

# Elena GÃ³mez

## List of Publications by Year in descending order

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88  
papers

3,923  
citations

101543

36  
h-index

128289

60  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Properties of Pure 1-Ethyl-3-methylimidazolium Ethylsulfate and Its Binary Mixtures with Ethanol and Water at Several Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 2096-2102.	1.9	340
2	Density, dynamic viscosity, and derived properties of binary mixtures of methanol or ethanol with water, ethyl acetate, and methyl acetate at T=(293.15, 298.15, and 303.15)K. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1578-1588.	2.0	314
3	Dynamic Viscosities of a Series of 1-Alkyl-3-methylimidazolium Chloride Ionic Liquids and Their Binary Mixtures with Water at Several Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 696-701.	1.9	288
4	Temperature Dependence and Structural Influence on the Thermophysical Properties of Eleven Commercial Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 2492-2504.	3.7	171
5	Vapor-Liquid Equilibria for the Ternary System Ethanol + Water + 1-Ethyl-3-methylimidazolium Ethylsulfate and the Corresponding Binary Systems Containing the Ionic Liquid at 101.3 kPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 820-825.	1.9	107
6	Vapor-Liquid Equilibria for the Ternary System Ethanol + Water + 1-Butyl-3-methylimidazolium Chloride and the Corresponding Binary Systems at 101.3 kPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 2178-2181.	1.9	103
7	Study of the behaviour of the azeotropic mixture ethanol-water with imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2007, 259, 51-56.	2.5	91
8	Physical and Excess Properties of Eight Binary Mixtures Containing Water and Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 2165-2176.	1.9	80
9	Physical properties of the ternary system (ethanol+water+1-butyl-3-methylimidazolium) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i> 2008, 40, 1274-1281.	2.0	77
10	Separation of benzene from alkanes using 1-ethyl-3-methylpyridinium ethylsulfate ionic liquid at several temperatures and atmospheric pressure: Effect of the size of the aliphatic hydrocarbons. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 104-109.	2.0	68
11	Thermal Analysis and Heat Capacities of 1-Alkyl-3-methylimidazolium Ionic Liquids with NTf <sub>2</sub> <sup>-</sup> , TFO <sup>-</sup> , and DCA <sup>-</sup> Anions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 2103-2110.	3.7	68
12	Solubility of Sugars and Sugar Alcohols in Ionic Liquids: Measurement and PC-SAFT Modeling. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9980-9995.	2.6	67
13	Thermophysical Properties of the Pure Ionic Liquid 1-Butyl-1-methylpyrrolidinium Dicyanamide and Its Binary Mixtures with Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 1440-1448.	1.9	66
14	Effect of the temperature on the physical properties of pure 1-propyl 3-methylimidazolium bis(trifluoromethylsulfonyl)imide and characterization of its binary mixtures with alcohols. <i>Journal of Chemical Thermodynamics</i> , 2012, 45, 9-15.	2.0	64
15	Excess molar properties of ternary system (ethanol+water+1,3-dimethylimidazolium methylsulphate) and its binary mixtures at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1208-1216.	2.0	59
16	Vapor-Liquid Equilibria for the Ternary System Ethanol + Water + 1-Butyl-3-methylimidazolium Methylsulfate and the Corresponding Binary Systems at 101.3 kPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1004-1008.	1.9	58
17	Osmotic coefficients of aqueous solutions of four ionic liquids at T=(313.15 and 333.15) K. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1346-1351.	2.0	57
18	Modeling thermodynamic properties of aqueous single-solute and multi-solute sugar solutions with PC-SAFT. <i>AIChE Journal</i> , 2013, 59, 4794-4805.	3.6	57

