

# Hector Rodriguez

## List of Publications by Year in descending order

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69  
papers

6,345  
citations

101384

36  
h-index

95083

68  
g-index

74  
all docs

74  
docs citations

74  
times ranked

5794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate. <i>Green Chemistry</i> , 2009, 11, 646.	4.6	906
2	The third evolution of ionic liquids: active pharmaceutical ingredients. <i>New Journal of Chemistry</i> , 2007, 31, 1429.	1.4	766
3	Temperature and Composition Dependence of the Density and Viscosity of Binary Mixtures of Water + Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 2145-2155.	1.0	444
4	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?. <i>Chemical Communications</i> , 2011, 47, 1405-1421.	2.2	391
5	Demonstration of Chemisorption of Carbon Dioxide in 1,3-Dialkylimidazolium Acetate Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12024-12026.	7.2	349
6	Separation of aromatic hydrocarbons from alkanes using the ionic liquid 1-ethyl-3-methylimidazolium bis{(trifluoromethyl) sulfonyl}amide. <i>Green Chemistry</i> , 2007, 9, 70-74.	4.6	223
7	Separation of Benzene and Hexane by Solvent Extraction with 1-Alkyl-3-methylimidazolium Bis{(trifluoromethyl)sulfonyl}amide Ionic Liquids: A Effect of the Alkyl-Substituent Length. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4732-4736.	1.2	194
8	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.	2.2	176
9	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, 1831-1839.	1.7	157
10	Heat Capacities and Excess Enthalpies of 1-Ethyl-3-methylimidazolium-Based Ionic Liquids and Water. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 2112-2119.	1.0	143
11	Extractive and oxidative-extractive desulfurization of fuels with ionic liquids. <i>Fuel</i> , 2014, 117, 882-889.	3.4	124
12	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.	4.6	116
13	Title is missing!. <i>Journal of Solution Chemistry</i> , 2003, 32, 53-63.	0.6	114
14	Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution. <i>Cellulose</i> , 2012, 19, 425-433.	2.4	105
15	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.	4.6	104
16	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release. <i>Chemical Communications</i> , 2012, 48, 5422.	2.2	104
17	Mutually immiscible ionic liquids. <i>Chemical Communications</i> , 2006, , 2548-2550.	2.2	103
18	Absorption of Carbon Dioxide in Two Binary Mixtures of Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 5975-5984.	1.8	101

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19	Ionic Liquid-Based Preparation of Cellulose <sup>~</sup> Dendrimer Films as Solid Supports for Enzyme Immobilization. <i>Biomacromolecules</i> , 2008, 9, 381-387.	2.6	92
20	Use of a green and cheap ionic liquid to purify gasoline octane boosters. <i>Green Chemistry</i> , 2007, 9, 247-253.	4.6	91
21	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.	1.3	83
22	Enhanced oil recovery using the ionic liquid trihexyl(tetradecyl)phosphonium chloride: phase behaviour and properties. <i>RSC Advances</i> , 2012, 2, 9392.	1.7	81
23	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.	1.4	78
24	Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers. <i>Green Chemistry</i> , 2011, 13, 1527.	4.6	73
25	Biphasic liquid mixtures of ionic liquids and polyethylene glycols. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10916.	1.3	69
26	Combined physical and chemical absorption of carbon dioxide in a mixture of ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014, 77, 197-205.	1.0	65
27	Phase equilibria of mixtures of mutually immiscible ionic liquids. <i>Fluid Phase Equilibria</i> , 2007, 261, 427-433.	1.4	64
28	Liquid mixtures of ionic liquids and polymers as solvent systems. <i>Fluid Phase Equilibria</i> , 2010, 294, 7-14.	1.4	59
29	Mixtures of ionic liquids as more efficient media for cellulose dissolution. <i>Carbohydrate Polymers</i> , 2017, 178, 277-285.	5.1	58
30	Liquid <sup>~</sup> 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.	1.4	56
31	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> , 2014, 53, 11850-11861.	1.8	55
32	Improved concentration of citrus essential oil by solvent extraction with acetate ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 361, 37-44.	1.4	54
33	Deterpenation of Citrus Essential Oil by Liquid <sup>~</sup> Liquid Extraction with 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 1273-1281.	1.0	51
34	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.	6.6	47
35	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> , 2016, 61, 2299-2310.	1.0	43
36	Ionic liquids for liquid-in-glass thermometers. <i>Green Chemistry</i> , 2008, 10, 501.	4.6	37

