Luis Romani

List of Publications by Citations

58 papers	3,171 citations	29 h-index	56 g-index
61 ext. papers	3,308 ext. citations	3 avg, IF	4.91 L-index

#	Paper	IF	Citations
58	A detailed thermodynamic analysis of [C4mim][BF4] + water as a case study to model ionic liquid aqueous solutions. *Green Chemistry*, **2004**, 6, 369-381	10	311
57	Thermodynamic Properties of Imidazolium-Based Ionic Liquids: Densities, Heat Capacities, and Enthalpies of Fusion of [bmim][PF6] and [bmim][NTf2]. *Journal of Chemical & Engineering Data*, **2006**, 51, 1856-1859	2.8	240
56	Excess Magnitudes for Ionic Liquid Binary Mixtures with a Common Ion. *Journal of Chemical & Engineering Data*, **2007**, 52, 1369-1374	2.8	188
55	Viscosity-induced errors in the density determination of room temperature ionic liquids using vibrating tube densitometry. *Fluid Phase Equilibria*, **2007**, 252, 96-102	2.5	180
54	Excess enthalpy, density, and heat capacity for binary systems of alkylimidazolium-based ionic liquids + water. *Journal of Chemical Thermodynamics*, **2009**, 41, 161-166	2.9	162
53	Excess properties for binary systems ionic liquid+ethanol: Experimental results and theoretical description using the ERAS model. *Fluid Phase Equilibria*, **2008**, 274, 59-67	2.5	145
52	Isobaric thermal expansivity and thermophysical characterization of liquids and liquid mixtures. *Physical Chemistry Chemical Physics*, **2001**, 3, 5230-5236	3.6	145
51	Density and refractive index in mixtures of ionic liquids and organic solvents: Correlations and predictions. *Journal of Chemical Thermodynamics*, **2008**, 40, 949-956	2.9	120
50	Excess molar properties for binary systems of alkylimidazolium-based ionic liquids + nitromethane. Experimental results and ERAS-model calculations. *Journal of Chemical Thermodynamics*, **2009**, 41, 334-341	2.9	105
49	Viscosities for Ionic Liquid Binary Mixtures with a Common Ion. *Journal of Solution Chemistry*, **2008**, 37, 677-688	1.8	98
48	Experimental methodology for precise determination of density of RTILs as a function of temperature and pressure using vibrating tube densimeters. *Journal of Chemical Thermodynamics*, **2010**, 42, 553-563	2.9	96
47	Density and Refractive Index for Binary Systems of the Ionic Liquid [Bmim][BF4] with Methanol, 1,3-Dichloropropane, and Dimethyl Carbonate. *Journal of Solution Chemistry*, **2007**, 36, 1219-1230	1.8	83
46	Systematic Determination of Densities and Speeds of Sound of Nitroethane + Isomers of Butanol in the Range (283.15–308.15) K. *Journal of Chemical & Engineering Data*, **2000**, 45, 594-599	2.8	70
45	Excess Molar Volumes and Excess Molar Heat Capacities of Mixtures Containing (Mono and Poly)ethers + Ethyl Acetate. *Journal of Chemical & Engineering Data*, **1997**, 42, 1085-1089	2.8	61
44	Density and Heat Capacity as a Function of Temperature for Binary Mixtures of 1-Butyl-3-methylpyridinium Tetrafluoroborate + Water, + Ethanol, and + Nitromethane. *Journal of Chemical & Engineering Data*, **2007**, 52, 2261-2265	2.8	60
43	Effect of temperature on W-shaped excess molar heat capacities and volumetric properties: Oxaalkane-nonane systems. *International Journal of Thermophysics*, **1997**, 18, 761-777	2.1	57
42	Densities and Excess Enthalpies for Ionic Liquids + Ethanol or + Nitromethane. *Journal of Chemical & Engineering Data*, **2008**, 53, 1298-1301	2.8	54

