

Noelia Calvar

List of Publications by Year in descending order

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82
papers

3,854
citations

81743

39
h-index

128067

60
g-index

83
all docs

83
docs citations

83
times ranked

2202
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 & Engineering Data</i> , 2006, 51, 2096-2102.	1.0	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.	1.0	314
3	Temperature Dependence and Structural Influence on the Thermophysical Properties of Eleven Commercial Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2492-2504.	1.8	171
4	Physical Properties of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethyl Sulfate with Several Alcohols at $T = (298.15, 313.15, \text{ and } 328.15) \text{ K}$ and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 1641-1648.	1.0	153
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 & Engineering Data</i> , 2008, 53, 820-825.	1.0	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 & Engineering Data</i> , 2006, 51, 2178-2181.	1.0	103
7	Esterification of acetic acid with ethanol: Reaction kinetics and operation in a packed bed reactive distillation column. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 1317-1323.	1.8	94
8	Study of the behaviour of the azeotropic mixture ethanol-water with imidazolium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2007, 259, 51-56.	1.4	91
9	(Liquid+liquid) equilibria for ternary mixtures of (alkane+benzene+[EMpy] [ESO4]) at several temperatures and atmospheric pressure. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 1215-1221.	1.0	85
10	Physical properties of the ternary system (ethanol+water+1-butyl-3-methylimidazolium) T_j ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (m) 2008, 40, 1274-1281.	1.0	77
11	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.	1.0	68
12	Thermal Analysis and Heat Capacities of 1-Alkyl-3-methylimidazolium Ionic Liquids with NTf_2^+ , TFO^+ , and DCA^+ Anions. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 2103-2110.	1.8	68
13	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.	1.0	64
14	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.	1.0	59
15	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 & Engineering Data</i> , 2009, 54, 1004-1008.	1.0	58
16	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.	1.0	57
17	Vapor-Liquid equilibria for the quaternary reactive system ethyl acetate+ethanol+water+acetic acid and some of the constituent binary systems at 101.3kPa. <i>Fluid Phase Equilibria</i> , 2005, 235, 215-222.	1.4	56
18	Liquid-Liquid Equilibrium for Ternary Mixtures of Hexane + Aromatic Compounds + [EMpy][ESO ₄] at $T = 298.15 \text{ K}$. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 633-638.	1.0	56

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19	Application of [HMim][NTf ₂], [HMim][TfO] and [BMim][TfO] ionic liquids on the extraction of toluene from alkanes: Effect of the anion and the alkyl chain length of the cation on the LLE. Journal of Chemical Thermodynamics, 2012, 53, 60-66.	1.0	56
20	Dynamic viscosities of binary mixtures of cycloalkanes with primary alcohols at T=(293.15, 298.15, and 313.15) K. Journal of Chemical Thermodynamics, 2010, 42, 322-334.	1.0	55
21	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.	6.6	55
22	Thermal analysis and heat capacities of pyridinium and imidazolium ionic liquids. Thermochimica Acta, 2013, 565, 178-182.	1.2	54
23	Density, Speed of Sound, and Refractive Index for Binary Mixtures Containing Cycloalkanes with o-Xylene, m-Xylene, p-Xylene, and Mesitylene at T = (298.15 and 313.15) K. Journal of Chemical & Engineering Data, 2010, 55, 2294-2305.	1.0	53
24	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.	1.0	52
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.	1.0	52
26	Capacity of ionic liquids [EMim][NTf ₂] and [EMpy][NTf ₂] for extraction of toluene from mixtures with alkanes: Comparative study of the effect of the cation. Fluid Phase Equilibria, 2012, 315, 46-52.	1.4	52
27	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.	1.0	51
28	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.	1.0	50
29	Density and Viscosity Experimental Data of the Ternary Mixtures 1-Propanol or 2-Propanol + Water + 1-Ethyl-3-methylimidazolium Ethylsulfate. Correlation and Prediction of Physical Properties of the Ternary Systems. Journal of Chemical & Engineering Data, 2008, 53, 881-887.	1.0	49
30	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.	1.0	48
31	Osmotic coefficients of binary mixtures of four ionic liquids with ethanol or water at T=(313.15 and 318.15) K. Journal of Chemical Thermodynamics, 2010, 42, 1324-1329.	1.0	48
32	Separation of toluene from alkanes using 1-ethyl-3-methylpyridinium ethylsulfate ionic liquid at T=298.15K and atmospheric pressure. Journal of Chemical Thermodynamics, 2010, 42, 752-757.	1.0	48
33	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.	1.0	48
34	Liquid Extraction of Benzene from Its Mixtures Using 1-Ethyl-3-methylimidazolium Ethylsulfate as a Solvent. Journal of Chemical & Engineering Data, 2010, 55, 4931-4936.	1.0	46
35	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.	1.0	43
36	Separation of Benzene from Linear Alkanes (C ₆ -C ₉) Using 1-Ethyl-3-Methylimidazolium Ethylsulfate at T = 298.15 K. Journal of Chemical & Engineering Data, 2010, 55, 3422-3427.	1.0	43