#	ARTICLE	IF	CITATIONS
19	Separation of binary mixtures aromatic+aliphatic using ionic liquids: Influence of the structure of the ionic liquid, aromatic and aliphatic. <i>Chemical Engineering Journal</i> , 2011, 175, 213-221.	12.7	55
20	Thermal analysis and heat capacities of pyridinium and imidazolium ionic liquids. <i>Thermochimica Acta</i> , 2013, 565, 178-182.	2.7	54
21	Experimental densities, refractive indices, and speeds of sound of 12 binary mixtures containing alkanes and aromatic compounds at T=313.15K. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 939-944.	2.0	52
22	Synthesis and temperature dependence of physical properties of four pyridinium-based ionic liquids: Influence of the size of the cation. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1324-1329.	2.0	52
23	Capacity of ionic liquids [EMim][NTf2] and [EMpy][NTf2] for extraction of toluene from mixtures with alkanes: Comparative study of the effect of the cation. <i>Fluid Phase Equilibria</i> , 2012, 315, 46-52.	2.5	52
24	Synthesis and Physical Properties of 1-Ethyl 3-methylpyridinium Ethylsulfate and Its Binary Mixtures with Ethanol and Water at Several Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 1824-1828.	1.9	51
25	Synthesis and Physical Properties of 1-Ethylpyridinium Ethylsulfate and its Binary Mixtures with Ethanol and 1-Propanol at Several Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1353-1358.	1.9	50
26	Experimental Determination, Correlation, and Prediction of Physical Properties of the Ternary Mixtures Ethanol + Water with 1-Octyl-3-methylimidazolium Chloride and 1-Ethyl-3-methylimidazolium Ethylsulfate. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 2529-2535.	1.9	48
27	Osmotic coefficients of binary mixtures of four ionic liquids with ethanol or water at T=(313.15 and) Tj ETQq1 1 0.784314 rgBT /Over	2.0	48
28	Experimental Vapor-Liquid Equilibria for the Ternary System Ethanol + Water + 1-Ethyl-3-methylpyridinium Ethylsulfate and the Corresponding Binary Systems at 101.3 kPa: Study of the Effect of the Cation. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 2786-2791.	1.9	48
29	Solubility of xylitol and sorbitol in ionic liquids – Experimental data and modeling. <i>Journal of Chemical Thermodynamics</i> , 2012, 55, 184-192.	2.0	47
30	Effect of the temperature on the physical properties of the pure ionic liquid 1-ethyl-3-methylimidazolium methylsulfate and characterization of its binary mixtures with alcohols. <i>Journal of Chemical Thermodynamics</i> , 2014, 74, 193-200.	2.0	44
31	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes and Aromatic Compounds at $T = 313.15$ K. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 1334-1339.	1.9	43
32	Separation of Benzene from Linear Alkanes (C <sub>6</sub> –C <sub>9</sub> ) Using 1-Ethyl-3-Methylimidazolium Ethylsulfate at $T = 298.15$ K. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 3422-3427.	1.9	43
33	Ionic liquids as solvents to separate the azeotropic mixture hexane/ethanol. <i>Fluid Phase Equilibria</i> , 2013, 337, 11-17.	2.5	43
34	Separation of benzene from alkanes by solvent extraction with 1-ethylpyridinium ethylsulfate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1234-1239.	2.0	40
35	Thermal behavior and heat capacities of pyrrolidinium-based ionic liquids by DSC. <i>Fluid Phase Equilibria</i> , 2018, 470, 51-59.	2.5	40
36	Toward Thermodynamic Predictions of Aqueous Vitamin Solubility: An Activity Coefficient-Based Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 7362-7369.	3.7	39

