

Jacobo Troncoso

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102
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107
ext. papers

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ext. citations

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L-index

#	Paper	IF	Citations
102	A detailed thermodynamic analysis of [C4mim][BF4] + water as a case study to model ionic liquid aqueous solutions. <i>Green Chemistry</i> , 2004 , 6, 369-381	10	311
101	Thermodynamic Properties of Imidazolium-Based Ionic Liquids: Densities, Heat Capacities, and Enthalpies of Fusion of [bmim][PF6] and [bmim][NTf2]. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1856-1859	2.8	240
100	Excess Magnitudes for Ionic Liquid Binary Mixtures with a Common Ion. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1369-1374	2.8	188
99	Viscosity-induced errors in the density determination of room temperature ionic liquids using vibrating tube densitometry. <i>Fluid Phase Equilibria</i> , 2007 , 252, 96-102	2.5	180
98	Excess enthalpy, density, and heat capacity for binary systems of alkylimidazolium-based ionic liquids + water. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 161-166	2.9	162
97	Excess properties for binary systems ionic liquid+ethanol: Experimental results and theoretical description using the ERAS model. <i>Fluid Phase Equilibria</i> , 2008 , 274, 59-67	2.5	145
96	Density and refractive index in mixtures of ionic liquids and organic solvents: Correlations and predictions. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 949-956	2.9	120
95	Excess molar properties for binary systems of alkylimidazolium-based ionic liquids + nitromethane. Experimental results and ERAS-model calculations. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 334-341	2.9	105
94	Viscosities for Ionic Liquid Binary Mixtures with a Common Ion. <i>Journal of Solution Chemistry</i> , 2008 , 37, 677-688	1.8	98
93	Experimental methodology for precise determination of density of RTILs as a function of temperature and pressure using vibrating tube densimeters. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 553-563	2.9	96
92	Thermal Stability of Ionic Liquids for Their Application as New Absorbents. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15718-15727	3.9	89
91	Density and Refractive Index for Binary Systems of the Ionic Liquid [Bmim][BF4] with Methanol, 1,3-Dichloropropane, and Dimethyl Carbonate. <i>Journal of Solution Chemistry</i> , 2007 , 36, 1219-1230	1.8	83
90	Density and viscosity of three (2,2,2-trifluoroethanol+1-butyl-3-methylimidazolium) ionic liquid binary systems. <i>Journal of Chemical Thermodynamics</i> , 2014 , 70, 101-110	2.9	80
89	Automated measuring device of (p, ρ T) data. <i>Fluid Phase Equilibria</i> , 2003 , 208, 141-154	2.5	79
88	Systematic Determination of Densities and Speeds of Sound of Nitroethane + Isomers of Butanol in the Range (283.15B08.15) K. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 594-599	2.8	70
87	Long-term thermal stability of five imidazolium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013 , 65, 184-190	2.9	66
86	Thermodynamic Properties of Dodecane + 1-Butanol and + 2-Butanol Systems. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1789-1793	2.8	63

85	Density and Heat Capacity as a Function of Temperature for Binary Mixtures of 1-Butyl-3-methylpyridinium Tetrafluoroborate + Water, + Ethanol, and + Nitromethane. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2261-2265	2.8	60
84	Densities and Excess Enthalpies for Ionic Liquids + Ethanol or + Nitromethane. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1298-1301	2.8	54
83	Pressure and Temperature Dependence of Isobaric Heat Capacity for [Emim][BF ₄], [Bmim][BF ₄], [Hmim][BF ₄], and [Omim][BF ₄]. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 600-604	2.8	53
82	Thermophysical Characterization of Liquids Using Precise Density and Isobaric Heat Capacity Measurements As a Function of Pressure. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 904-915	2.8	49
81	Heat capacity of associated systems. Experimental data and application of a two-state model to pure liquids and mixtures. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 1119-28	3.4	48
80	Unusual Behavior of the Thermodynamic Response Functions of Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 211-214	6.4	41
79	Excess volumes and excess heat capacities of nitromethane+(1-propanol or 2-propanol). <i>Fluid Phase Equilibria</i> , 1999 , 157, 93-102	2.5	41
78	Long-term thermal stability of some 1-butyl-1-methylpyrrolidinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014 , 74, 51-57	2.9	40
77	Heat capacity and thermal expansion anomalies in the nitromethane-1-butanol mixture near its upper critical point. <i>Physical Review E</i> , 2002 , 66, 031507	2.4	40
76	ρ^{ex} Data for the Dimethyl Carbonate + Decane System. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 923-927	2.8	34
75	Excess volumes and excess heat capacities for alkanediol+water systems in the temperature interval (283.15-313.15)K. <i>Fluid Phase Equilibria</i> , 2013 , 356, 1-10	2.5	31
74	On the isobaric thermal expansivity of liquids. <i>Journal of Chemical Physics</i> , 2011 , 134, 094502	3.9	31
73	Two ways of looking at Prigogine and Defay's equation. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2251-2259	3.6	31
72	Thermodynamic behaviour of the binary systems dimethyl carbonate+n-octane or n-nonane. <i>Thermochimica Acta</i> , 2005 , 433, 128-133	2.9	30
71	Excess isobaric molar heat capacities and excess molar volumes for ethanol + n-decane and n-undecane systems. <i>Journal of Chemical Thermodynamics</i> , 2005 , 37, 935-940	2.9	30
70	Thermal stability of aprotic ionic liquids as potential lubricants. Comparison with synthetic oil bases. <i>Journal of Chemical Thermodynamics</i> , 2018 , 116, 185-196	2.9	29
69	Dependence against Temperature and Pressure of the Isobaric Thermal Expansivity of Room Temperature Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 595-599	2.8	29
68	Isobaric Thermal Expansivity for Ionic Liquids with a Common Cation as a Function of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 590-594	2.8	27