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37	Ionic liquids as solvents to separate the azeotropic mixture hexane/ethanol. <i>Fluid Phase Equilibria</i> , 2013, 337, 11-17.	1.4	43
38	Separation of benzene from alkanes by solvent extraction with 1-ethylpyridinium ethylsulfate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1234-1239.	1.0	40
39	Thermal behavior and heat capacities of pyrrolidinium-based ionic liquids by DSC. <i>Fluid Phase Equilibria</i> , 2018, 470, 51-59.	1.4	40
40	Measurement and correlation of liquid-liquid equilibria for ternary systems {cyclooctane+aromatic hydrocarbon+1-ethyl-3-methylpyridinium ethylsulfate} at T=298.15K and atmospheric pressure. <i>Fluid Phase Equilibria</i> , 2010, 291, 59-65.	1.4	39
41	Extraction of toluene from aliphatic compounds using an ionic liquid as solvent: Influence of the alkane on the (liquid+liquid) equilibrium. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 562-568.	1.0	39
42	Application of Pyrrolidinium-Based Ionic Liquid as Solvent for the Liquid Extraction of Benzene from Its Mixtures with Aliphatic Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1342-1349.	1.8	36
43	Acoustic, volumetric and osmotic properties of binary mixtures containing the ionic liquid 1-butyl-3-methylimidazolium dicyanamide mixed with primary and secondary alcohols. <i>Journal of Chemical Thermodynamics</i> , 2012, 50, 19-29.	1.0	35
44	Osmotic and apparent molar properties of binary mixtures alcohol+1-butyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2013, 61, 64-73.	1.0	35
45	Physical Properties of the Ternary Mixture Ethanol+Water+1-Butyl-3-Methylimidazolium Chloride at 298.15 K. <i>Journal of Solution Chemistry</i> , 2006, 35, 1217-1225.	0.6	34
46	Physical properties of the ternary mixture ethanol+water+1-hexyl-3-methylimidazolium chloride at 298.15 K. <i>Physics and Chemistry of Liquids</i> , 2006, 44, 409-417.	0.4	31
47	Application of [EMim][ESO4] ionic liquid as solvent in the extraction of toluene from cycloalkanes: Study of liquid-liquid equilibria at T=298.15K. <i>Fluid Phase Equilibria</i> , 2011, 303, 174-179.	1.4	31
48	Evaluation of ionic liquids as solvent for aromatic extraction: Experimental, correlation and COSMO-RS predictions. <i>Journal of Chemical Thermodynamics</i> , 2013, 67, 5-12.	1.0	30
49	Osmotic coefficients of binary mixtures of 1-butyl-3-methylimidazolium methylsulfate and 1,3-dimethylimidazolium methylsulfate with alcohols at T=323.15K. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 617-622.	1.0	29
50	Separation of toluene from cyclic hydrocarbons using 1-butyl-3-methylimidazolium methylsulfate ionic liquid at T=298.15K and atmospheric pressure. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 705-710.	1.0	29
51	Application of [EMpy][ESO4] ionic liquid as solvent for the liquid extraction of xylenes from hexane. <i>Fluid Phase Equilibria</i> , 2010, 295, 249-254.	1.4	27
52	(Liquid+liquid) equilibrium data for the ternary systems (cycloalkane+ethylbenzene+1-ethyl-3-methylimidazolium ethylsulfate) at T=298.15K and atmospheric pressure. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 725-730.	1.0	25
53	Liquid-Liquid Extraction of Aromatic Compounds from Cycloalkanes Using 1-Butyl-3-methylimidazolium Methylsulfate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 189-196.	1.0	24
54	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. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 1439-1445.	1.0	23

