Elena Gmez

List of Publications by Year in Descending Order

87 papers	3,414 citations	35 h-index	56 g-index
88 ext. papers	3,674 ext. citations	3 avg, IF	5.33 L-index

#	Paper	IF	Citations
87	Towards a predictive Cubic Plus Association equation of state. *Fluid Phase Equilibria*, **2021**, 540, 113045	2.5	2
86	Solubility of DNP-amino acids and their partitioning in biodegradable ATPS: Experimental and ePC-SAFT modeling. *Fluid Phase Equilibria*, **2021**, 527, 112830	2.5	4
85	Partitioning of water-soluble vitamins in biodegradable aqueous two-phase systems: Electrolyte perturbed-chain statistical associating fluid theory predictions and experimental validation. *AICHE Journal*, **2020**, 66, e16984	3.6	3
84	Toward Thermodynamic Predictions of Aqueous Vitamin Solubility: An Activity Coefficient-Based Approach. *Industrial & Engineering Chemistry Research*, **2019**, 58, 7362-7369	3.9	31
83	Solubility Enhancement of Vitamins in Water in the Presence of Covitamins: Measurements and ePC-SAFT Predictions. *Industrial & Engineering Chemistry Research*, **2019**, 58, 21761-21771	3.9	10
82	Equilibrium in Electrolyte Systems **2019**, 529-562		
81	Partitioning of DNP-amino acids in ionic liquid/citrate salt based Aqueous Two-Phase System. *Fluid Phase Equilibria*, **2019**, 484, 82-87	2.5	12
80	Thermal behavior and heat capacities of pyrrolidinium-based ionic liquids by DSC. *Fluid Phase Equilibria*, **2018**, 470, 51-59	2.5	24
79	Ionic Liquids-Based Aqueous Biphasic Systems with Citrate Biodegradable Salts. *Journal of Chemical & Engineering Data*, **2018**, 63, 1103-1108	2.8	6
78	Activity and Osmotic Coefficients of Binary Mixtures of NTf2□Ionic Liquids with a Primary Alcohol. *Journal of Chemical & Engineering Data*, **2016**, 61, 4123-4130	2.8	
77	Determination and correlation of (liquid + liquid) equilibria of ternary and quaternary systems with octane, decane, benzene and [BMpyr][DCA] at T = 298.15 K and atmospheric pressure. *Journal of Chemical Thermodynamics*, **2016**, 94, 197-203	2.9	8
76	Application of the ionic liquid tributylmethylammonium bis(trifluoromethylsulfonyl)imide as solvent for the extraction of benzene from octane and decane at T = 298.15 K and atmospheric pressure. *Fluid Phase Equilibria*, **2016**, 417, 137-143	2.5	15
75	(Vapor + liquid) equilibria of alcohol + 1-methyl-1-propylpiperidinium triflate ionic liquid: VPO measurements and modeling. *Journal of Chemical Thermodynamics*, **2016**, 97, 183-190	2.9	5
74	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	2.9	16
73	(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	2.9	11
72	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	8
71	Study of the suitability of two ammonium-based ionic liquids for the extraction of benzene from its mixtures with aliphatic hydrocarbons. *Fluid Phase Equilibria*, **2016**, 426, 17-24	2.5	3

70	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	2.9	14
69	Application of a group contribution equation of state to model the phase behavior of mixtures containing alkanes and ionic liquids. *Fluid Phase Equilibria*, **2015**, 387, 32-37	2.5	2
68	Thermal Behaviour of Pure Ionic Liquids **2015**,		7
67	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	3.9	31
66	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	2.9	31
65	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	3.9	14
64	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	2.9	18
63	Osmotic coefficients and apparent molar volumes of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid in alcohols. *Journal of Chemical Thermodynamics*, **2014**, 69, 93-100	2.9	13
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	15
61	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. *Journal of Chemical Thermodynamics*, **2014**, 74, 193-200	2.9	40
60	Stability and kinetic behavior of immobilized laccase from Myceliophthora thermophila in the presence of the ionic liquid 1-ethyl-3-methylimidazolium ethylsulfate. *Biotechnology Progress*, **2014**, 30, 790-6	2.8	11
59	Solubility of sugars and sugar alcohols in ionic liquids: measurement and PC-SAFT modeling. *Journal of Physical Chemistry B*, **2013**, 117, 9980-95	3.4	59
58	Thermal analysis and heat capacities of pyridinium and imidazolium ionic liquids. *Thermochimica Acta*, **2013**, 565, 178-182	2.9	43
57	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
56	Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions. *Journal of Chemical Thermodynamics*, **2013**, 67, 5-12	2.9	27
55	Modeling thermodynamic properties of aqueous single-solute and multi-solute sugar solutions with PC-SAFT. *AICHE Journal*, **2013**, 59, 4794-4805	3.6	49
54	Ionic liquids as solvents to separate the azeotropic mixture hexane/ethanol. *Fluid Phase Equilibria*, **2013**, 337, 11-17	2.5	40
53	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	2.8	19