67	An accurate calibration method for high pressure vibrating tube densimeters in the density interval (700 to 1600) kg m ⁻³ . <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 1060-1068	2.9	26
66	Temperature Dependence of Densities and Speeds of Sound of Nitromethane + Butanol Isomers in the Range (288.15B08.15) K. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 312-316	2.8	25
65	Highly precise experimental device for determining the heat capacity of liquids under pressure. <i>Review of Scientific Instruments</i> , 2007 , 78, 055103	1.7	24
64	New calibration methodology for calorimetric determination of isobaric thermal expansivity of liquids as a function of temperature and pressure. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 1607-1611	2.9	23
63	Heat Capacities, Densities, and Speeds of Sound for {(1,5-Dichloropentane or 1,6-Dichlorohexane) + Dodecane}. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 333-338	2.8	21
62	Study of the volumetric properties of weakly associated alcohols by means of high-pressure speed of sound measurements. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 893-899	2.9	20
61	Behavior of the Environmentally Compatible Absorbent 1-Butyl-3-methylimidazolium Tetrafluoroborate with 2,2,2-Trifluoroethanol: Experimental Densities at High Pressures and Modeling of PVT and Phase Equilibria Behavior with PC-SAFT EoS. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 4065-4076	3.9	19
60	Solution thermodynamics near the liquid-liquid critical point. <i>Fluid Phase Equilibria</i> , 2007 , 258, 7-15	2.5	19
59	Anomalous Excess Heat Capacities of Ethanol + Alkane Mixtures. <i>International Journal of Thermophysics</i> , 2004 , 25, 787-803	2.1	19
58	Speed of sound in ionic liquids with a common ion as a function of pressure and temperature. <i>Journal of Chemical Thermodynamics</i> , 2018 , 116, 235-240	2.9	18
57	Thermal refraction in ionic liquids induced by a train of femtosecond laser pulses. <i>Optics and Laser Technology</i> , 2014 , 61, 1-7	4.2	18
56	Highly precise (liquid+liquid) equilibrium and heat capacity measurements near the critical point for [Bmim][BF4]+1H, 1H, 2H, 2H perfluorooctanol. <i>Journal of Chemical Thermodynamics</i> , 2013 , 65, 131-137	2.9	18
55	Estimation of critical amplitudes of the correlation length by means of calorimetric and viscosimetric measurements. <i>Chemical Physics</i> , 2006 , 324, 483-488	2.3	18
54	Griffiths-Wheeler geometrical picture of critical phenomena: experimental testing for liquid-liquid critical points. <i>Physical Review E</i> , 2005 , 71, 021503	2.4	18
53	Hydrophobicity and thermodynamic response for aqueous solutions of amphiphiles. <i>Chemical Physics</i> , 2016 , 472, 36-43	2.3	18
52	Generality of hydrophobic phenomena for aqueous solutions of amphiphiles. <i>Chemical Physics Letters</i> , 2015 , 640, 184-187	2.5	17
51	Excess molar volumes and excess molar enthalpies in binary systems N-alkyl-triethylammonium bis(trifluoromethylsulfonyl)imide+methanol. <i>Fluid Phase Equilibria</i> , 2014 , 363, 156-166	2.5	17
50	Fully automatized apparatus for determining speed of sound for liquids in the temperature and pressure interval (283.15B43.15) K and (0.1B5) MPa. <i>Journal of Chemical Thermodynamics</i> , 2017 , 104, 102-109	2.9	17

