

Emilio J Gonzalez

List of Publications by Citations

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78
papers

2,324
citations

31
h-index

45
g-index

81
ext. papers

2,549
ext. citations

3.6
avg, IF

5.22
L-index

#	Paper	IF	Citations
78	Physical Properties of Binary Mixtures of the Ionic Liquid 1-Methyl-3-octylimidazolium Chloride with Methanol, Ethanol, and 1-Propanol at T = (298.15, 313.15, and 328.15) K and at P = 0.1 MPa. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1446-1452	2.8	148
77	Temperature Dependence and Structural Influence on the Thermophysical Properties of Eleven Commercial Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2492-2504	3.9	142
76	Physical Properties of Binary Mixtures of the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethyl Sulfate with Several Alcohols at T = (298.15, 313.15, and 328.15) K and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1641-1648	2.8	140
75	(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	2.9	80
74	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	2.9	68
73	Physical and Excess Properties of Eight Binary Mixtures Containing Water and Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2165-2176	2.8	66
72	Density, Speed of Sound, and Refractive Index of the Binary Systems Cyclohexane (1) or Methylcyclohexane (1) or Cyclo-octane (1) with Benzene (2), Toluene (2), and Ethylbenzene (2) at Two Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1003-1011	2.8	61
71	Thermophysical Properties of the Pure Ionic Liquid 1-Butyl-1-methylpyrrolidinium Dicyanamide and Its Binary Mixtures with Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1440-1448	2.8	53
70	Liquid-Liquid Equilibrium for Ternary Mixtures of Hexane + Aromatic Compounds + [EMpy][ESO4] at T = 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 633-638	2.8	53
69	Excess properties of binary mixtures containing 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid and polar organic compounds. <i>Journal of Chemical Thermodynamics</i> , 2012 , 47, 300-311	2.9	51
68	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. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2294-2305	2.8	49
67	Ionic liquids as entrainers for the separation of aromatic-aliphatic hydrocarbon mixtures by extractive distillation. <i>Chemical Engineering Research and Design</i> , 2016 , 115, 382-393	5.5	49
66	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. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 881-887	2.8	48
65	Synthesis and characterization of new polysubstituted pyridinium-based ionic liquids: application as solvents on desulfurization of fuel oils. <i>Green Chemistry</i> , 2011 , 13, 2768	10	47
64	Separation of toluene from alkanes using 1-ethyl-3-methylpyridinium ethylsulfate ionic liquid at T=298.15K and atmospheric pressure. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 752-757	2.9	47
63	Application of [HMim][NTf2], [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. <i>Journal of Chemical Thermodynamics</i> , 2012 , 53, 60-66	2.9	46
62	On the behavior of imidazolium versus pyrrolidinium ionic liquids as extractants of phenolic compounds from water: Experimental and computational analysis. <i>Separation and Purification Technology</i> , 2018 , 201, 214-222	8.3	43