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37	Study of the Alkyl Chain Length on Laccase Stability and Enzymatic Kinetic with Imidazolium Ionic Liquids. Applied Biochemistry and Biotechnology, 2011, 164, 524-533.	2.9	38
38	Physicochemical Characterization of New Sulfate Ionic Liquids. Journal of Chemical & Engineering Data, 2011, 56, 14-20.	1.9	37
39	Effect of the number, position and length of alkyl chains on the physical properties of polysubstituted pyridinium ionic liquids. Journal of Chemical Thermodynamics, 2014, 69, 19-26.	2.0	36
40	Application of Pyrrolidinium-Based Ionic Liquid as Solvent for the Liquid Extraction of Benzene from Its Mixtures with Aliphatic Hydrocarbons. Industrial & Engineering Chemistry Research, 2015, 54, 1342-1349.	3.7	36
41	Acoustic, volumetric and osmotic properties of binary mixtures containing the ionic liquid 1-butyl-3-methylimidazolium dicyanamide mixed with primary and secondary alcohols. Journal of Chemical Thermodynamics, 2012, 50, 19-29.	2.0	35
42	Osmotic and apparent molar properties of binary mixtures alcohol+1-butyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid. Journal of Chemical Thermodynamics, 2013, 61, 64-73.	2.0	35
43	Physical properties of the ternary mixture ethanol+water+1-hexyl-3-methylimidazolium chloride at 298.15K. Physics and Chemistry of Liquids, 2006, 44, 409-417.	1.2	31
44	Application of [EMim][ESO4] ionic liquid as solvent in the extraction of toluene from cycloalkanes: Study of liquid-liquid equilibria at T=298.15K. Fluid Phase Equilibria, 2011, 303, 174-179.	2.5	31
45	Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions. Journal of Chemical Thermodynamics, 2013, 67, 5-12.	2.0	30
46	Osmotic coefficients of binary mixtures of 1-butyl-3-methylimidazolium methylsulfate and 1,3-dimethylimidazolium methylsulfate with alcohols at T=323.15K. Journal of Chemical Thermodynamics, 2009, 41, 617-622.	2.0	29
47	Separation of toluene from cyclic hydrocarbons using 1-butyl-3-methylimidazolium methylsulfate ionic liquid at T=298.15K and atmospheric pressure. Journal of Chemical Thermodynamics, 2011, 43, 705-710.	2.0	29
48	(Liquid + liquid) equilibria for the ternary mixtures (alkane + toluene + ionic liquid) at T= 298.15 K: Influence of the anion on the phase equilibria. Journal of Chemical Thermodynamics, 2012, 47, 402-407.	2.0	26
49	Physical Properties of Binary Alcohol+Ionic Liquid Mixtures at Several Temperatures and Atmospheric Pressure. Journal of Solution Chemistry, 2013, 42, 746-763.	1.2	26
50	Liquid-Liquid Equilibria of the Ternary Systems of Alkane + Aromatic + 1-Ethylpyridinium Ethylsulfate Ionic Liquid at T = (283.15 and 298.15) K. Journal of Chemical & Engineering Data, 2010, 55, 5169-5175.	1.9	24
51	Liquid-Liquid Extraction of Aromatic Compounds from Cycloalkanes Using 1-Butyl-3-methylimidazolium Methylsulfate Ionic Liquid. Journal of Chemical & Engineering Data, 2013, 58, 189-196.	1.9	24
52	Vapour pressures and osmotic coefficients of binary mixtures of 1-ethyl-3-methylimidazolium ethylsulfate and 1-ethyl-3-methylpyridinium ethylsulfate with alcohols at T=323.15K. Journal of Chemical Thermodynamics, 2009, 41, 1439-1445.	2.0	23
53	Application of the ionic liquid tributylmethylammonium bis(trifluoromethylsulfonyl)imide as solvent for the extraction of benzene from octane and decane at T=298.15K and atmospheric pressure. Fluid Phase Equilibria, 2016, 417, 137-143.	2.5	23
54	Effect of the relative humidity and isomeric structure on the physical properties of pyridinium based-ionic liquids. Journal of Chemical Thermodynamics, 2015, 86, 96-105.	2.0	22

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55	Study of the influence of the structure of the alcohol on vapor pressures and osmotic coefficients of binary mixtures alcohol+1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide at T=323.15K. Fluid Phase Equilibria, 2012, 313, 38-45.	2.5	21
56	Quaternary (liquid+liquid) equilibrium data for the extraction of toluene from alkanes using the ionic liquid [EMim][MSO4]. Journal of Chemical Thermodynamics, 2014, 76, 79-86.	2.0	20
57	Comparative study of the LLE of the quaternary and ternary systems involving benzene, n-octane, n-decane and the ionic liquid [BMpyr][NTf2]. Journal of Chemical Thermodynamics, 2016, 98, 56-61.	2.0	20
58	Vapour pressures, osmotic and activity coefficients for binary mixtures containing (1-ethylpyridinium) Tj ETQq0 0 0,rgBT /Overlock 10 TF	2.0	19
59	Determination and modelling of osmotic coefficients and vapour pressures of binary systems 1- and 2-propanol with CnMimNTf2 ionic liquids (n=2, 3, and 4) at T=323.15K. Journal of Chemical Thermodynamics, 2011, 43, 1256-1262.	2.0	19
60	Physicochemical Characterization of New Sulfonate and Sulfate Ammonium Ionic Liquids. Journal of Chemical & Engineering Data, 2012, 57, 241-248.	1.9	19
61	Stability and kinetic behavior of immobilized laccase from <i>Myceliophthora thermophila</i> in the presence of the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. Biotechnology Progress, 2014, 30, 790-796.	2.6	19
62	Experimental data, correlation and prediction of the extraction of benzene from cyclic hydrocarbons using [Epy][ESO4] ionic liquid. Fluid Phase Equilibria, 2014, 361, 83-92.	2.5	19
63	Partitioning of DNP-amino acids in ionic liquid/citrate salt based Aqueous Two-Phase System. Fluid Phase Equilibria, 2019, 484, 82-87.	2.5	19
64	Measurement and modeling of osmotic coefficients of binary mixtures (alcohol+1,3-dimethylpyridinium methylsulfate) at T=323.15K. Journal of Chemical Thermodynamics, 2011, 43, 908-913.	2.0	18
65	Solubility of drug-like molecules in pure organic solvents with the CPA EoS. Fluid Phase Equilibria, 2011, 303, 62-70.	2.5	17
66	Measurement and Correlation of Liquid-Liquid Equilibria for Ternary and Quaternary Systems of Heptane, Cyclohexane, Toluene, and [EMim][OAc] at 298.15 K. Industrial & Engineering Chemistry Research, 2014, 53, 9471-9477.	3.7	16
67	Osmotic coefficients and apparent molar volumes of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid in alcohols. Journal of Chemical Thermodynamics, 2014, 69, 93-100.	2.0	15
68	Phase equilibria of binary mixtures (ionic liquid+aromatic hydrocarbon): Effect of the structure of the components on the solubility. Fluid Phase Equilibria, 2013, 360, 416-422.	2.5	14
69	Thermal Behaviour of Pure Ionic Liquids. , 0, , .		13
70	(Liquid+liquid) equilibrium of ternary and quaternary systems containing heptane, cyclohexane, toluene and the ionic liquid [EMim][N(CN)2]. Experimental data and correlation. Journal of Chemical Thermodynamics, 2016, 94, 16-23.	2.0	12
71	Activity coefficients at infinite dilution for different alcohols and ketones in [EMpy][ESO4]: Experimental data and modeling with PC-SAFT. Fluid Phase Equilibria, 2016, 424, 32-40.	2.5	12
72	Solubility Enhancement of Vitamins in Water in the Presence of Covitamins: Measurements and ePC-SAFT Predictions. Industrial & Engineering Chemistry Research, 2019, 58, 21761-21771.	3.7	12