41	Pressure and Temperature Dependence of Isobaric Heat Capacity for [Emim][BF4], [Bmim][BF4], [Hmim][BF4], and [Omim][BF4]. *Journal of Chemical & Engineering Data*, **2010**, 55, 600-604	2.8	53
40	Towards an understanding of the heat capacity of liquids. A simple two-state model for molecular association. *Journal of Chemical Physics*, **2004**, 120, 6648-59	3.9	53
39	Thermophysical Characterization of Liquids Using Precise Density and Isobaric Heat Capacity Measurements As a Function of Pressure. *Journal of Chemical & Engineering Data*, **2009**, 54, 904-915	2.8	49
38	Heat capacity of associated systems. Experimental data and application of a two-state model to pure liquids and mixtures. *Journal of Physical Chemistry B*, **2007**, 111, 1119-28	3.4	48
37	Molar excess heat capacities and volumes for mixtures of alkanoates with cyclohexane at 25°C. *Journal of Solution Chemistry*, **1986**, 15, 879-890	1.8	47
36	Temperature Dependence of the Excess Molar Heat Capacities for Alcohol−Alkane Mixtures. Experimental Testing of the Predictions from a Two-State Model. *Journal of Physical Chemistry B*, **2002**, 106, 185-191	3.4	46
35	Thermophysical Properties of the Binary Mixtures Diethyl Carbonate + (n-Dodecane or n-Tetradecane) at Several Temperatures. *Journal of Chemical & Engineering Data*, **2001**, 46, 212-216	2.8	45
34	Unusual Behavior of the Thermodynamic Response Functions of Ionic Liquids. *Journal of Physical Chemistry Letters*, **2010**, 1, 211-214	6.4	41
33	pTx Data for the Dimethyl Carbonate + Decane System. *Journal of Chemical & Engineering Data*, **2004**, 49, 923-927	2.8	34
32	Excess volumes and excess heat capacities for alkanediol+water systems in the temperature interval (283.15−313.15)K. *Fluid Phase Equilibria*, **2013**, 356, 1-10	2.5	31
31	On the isobaric thermal expansivity of liquids. *Journal of Chemical Physics*, **2011**, 134, 094502	3.9	31
30	Two ways of looking at Prigogine and Defay's equation. *Physical Chemistry Chemical Physics*, **2002**, 4, 2251-2259	3.6	31
29	Dependence against Temperature and Pressure of the Isobaric Thermal Expansivity of Room Temperature Ionic Liquids. *Journal of Chemical & Engineering Data*, **2010**, 55, 595-599	2.8	29
28	Isobaric Thermal Expansivity for Ionic Liquids with a Common Cation as a Function of Temperature and Pressure. *Journal of Chemical & Engineering Data*, **2010**, 55, 590-594	2.8	27
27	An accurate calibration method for high pressure vibrating tube densimeters in the density interval (700 to 1600) kg·m−3. *Journal of Chemical Thermodynamics*, **2009**, 41, 1060-1068	2.9	26
26	Temperature Dependence of Densities and Speeds of Sound of Nitromethane + Butanol Isomers in the Range (288.15−308.15) K. *Journal of Chemical & Engineering Data*, **2001**, 46, 312-316	2.8	25
25	Viscometric Study of (an Aliphatic Methyl Ester + Heptane or Nonane) at the Temperature 298.15 K. *Journal of Chemical & Engineering Data*, **1996**, 41, 825-830	2.8	25
24	New calibration methodology for calorimetric determination of isobaric thermal expansivity of liquids as a function of temperature and pressure. *Journal of Chemical Thermodynamics*, **2008**, 40, 1607-1611	2.9	23