61	Vapor-liquid equilibria of {n-heptane + toluene + [emim][DCA]} system by headspace gas chromatography. <i>Fluid Phase Equilibria</i> , 2015 , 387, 209-216	2.5	42
60	Liquid Extraction of Benzene from Its Mixtures Using 1-Ethyl-3-methylimidazolium Ethylsulfate as a Solvent. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4931-4936	2.8	42
59	Separation of Benzene from Linear Alkanes (C6-9) Using 1-Ethyl-3-Methylimidazolium Ethylsulfate at T = 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3422-3427	2.8	41
58	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	2.9	40
57	Excess properties of binary mixtures hexane, heptane, octane and nonane with benzene, toluene and ethylbenzene at T = 283.15 and 298.15 K. <i>Physics and Chemistry of Liquids</i> , 2010 , 48, 514-533	1.5	40
56	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	2.5	39
55	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	2.9	37
54	Extraction of Benzene from Aliphatic Compounds Using Commercial Ionic Liquids as Solvents: Study of the Liquid-Liquid Equilibrium at T = 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3376-3383	2.8	37
53	1-Alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids as solvents in the separation of azeotropic mixtures. <i>Journal of Chemical Thermodynamics</i> , 2012 , 53, 152-157	2.9	36
52	Liquid extraction of aromatic/cyclic aliphatic hydrocarbon mixtures using ionic liquids as solvent: Literature review and new experimental LLE data. <i>Fuel Processing Technology</i> , 2014 , 125, 207-216	7.2	35
51	Liquid-liquid equilibria for ternary systems of {cyclohexane+aromatic compounds+1-ethyl-3-methylpyridinium ethylsulfate}. <i>Fluid Phase Equilibria</i> , 2010 , 296, 213-218	2.5	35
50	Selective recovery of aliphatics from aromatics in the presence of the {[4empy][Tf 2 N] + [emim][DCA]} ionic liquid mixture. <i>Journal of Chemical Thermodynamics</i> , 2016 , 96, 134-142	2.9	31
49	Effect of the number, position and length of alkyl chains on the physical properties of polysubstituted pyridinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014 , 69, 19-26	2.9	31
48	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	2.9	31
47	Separation of BTEX from a naphtha feed to ethylene crackers using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Separation and Purification Technology</i> , 2015 , 144, 54-62	8.3	30
46	Physical properties of the pure 1-methyl-1-propylpyrrolidinium bis(trifluoromethylsulfonyl)imide ionic liquid and its binary mixtures with alcohols. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 109-116	2.9	29
45	Phase behavior of ternary mixtures {aliphatic hydrocarbon+aromatic hydrocarbon+ionic liquid}: Experimental LLE data and their modeling by COSMO-RS. <i>Journal of Chemical Thermodynamics</i> , 2014 , 77, 222-229	2.9	29
44	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	2.9	29

43	Dearomatization of pyrolysis gasolines from mild and severe cracking by liquid-liquid extraction using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Fuel Processing Technology</i> , 2015 , 137, 269-282	7.2	28
42	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	2.5	28
41	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	2.5	26
40	Extractive denitrogenation of model oils with tetraalkyl substituted pyridinium based ionic liquids. <i>Fluid Phase Equilibria</i> , 2015 , 396, 66-73	2.5	24
39	(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	2.9	24
38	(Liquid + liquid) equilibria for the ternary mixtures (alkane + toluene + ionic liquid) at T= 298.15 K: Influence of the anion on the phase equilibria. <i>Journal of Chemical Thermodynamics</i> , 2012 , 47, 402-407	2.9	22
37	Overview of neoteric solvents as extractants in food industry: A focus on phenolic compounds separation from liquid streams. <i>Food Research International</i> , 2020 , 136, 109558	7	22
36	Physical Properties of Binary Alcohol + Ionic Liquid Mixtures at Several Temperatures and Atmospheric Pressure. <i>Journal of Solution Chemistry</i> , 2013 , 42, 746-763	1.8	21
35	Hydrophobic eutectic solvents for extraction of natural phenolic antioxidants from winery wastewater. <i>Separation and Purification Technology</i> , 2021 , 254, 117590	8.3	21
34	Use of selective ionic liquids and ionic liquid/salt mixtures as entrainer in a (vapor + liquid) system to separate n-heptane from toluene. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 156-164	2.9	20
33	Deepening of the Role of Cation Substituents on the Extractive Ability of Pyridinium Ionic Liquids of N-Compounds from Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2015-2025	8.3	18
32	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. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2289-2293	2.8	18
31	Motivational active learning: An integrated approach to teaching and learning process control. <i>Education for Chemical Engineers</i> , 2018 , 24, 7-12	2.4	17
30	A comparative study of pure ionic liquids and their mixtures as potential mass agents in the separation of hydrocarbons. <i>Journal of Molecular Liquids</i> , 2016 , 222, 118-124	6	15
29	Effect of the relative humidity and isomeric structure on the physical properties of pyridinium based-ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2015 , 86, 96-105	2.9	14
28	Phase equilibria of binary mixtures (ionic liquid+aromatic hydrocarbon): Effect of the structure of the components on the solubility. <i>Fluid Phase Equilibria</i> , 2013 , 360, 416-422	2.5	14
27	Study of [EMim][ESO4] ionic liquid as solvent in the liquid-liquid extraction of xylenes from their mixtures with hexane. <i>Fluid Phase Equilibria</i> , 2011 , 305, 227-232	2.5	14
26	Osmotic coefficients and apparent molar volumes of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid in alcohols. <i>Journal of Chemical Thermodynamics</i> , 2014 , 69, 93-100 ^{2.9}	2.9	13