52	Thermophysical Properties of the Pure Ionic Liquid 1-Butyl-1-methylpyrrolidinium Dicyanamide and Its Binary Mixtures with Alcohols. *Journal of Chemical & Engineering Data*, **2013**, 58, 1440-1448	2.8	53
51	Physical Properties of Binary Alcohol + Ionic Liquid Mixtures at Several Temperatures and Atmospheric Pressure. *Journal of Solution Chemistry*, **2013**, 42, 746-763	1.8	21
50	Osmotic and apparent molar properties of binary mixtures alcohol+1-butyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid. *Journal of Chemical Thermodynamics*, **2013**, 61, 64-73	2.9	31
49	Thermal Analysis and Heat Capacities of 1-Alkyl-3-methylimidazolium Ionic Liquids with NTf2, TFO, and DCA Anions. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2103-2110	3.9	59
48	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. *Journal of Chemical Thermodynamics*, **2012**, 45, 9-15	2.9	57
47	(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	2.9	22
46	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	2.9	29
45	Separation of Benzene from Heptane Using Tree Ionic Liquids: BMimMSO4, BMimNTf2, and PMimNTf2. *Procedia Engineering*, **2012**, 42, 1597-1605		9
44	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. *Procedia Engineering*, **2012**, 42, 1606-1610		4
43	Physical and Excess Properties of Eight Binary Mixtures Containing Water and Ionic Liquids. *Journal of Chemical & Engineering Data*, **2012**, 57, 2165-2176	2.8	66
42	Thermodynamic behavior of binary mixtures CnMpyNTf2 ionic liquids with primary and secondary alcohols. *Thermochimica Acta*, **2012**, 549, 49-56	2.9	6
41	Solubility of xylitol and sorbitol in ionic liquids Experimental data and modeling. *Journal of Chemical Thermodynamics*, **2012**, 55, 184-192	2.9	39
40	Physicochemical Characterization of New Sulfonate and Sulfate Ammonium Ionic Liquids. *Journal of Chemical & Engineering Data*, **2012**, 57, 241-248	2.8	15
39	Temperature Dependence and Structural Influence on the Thermophysical Properties of Eleven Commercial Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2012**, 51, 2492-2504	3.9	142
38	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
37	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. *Fluid Phase Equilibria*, **2012**, 315, 46-52	2.5	46
36	Physicochemical Characterization of New Sulfate Ionic Liquids. *Journal of Chemical & Engineering Data*, **2011**, 56, 14-20	2.8	35
35	Separation of binary mixtures aromatic + aliphatic using ionic liquids: Influence of the structure of the ionic liquid, aromatic and aliphatic. *Chemical Engineering Journal*, **2011**, 175, 213-221	14.7	50

34	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	2.9	16
33	Study of the alkyl chain length on laccase stability and enzymatic kinetic with imidazolium ionic liquids. *Applied Biochemistry and Biotechnology*, **2011**, 164, 524-33	3.2	34
32	Solubility of drug-like molecules in pure organic solvents with the CPA EoS. *Fluid Phase Equilibria*, **2011**, 303, 62-70	2.5	14
31	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	28
30	Separation of toluene from cyclic hydrocarbons using 1-butyl-3-methylimidazolium methylsulfate ionic liquid at T = 298.15 K and atmospheric pressure. *Journal of Chemical Thermodynamics*, **2011**, 43, 705-710	2.9	19
29	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 = 323.15 K. *Journal of Chemical Thermodynamics*, **2011**, 43, 1256-1262	2.9	18
28	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	2.8	22
27	Separation of Benzene from Linear Alkanes (C6□9) Using 1-Ethyl-3-Methylimidazolium Ethylsulfate at T = 298.15 K. *Journal of Chemical & Engineering Data*, **2010**, 55, 3422-3427	2.8	41
26	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. *Journal of Chemical & Engineering Data*, **2010**, 55, 2786-2791	2.8	40
25	Synthesis and temperature dependence of physical properties of four pyridinium-based ionic liquids: Influence of the size of the cation. *Journal of Chemical Thermodynamics*, **2010**, 42, 1324-1329	2.9	50
24	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. *Journal of Chemical Thermodynamics*, **2010**, 42, 104-109	2.9	68
23	Vapour pressures, osmotic and activity coefficients for binary mixtures containing (1-ethylpyridinium ethylsulfate + several alcohols) at T = 323.15 K. *Journal of Chemical Thermodynamics*, **2010**, 42, 625-630	2.9	18
22	Separation of benzene from alkanes by solvent extraction with 1-ethylpyridinium ethylsulfate ionic liquid. *Journal of Chemical Thermodynamics*, **2010**, 42, 1234-1239	2.9	37
21	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	2.9	26
20	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	2.9	19
19	Osmotic coefficients of binary mixtures of four ionic liquids with ethanol or water at T=(313.15 and 333.15)K. *Journal of Chemical Thermodynamics*, **2009**, 41, 11-16	2.9	47
18	Experimental densities, refractive indices, and speeds of sound of 12 binary mixtures containing alkanes and aromatic compounds at T=313.15K. *Journal of Chemical Thermodynamics*, **2009**, 41, 939-944	2.9	47
17	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. *Journal of Chemical & Engineering Data*, **2009**, 54, 2229-2234	2.8	5