23	Temperature dependence of the volumetric properties of binary mixtures containing oxaalkane + c-hexane. *Canadian Journal of Chemistry*, **1994**, 72, 454-462	0.9	23
22	Comparative study of the thermodynamic behaviour of the binary mixtures dimethyl carbonate + (benzene, n-heptane, cyclohexane, or toluene). *Canadian Journal of Chemistry*, **2002**, 80, 370-378	0.9	22
21	Group Definition in Molecular Solution Theories by Quantum Mechanical Methods:Application to 1-Alkanol +n-Alkane Mixtures. *Journal of Physical Chemistry B*, **2000**, 104, 11275-11282	3.4	22
20	Excess heat capacities of glyme[ndash]alkane mixtures Influence of the upper critical solution temperature. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 3505-3509		21
19	Heat Capacities, Densities, and Speeds of Sound for {(1,5-Dichloropentane or 1,6-Dichlorohexane) + Dodecane}. *Journal of Chemical & Engineering Data*, **2004**, 49, 333-338	2.8	21
18	Association effects in pure methanol via Monte Carlo simulations. I. Structure. *Journal of Chemical Physics*, **2013**, 138, 044509	3.9	18
17	Griffiths-Wheeler geometrical picture of critical phenomena: experimental testing for liquid-liquid critical points. *Physical Review E*, **2005**, 71, 021503	2.4	18
16	Hydrophobicity and thermodynamic response for aqueous solutions of amphiphiles. *Chemical Physics*, **2016**, 472, 36-43	2.3	18
15	Generality of hydrophobic phenomena for aqueous solutions of amphiphiles. *Chemical Physics Letters*, **2015**, 640, 184-187	2.5	17
14	Thermal properties of ionic systems near the liquid-liquid critical point. *Journal of Chemical Physics*, **2011**, 135, 214507	3.9	17
13	Quantum mechanical characterisation of functional groups for molecular solution theories using Bader fragments. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 3437-3443		17
12	Isobaric Thermal Expansivity for Nonpolar Compounds. *Journal of Chemical & Engineering Data*, **2010**, 55, 2173-2179	2.8	16
11	Densities, speeds of sound, and refractive indices of the ternary mixtures (toluene + methyl acetate + butyl acetate) and (toluene + methyl acetate + methyl heptanoate) at 298.15 K. *Journal of Chemical Thermodynamics*, **2007**, 39, 218-224	2.9	16
10	Isobaric thermal expansivity behaviour against temperature and pressure of associating fluids. *Journal of Chemical Thermodynamics*, **2010**, 42, 23-27	2.9	15
9	Thermodynamic consistency near the liquid-liquid critical point. *Journal of Chemical Physics*, **2009**, 130, 044506	3.9	14
8	Isobaric thermal expansivity of the binary system 1-hexanol+n-hexane as a function of temperature and pressure. *Fluid Phase Equilibria*, **2009**, 276, 1-6	2.5	14
7	Quantitative analysis of the W-shaped excess heat capacities of binary liquid mixtures in the light of the local composition concept. *Fluid Phase Equilibria*, **2005**, 235, 201-210	2.5	12
6	Thermal conductivity of ionic liquids under pressure. *Fluid Phase Equilibria*, **2020**, 515, 112573	2.5	9

5	Association effects in the {methanol + inert solvent} system via Monte Carlo simulations. I. Structure. *Journal of Chemical Physics*, **2013**, 138, 204505	3.9	5
4	Isobaric Thermal Expansivity of Highly Polar Nitrogen Compounds at Temperatures from (278.15 to 348.15) K and at Pressures from (5 to 55) MPa. *Journal of Chemical & Engineering Data*, **2010**, 55, 1537-1541	2.8	5
3	Heat capacity singularity of binary liquid mixtures at the liquid-liquid critical point. *Physical Review E* , **2013**, 88, 042107	2.4	4
2	Association effects in the {methanol + inert solvent} system via Monte Carlo simulations. II. Thermodynamics. *Journal of Chemical Physics*, **2013**, 138, 204506	3.9	4
1	Association effects in pure methanol via Monte Carlo simulations. II. Thermodynamics. *Journal of Chemical Physics*, **2013**, 138, 044510	3.9	2