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73	Kinetic and Stability Study of the Peroxidase Inhibition in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 10810-10815.	3.7	11
74	Towards a predictive Cubic Plus Association equation of state. <i>Fluid Phase Equilibria</i> , 2021, 540, 113045.	2.5	11
75	Determination and correlation of (liquid+liquid) equilibria of ternary and quaternary systems with octane, decane, benzene and [BMpyr][DCA] at T=298.15K and atmospheric pressure. <i>Journal of Chemical Thermodynamics</i> , 2016, 94, 197-203.	2.0	10
76	Separation of Benzene from Heptane Using Three Ionic Liquids: BMimMSO <sub>4</sub> , BMimNTf <sub>2</sub> , and PMimNTf <sub>2</sub> . <i>Procedia Engineering</i> , 2012, 42, 1597-1605.	1.2	9
77	Partitioning of water-soluble vitamins in biodegradable aqueous two-phase systems: Electrolyte perturbed chain statistical associating fluid theory predictions and experimental validation. <i>AIChE Journal</i> , 2020, 66, e16984.	3.6	9
78	Solubility of DNP-amino acids and their partitioning in biodegradable ATPS: Experimental and ePC-SAFT modeling. <i>Fluid Phase Equilibria</i> , 2021, 527, 112830.	2.5	9
79	Ionic Liquids-Based Aqueous Biphasic Systems with Citrate Biodegradable Salts. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 1103-1108.	1.9	8
80	Experimental Determination, Correlation, and Prediction of Physical Properties of the Ternary Mixtures Ethanol and 1-Propanol + Water + 1-Ethyl-3-methylpyridinium Ethylsulfate at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 2229-2234.	1.9	6
81	Thermodynamic behavior of binary mixtures C <sub>n</sub> MpyNTf <sub>2</sub> ionic liquids with primary and secondary alcohols. <i>Thermochimica Acta</i> , 2012, 549, 49-56.	2.7	6
82	(Vapor + liquid) equilibria of alcohol + 1-methyl-1-propylpiperidinium triflate ionic liquid: VPO measurements and modeling. <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 183-190.	2.0	6
83	Separation of Benzene from Hexane Using 3-butyl-1-methylimidazolium Bis(trifluoromethylsulfonyl)imide as Entrainer: Liquid-Liquid Equilibrium Data, Process Simulation and Process Separation in a Packed Bed Column. <i>Procedia Engineering</i> , 2012, 42, 1606-1610.	1.2	5
84	Study of the suitability of two ammonium-based ionic liquids for the extraction of benzene from its mixtures with aliphatic hydrocarbons. <i>Fluid Phase Equilibria</i> , 2016, 426, 17-24.	2.5	5
85	Application of a group contribution equation of state to model the phase behavior of mixtures containing alkanes and ionic liquids. <i>Fluid Phase Equilibria</i> , 2015, 387, 32-37.	2.5	3
86	Activity and Osmotic Coefficients of Binary Mixtures of NTF <sub>2</sub> <sup>+</sup> Ionic Liquids with a Primary Alcohol. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 4123-4130.	1.9	1
87	Thermal Analysis of Binary Mixtures of Imidazolium, Pyridinium, Pyrrolidinium, and Piperidinium Ionic Liquids. <i>Molecules</i> , 2021, 26, 6383.	3.8	1
88	Equilibrium in Electrolyte Systems. , 2019, , 529-562.		0