25	Thermodynamic Equilibrium of Xylene Isomerization in the Liquid Phase. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1425-1428	2.8	13
24	Liquid-Liquid equilibria of binary systems {benzene + [x-Mim][NTf ₂] ionic liquid}: Experimental data and thermodynamic modeling using a group contribution equation of state. <i>Fluid Phase Equilibria</i> , 2014 , 362, 163-169	2.5	12
23	Enhancing aqueous systems fermentability using hydrophobic eutectic solvents as extractants of inhibitory compounds. <i>Separation and Purification Technology</i> , 2020 , 250, 117184	8.3	11
22	Reprint of: Motivational active learning: An integrated approach to teaching and learning process control. <i>Education for Chemical Engineers</i> , 2019 , 26, 8-13	2.4	9
21	Vapor-Liquid Equilibria of n-Heptane + Toluene +1-Ethyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 458-465	2.8	9
20	Influence of the number, position and length of the alkyl-substituents on the solubility of water in pyridinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014 , 383, 72-77	2.5	9
19	A simple and reliable procedure to accurately estimate NRTL interaction parameters from liquid-liquid equilibrium data. <i>Chemical Engineering Science</i> , 2019 , 193, 370-378	4.4	9
18	On the volatility of aromatic hydrocarbons in ionic liquids: Vapor-liquid equilibrium measurements and theoretical analysis. <i>Journal of Molecular Liquids</i> , 2018 , 250, 9-18	6	9
17	A virtual lab as a complement to traditional hands-on labs: Characterization of an alkaline electrolyzer for hydrogen production. <i>Education for Chemical Engineers</i> , 2018 , 23, 7-17	2.4	8
16	Solubility, density and excess molar volume of binary mixtures of aromatic compounds and common ionic liquids at T = 283.15 K and atmospheric pressure. <i>Physics and Chemistry of Liquids</i> , 2015 , 53, 419-428	1.5	7
15	Sustainable Recovery of High Added-Value Vanilla Compounds from Wastewater Using Green Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4850-4862	8.3	7
14	Mutual Solubility of Aromatic Hydrocarbons in Pyrrolidinium and Ammonium-Based Ionic Liquids and Its Modeling Using the Cubic-Plus-Association (CPA) Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 633-642	2.8	6
13	Selection of a minimum toxicity and high performance ionic liquid mixture for the separation of aromatic - aliphatic mixtures by extractive distillation. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 2209-2214	0.6	6
12	Physical and Excess Properties for Binary Systems Containing an Alcohol and Ionic Liquid at T = 298.15 K. <i>Procedia Engineering</i> , 2012 , 42, 1383-1389		5
11	COSMO-derived descriptors applied in ionic liquids physical property modelling using machine learning algorithms. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 121-126	0.6	3
10	Evaluation of [C3mim][NTf ₂] as Solvent for the Liquid-Liquid Extraction of Benzene from Mixtures of Benzene and Hexane. <i>Separation Science and Technology</i> , 2012 , 47, 331-336	2.5	3
9	Evaluation of bio-based solvents for phenolic acids extraction from aqueous matrices. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116930	6	3
8	Teaching chemical engineering using Jupyter notebook: Problem generators and lecturing tools. <i>Education for Chemical Engineers</i> , 2021 , 37, 1-10	2.4	3

7	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	2
6	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		2
5	An integrated approach for sustainable valorization of winery wastewater using bio-based solvents for recovery of natural antioxidants. <i>Journal of Cleaner Production</i> , 2022 , 334, 130181	10.3	2
4	Role of the cation on the liquid extraction of levulinic acid from water using NTF2-based ionic liquids: Experimental data and computational analysis. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112561	6	1
3	Comparison of different processing routes for the valorisation of olive tree pruning wastes. <i>Computer Aided Chemical Engineering</i> , 2021 , 1949-1954	0.6	1
2	Motivational Active Learning in Chemical Engineering. <i>Computer Aided Chemical Engineering</i> , 2020 , 2017-2022		0
1	Active Learning of Process Control. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 1693-1698	0.6	