49	Thermal properties of ionic systems near the liquid-liquid critical point. <i>Journal of Chemical Physics</i> , 2011 , 135, 214507	3.9	17
48	Isobaric Thermal Expansivity for Nonpolar Compounds. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2173-2179	2.8	16
47	Isobaric thermal expansivity behaviour against temperature and pressure of associating fluids. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 23-27	2.9	15
46	Effect of Molecular Structure on the Thermodynamics of Nitromethane+Butanol Isomers Near the Upper Critical Point. <i>International Journal of Thermophysics</i> , 2000 , 21, 1419-1437	2.1	15
45	Volumetric behaviour of the (2,2,4-trimethylpentane+methylbenzene+butan-1-ol) ternary system and its binary sub-systems within the temperature range (298.15-328.15)K. <i>Journal of Chemical Thermodynamics</i> , 2013 , 64, 137-150	2.9	14
44	Thermodynamic consistency near the liquid-liquid critical point. <i>Journal of Chemical Physics</i> , 2009 , 130, 044506	3.9	14
43	Isobaric thermal expansivity of the binary system 1-hexanol+n-hexane as a function of temperature and pressure. <i>Fluid Phase Equilibria</i> , 2009 , 276, 1-6	2.5	14
42	Dynamic light scattering study of aggregation in aqueous solutions of five amphiphiles. <i>Journal of Molecular Liquids</i> , 2017 , 241, 525-529	6	13
41	Density and viscosity study of pyridinium based ionic liquids as potential absorbents for natural refrigerants: Experimental and modelling. <i>Fluid Phase Equilibria</i> , 2015 , 405, 37-45	2.5	13
40	Structural and physical properties of a new reversible and continuous thermochromic ionic liquid in a wide temperature interval: [BMIM]4[Ni(NCS)6]. <i>New Journal of Chemistry</i> , 2018 , 42, 15561-15571	3.6	13
39	Criticality of the [C4mim][BF4] + Water System. <i>ACS Symposium Series</i> , 2005 , 175-186	0.4	13
38	Quantitative analysis of the W-shaped excess heat capacities of binary liquid mixtures in the light of the local composition concept. <i>Fluid Phase Equilibria</i> , 2005 , 235, 201-210	2.5	12
37	Thermophysical properties of choline and pyridinium based ionic liquids as advanced materials for energy applications. <i>Journal of Chemical Thermodynamics</i> , 2020 , 141, 105947	2.9	12
36	Studies of Volumetric and Transport Properties of Ionic Liquid/Water Mixtures and Its Viability To Be Used in Absorption Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5068-5077	8.3	11
35	Thermodynamic Properties of Dichloromethane, Bromochloromethane, and Dibromomethane under Elevated Pressure: Experimental Results and SAFT-VR Mie Predictions. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 720-730	3.9	11
34	Dependence on molecular parameters of the heat capacity critical behaviour for nitroalkane + alcohol binary systems. <i>Chemical Physics</i> , 2009 , 358, 225-229	2.3	11
33	Determination of the critical anomaly in the viscosity for the dimethyl carbonate+(undecane or dodecane) systems. <i>Fluid Phase Equilibria</i> , 2006 , 249, 42-48	2.5	11
32	Nonlinear absorption in ionic liquids with transition metallic atoms in the anion. <i>Optical Materials</i> , 2016 , 52, 144-149	3.3	10

