellulosic biomass. <i>Acta Innovations</i> , <b>2021</b> , 23-36	1.1	7
10	Potential impact on the recruitment of chemical engineering graduates due to the industrial internship. <i>Education for Chemical Engineers</i> , <b>2019</b> , 26, 107-113	2.4	6
9	Direct Preparation of Sulfide Semiconductor Nanoparticles from the Corresponding Bulk Powders in an Ionic Liquid. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1453-1456	3.6	5
8	Dual Nature of Polyethylene Glycol-Based Aqueous Biphasic Extraction Chromatographic (ABEC) Resins: Uptakes of Perchlorate versus Mercury(II). <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 7390-7396	3.9	5
7	Ionic Liquids in the Context of Separation Processes. <i>Green Chemistry and Sustainable Technology</i> , <b>2016</b> , 1-9	1.1	2
6	Tetrabutylphosphonium acetate and its eutectic mixtures with common-cation halides as solvents for carbon dioxide capture. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128191	14.7	2
5	AOT + Polyethylene Glycol Eutectics for Enhanced Oil Recovery. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8164	2.6	0
4	Ionic Liquids: Growth of a Field through the Eyes of the I&EC Division. <i>ACS Symposium Series</i> , <b>2008</b> , 389-400		
3	Acetone + 1-ethyl-3-methylimidazolium acetate phase diagram: A correlation challenge. <i>Fluid Phase Equilibria</i> , <b>2022</b> , 557, 113419	2.5	
2	Recovery of dialkylimidazolium-based ionic liquids from their mixtures with acetone or water by flash distillation. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 346, 118292	6	
1	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> , <b>2021</b> , 339, 116805	6	