16	Kinetic and Stability Study of the Peroxidase Inhibition in Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2009**, 48, 10810-10815	3.9	9
15	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes and Aromatic Compounds at T = 313.15 K. *Journal of Chemical & Engineering Data*, **2009**, 54, 1334-1339	2.8	36
14	Synthesis and Physical Properties of 1-Ethylpyridinium Ethylsulfate and its Binary Mixtures with Ethanol and 1-Propanol at Several Temperatures. *Journal of Chemical & Engineering Data*, **2009**, 54, 1353-1358	2.8	45
13	Vapor–liquid Equilibria for the Ternary System Ethanol + Water + 1-Butyl-3-methylimidazolium Methylsulfate and the Corresponding Binary Systems at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2009**, 54, 1004-1008	2.8	50
12	Synthesis and Physical Properties of 1-Ethyl 3-methylpyridinium Ethylsulfate and Its Binary Mixtures with Ethanol and Water at Several Temperatures. *Journal of Chemical & Engineering Data*, **2008**, 53, 1824-1828	2.8	48
11	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. *Journal of Chemical & Engineering Data*, **2008**, 53, 820-825	2.8	96
10	Osmotic coefficients of aqueous solutions of four ionic liquids at T=(313.15 and 333.15) K. *Journal of Chemical Thermodynamics*, **2008**, 40, 1346-1351	2.9	51
9	Physical properties of the ternary system (ethanol+water+1-butyl-3-methylimidazolium methylsulphate) and its binary mixtures at several temperatures. *Journal of Chemical Thermodynamics*, **2008**, 40, 1274-1281	2.9	71
8	Excess molar properties of ternary system (ethanol+water+1,3-dimethylimidazolium methylsulphate) and its binary mixtures at several temperatures. *Journal of Chemical Thermodynamics*, **2008**, 40, 1208-1216	2.9	53
7	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. *Journal of Chemical & Engineering Data*, **2007**, 52, 2529-2535	2.8	46
6	Study of the behaviour of the azeotropic mixture ethanol–water with imidazolium-based ionic liquids. *Fluid Phase Equilibria*, **2007**, 259, 51-56	2.5	82
5	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. *Journal of Chemical Thermodynamics*, **2007**, 39, 1578-1588	2.9	263
4	Physical properties of the ternary mixture ethanol + water + 1-hexyl-3-methylimidazolium chloride at 298.15 K. *Physics and Chemistry of Liquids*, **2006**, 44, 409-417	1.5	27
3	Vapor–liquid Equilibria for the Ternary System Ethanol + Water + 1-Butyl-3-methylimidazolium Chloride and the Corresponding Binary Systems at 101.3 kPa. *Journal of Chemical & Engineering Data*, **2006**, 51, 2178-2181	2.8	97
2	Physical Properties of Pure 1-Ethyl-3-methylimidazolium Ethylsulfate and Its Binary Mixtures with Ethanol and Water at Several Temperatures. *Journal of Chemical & Engineering Data*, **2006**, 51, 2096-2102	2.8	322
1	Dynamic Viscosities of a Series of 1-Alkyl-3-methylimidazolium Chloride Ionic Liquids and Their Binary Mixtures with Water at Several Temperatures. *Journal of Chemical & Engineering Data*, **2006**, 51, 696-701	2.8	259