31	Water's two-critical-point scenario in the Ising paradigm. <i>Journal of Chemical Physics</i> , 2019 , 150, 244509	3.9	10
30	Isobaric molar heat capacities of the ternary system dimethyl carbonate+p-xylene+n-decane. <i>Fluid Phase Equilibria</i> , 2005 , 232, 207-213	2.5	10
29	Thermal conductivity of ionic liquids under pressure. <i>Fluid Phase Equilibria</i> , 2020 , 515, 112573	2.5	9
28	Isobaric heat capacity of nanostructured liquids with potential use as lubricants. <i>Journal of Chemical Thermodynamics</i> , 2018 , 123, 107-116	2.9	9
27	Heat capacity anomalies of associated liquid-alkane mixtures near the liquid-liquid critical point. <i>Chemical Physics</i> , 2009 , 360, 106-109	2.3	9
26	The critical behavior of the dielectric constant in the polar + polar binary liquid mixture nitromethane + 3-pentanol: an unusual sign of its critical amplitude in the one-phase region. <i>Journal of Chemical Physics</i> , 2011 , 135, 024508	3.9	8
25	Influence of chemical structure on critical parameters for dimethyl carbonate+alkane systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007 , 89, 25-29	4.1	8
24	Viscosity anomaly near the critical point in nitrobenzene + alkane binary systems. <i>Physical Review E</i> , 2005 , 71, 041503	2.4	8
23	Speed of sound as a function of temperature and pressure for propane derivatives. <i>Journal of Chemical Thermodynamics</i> , 2017 , 109, 117-123	2.9	7
22	Synthesis, microstructure and volumetry of novel metal thiocyanate ionic liquids with [BMIM] cation. <i>Journal of Molecular Liquids</i> , 2019 , 283, 638-651	6	7
21	Evidence of current stabilization after long-time decay in high-TC superconductors. <i>Cryogenics</i> , 2005 , 45, 135-140	1.8	7
20	Volumetric behavior of the ternary system (methyl tert-butyl ether + methylbenzene + butan-1-ol) and its binary sub-system (methyl tert-butyl ether + butan-1-ol) within the temperature range (298.15 to 328.15) K. <i>Journal of Chemical Thermodynamics</i> , 2015 , 90, 59-70	2.9	6
19	The isobaric heat capacity of liquid water at low temperatures and high pressures. <i>Journal of Chemical Physics</i> , 2017 , 147, 084501	3.9	6
18	The temperature of maximum density for amino acid aqueous solutions. An experimental and molecular dynamics study. <i>Fluid Phase Equilibria</i> , 2020 , 521, 112703	2.5	5
17	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. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1537-1541	2.8	5
16	Isobaric Heat Capacity of Ionic Liquids in Aqueous Solutions. A Review. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4611-4618	2.8	4
15	Heat capacity singularity of binary liquid mixtures at the liquid-liquid critical point. <i>Physical Review E</i> , 2013 , 88, 042107	2.4	4
14	Heat capacity anomalies along the critical isotherm in fluid-fluid phase transitions. <i>Journal of Chemical Physics</i> , 2010 , 132, 154509	3.9	4

13	Calorimetric search for reliable excess enthalpy data as a function of temperature. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006 , 83, 263-268	4.1	4
12	Temperature of maximum density of proteins in water: β -Chymotrypsin and bovine serum albumin. <i>Journal of Chemical Thermodynamics</i> , 2020 , 142, 106008	2.9	4
11	Temperature of Maximum Density for Binary Aqueous Solutions of Five Amino Acids. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5847-5856	2.8	4
10	Thermal conductivity measurements for organic liquids at high pressure. <i>Journal of Chemical Thermodynamics</i> , 2020 , 142, 106005	2.9	3
9	Solution thermodynamics near the liquid-liquid critical point. II. Excess second-order derivatives. <i>Fluid Phase Equilibria</i> , 2009 , 280, 144-150	2.5	2
8	A new methodology for determining the temperature of maximum density against pressure. Application to 2-propanol and ethanol aqueous solutions. <i>Fluid Phase Equilibria</i> , 2021 , 549, 113191	2.5	2
7	Volumetric characterization of the thermal denaturation of β -chymotrypsin at pH 2.2. <i>Journal of Chemical Thermodynamics</i> , 2020 , 149, 106147	2.9	1
6	Effect of hydrophobic phenomena over the volumetric behavior of aqueous ionic liquid solutions. <i>Journal of Molecular Liquids</i> , 2021 , 333, 115962	6	1
5	Strange behaviour of transport properties in novel metal thiocyanate based ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 340, 117164	6	1
4	Maximum in density of electrolyte solutions: Learning about ion-water interactions and testing the Madrid-2019 force field.. <i>Journal of Chemical Physics</i> , 2022 , 156, 154502	3.9	1
3	The increment of the temperature of maximum density of water by addition of small amounts of tert-butanol: Experimental data and microscopic description revisited.. <i>Journal of Chemical Physics</i> , 2022 , 156, 104502	3.9	0
2	Note: Evidence against 2D-Ising criticality in aqueous solutions with added salt. <i>Journal of Chemical Physics</i> , 2013 , 139, 176101	3.9	
1	Volumetric and thermal excess properties of the {(1,2-dichloroethane or 1,4-dichlorobutane) + n-dodecane systems}. <i>Journal of Chemical Thermodynamics</i> , 2020 , 141, 105031	2.9	