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55	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.	1.4	23
56	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.	1.4	21
57	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.	1.0	20
58	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.	1.0	20
59	Vapour pressures, osmotic and activity coefficients for binary mixtures containing (1-ethylpyridinium) Tj ETQq1 1 0,784314 rgBT /Ovele	1.0	19
60	Effect of the Chain Length on the Aromatic Ring in the Separation of Aromatic Compounds from Methylcyclohexane Using the Ionic Liquid 1-Ethyl-3-methylpyridinium Ethylsulfate. Journal of Chemical & Engineering Data, 2010, 55, 2289-2293.	1.0	19
61	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.	1.0	19
62	Physicochemical Characterization of New Sulfonate and Sulfate Ammonium Ionic Liquids. Journal of Chemical & Engineering Data, 2012, 57, 241-248.	1.0	19
63	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.	1.4	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.	1.0	18
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.	1.8	16
66	Osmotic coefficients and apparent molar volumes of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid in alcohols. Journal of Chemical Thermodynamics, 2014, 69, 93-100.	1.0	15
67	Study of [EMim][ESO4] ionic liquid as solvent in the liquid-liquid extraction of xylenes from their mixtures with hexane. Fluid Phase Equilibria, 2011, 305, 227-232.	1.4	14
68	Thermal Behaviour of Pure Ionic Liquids. , 0, , .		13
69	(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.	1.0	12
70	Osmotic coefficients of alcoholic mixtures containing BMpyrDCA: Experimental determination and correlation. Journal of Chemical Thermodynamics, 2014, 72, 9-15.	1.0	10
71	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. Journal of Chemical Thermodynamics, 2016, 94, 197-203.	1.0	10
72	Separation of Benzene from Heptane Using Tree Ionic Liquids: BMimMSO4, BMimNTf2, and PMimNTf2. Procedia Engineering, 2012, 42, 1597-1605.	1.2	9

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73	Vapour pressures and osmotic coefficients of binary mixtures containing alcohol and pyrrolidinium-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 66, 137-143.	1.0	9
74	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 & Engineering Data</i> , 2009, 54, 2229-2234.	1.0	6
75	Thermodynamic behavior of binary mixtures CnMpyNTf2 ionic liquids with primary and secondary alcohols. <i>Thermochimica Acta</i> , 2012, 549, 49-56.	1.2	6
76	(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.	1.0	6
77	Physical and Excess Properties for Binary Systems Containing an Alcohol and Ionic Liquid at T = 298.15K. <i>Procedia Engineering</i> , 2012, 42, 1383-1389.	1.2	5
78	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.	1.4	5
79	Modeling of Ionic Liquid Systems: Phase Equilibria and Physical Properties. , 2013, , .		4
80	Influence of the Structure of the Cation of Ionic Liquids on the Vapor Pressure and Osmotic Coefficients in their Binary Mixtures with 1-Propanol. <i>Procedia Engineering</i> , 2012, 42, 1053-1060.	1.2	2
81	Activity and Osmotic Coefficients of Binary Mixtures of NTF ₂ ⁺ Ionic Liquids with a Primary Alcohol. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 4123-4130.	1.0	1
82	Equilibrium in Electrolyte Systems. , 2019, , 529-562.		0