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37	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.	2.3	36
38	Efficiency of hydrophobic phosphonium ionic liquids and DMSO as recyclable cellulose dissolution and regeneration media. <i>RSC Advances</i> , 2017, 7, 17451-17461.	1.7	36
39	Non-ideal behavior of ionic liquid mixtures to enhance CO <sub>2</sub> capture. <i>Fluid Phase Equilibria</i> , 2017, 450, 175-183.	1.4	36
40	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.	1.0	29
41	Dual functional ionic liquids as antimicrobials and plasticisers for medical grade PVCs. <i>RSC Advances</i> , 2014, 4, 8567.	1.7	26
42	Eutectic mixtures of pyrrolidinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2016, 408, 1-9.	1.4	26
43	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.	3.2	26
44	Alkylpyridinium Alkylsulfate Ionic Liquids as Solvents for the Deterpenation of Citrus Essential Oil. <i>Separation Science and Technology</i> , 2012, 47, 292-299.	1.3	23
45	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> , 2015, 54, 9605-9614.	1.8	23
46	Phase behaviour of trihexyl(tetradecyl)phosphonium chloride, nonane and water. <i>Green Chemistry</i> , 2009, 11, 780.	4.6	22
47	Addition of ammonia and/or oxygen to an ionic liquid for delignification of miscanthus. <i>Bioresource Technology</i> , 2011, 102, 7946-7952.	4.8	22
48	Properties modification by eutectic formation in mixtures of ionic liquids. <i>RSC Advances</i> , 2015, 5, 22178-22187.	1.7	21
49	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, 180-186.	1.4	20
50	Ionic liquids in the pretreatment of lignocellulosic biomass. <i>Acta Innovations</i> , 2021, , 23-36.	0.4	19
51	Liquid-liquid interfacial tension of equilibrated mixtures of ionic liquids and hydrocarbons. <i>Science China Chemistry</i> , 2012, 55, 1519-1524.	4.2	14
52	Direct Preparation of Sulfide Semiconductor Nanoparticles from the Corresponding Bulk Powders in an Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1424-1427.	7.2	14
53	Thermal behaviour of mixtures of 1-alkylpyridinium halides with and without a common ion. <i>Journal of Molecular Liquids</i> , 2018, 268, 781-790.	2.3	13
54	Comparison of Temperature Effects on the Salting Out of Poly(ethylene glycol) versus Poly(ethylene Terephthalate). <i>Journal of Applied Polymer Science</i> , 2010, 49, 2371-2379.	1.8	12

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55	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.	0.6	12
56	Potential impact on the recruitment of chemical engineering graduates due to the industrial internship. <i>Education for Chemical Engineers</i> , 2019, 26, 107-113.	2.8	12
57	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.	3.9	11
58	Tetrabutylphosphonium acetate and its eutectic mixtures with common-cation halides as solvents for carbon dioxide capture. <i>Chemical Engineering Journal</i> , 2021, 409, 128191.	6.6	11
59	(Liquid+liquid) equilibrium of (dibutyl ether+methanol+water) at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 1007-1012.	1.0	8
60	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> , 2008, 47, 7390-7396.	1.8	6
61	Acetone-ethyl-3-methylimidazolium acetate phase diagram: A correlation challenge. <i>Fluid Phase Equilibria</i> , 2022, 557, 113419.	1.4	4
62	Life Cycle Assessment (LCA) of Ionic Liquids. , 2019, , 1-9.		3
63	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.	2.3	3
64	AOT + Polyethylene Glycol Eutectics for Enhanced Oil Recovery. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8164.	1.3	2
65	EDITORIAL - SS&T Special Issue on Ionic Liquids for Separations. <i>Separation Science and Technology</i> , 2012, 47, 167-168.	1.3	1
66	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.	2.3	1
67	Ionic Liquids: Growth of a Field through the Eyes of the I&EC Division. <i>ACS Symposium Series</i> , 2008, , 389-400.	0.5	0
68	Conference report: Lake Constance turns green. <i>Green Chemistry</i> , 2009, 11, 604.	4.6	0
69	Liquid Systems Based on Tetra(n-butyl)phosphonium Acetate for the Non-dissolving Pretreatment of a Microcrystalline Cellulose (Avicel PH-101). <i>Biomacromolecules</i> , 2022, 23, 1970-1980.	2.6	0