

Nirmala Deenadayalu

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,688
citations

279798

23
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Ternary liquid-liquid equilibria for mixtures of 1-methyl-3-octyl-imidazolium chloride + benzene + an alkane at T=298.2 K and 1 atm. Journal of Chemical Thermodynamics, 2003, 35, 67-76.	2.0	203
2	Activity Coefficients at Infinite Dilution of Organic Solutes in 1-Hexyl-3-methylimidazolium Hexafluorophosphate from Gas-Liquid Chromatography. Journal of Chemical & Engineering Data, 2003, 48, 708-711.	1.9	127
3	Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-Hexyl-3-methylimidazolium Tetrafluoroborate Using Gas-Liquid Chromatography at the Temperatures 298.15 K and 323.15 K. Journal of Chemical & Engineering Data, 2003, 48, 1587-1590.	1.9	105
4	Liquid-Liquid Equilibria for Ternary Mixtures (an Ionic Liquid + Benzene + Heptane or Hexadecane) at T = 298.2 K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2006, 51, 988-991.	1.9	103
5	Densities, speeds of sound, and refractive indices for binary mixtures of 1-butyl-3-methylimidazolium methyl sulphate ionic liquid with alcohols at T=(298.15, 303.15, 308.15, and 313.15)K. Journal of Chemical Thermodynamics, 2013, 57, 238-247.	2.0	102
6	Determination of Activity Coefficients at Infinite Dilution of Polar and Nonpolar Solutes in the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl) Imidate Using Gas-Liquid Chromatography at the Temperature 303.15 K or 318.15 K. Journal of Chemical & Engineering Data, 2005, 50, 105-108.	1.9	97
7	Ternary Liquid-Liquid Equilibria for Mixtures of 1-Methyl-3-octylimidazolium Chloride + an Alkanol + an Alkane at 298.2 K and 1 bar. Journal of Chemical & Engineering Data, 2003, 48, 904-907.	1.9	95
8	Apparent Molar Volume and Isentropic Compressibility for the Binary Systems {Methyltrioctylammonium Bis(trifluoromethylsulfonyl)imide + Methyl Acetate or Methanol} and (Methanol + Methyl Acetate) at T=298.15, 303.15, 308.15 and 313.15 K and Atmospheric Pressure. Journal of Solution Chemistry, 2011, 40, 1528-1543.	1.2	80
9	Apparent molar volume and apparent molar isentropic compressibility for the binary systems {methyltrioctylammonium bis(trifluoromethylsulfonyl)imide+ethyl acetate or ethanol} at different temperatures under atmospheric pressure. Thermochemica Acta, 2013, 566, 77-83.	2.7	66
10	Pretreatment of South African sugarcane bagasse using a low-cost protic ionic liquid: a comparison of whole, depithed, fibrous and pith bagasse fractions. Biotechnology for Biofuels, 2018, 11, 247.	6.2	64
11	Density, speed of sound, and refractive index measurements for the binary systems (butanoic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Thermodynamics, 2013, 57, 203-211.	2.0	55
12	Levulinic acid production integrated into a sugarcane bagasse based biorefinery using thermal-enzymatic pretreatment. Industrial Crops and Products, 2017, 99, 172-178.	5.2	48
13	Liquid Densities and Excess Molar Volumes for Binary Systems (Ionic Liquids + Methanol or Water) at 298.15, 303.15 and 313.15 K, and at Atmospheric Pressure. Journal of Solution Chemistry, 2007, 36, 631-642.	1.2	43
14	Measurement of activity coefficients at infinite dilution using polar and non-polar solutes in the ionic liquid 1-methyl-3-octyl-imidazolium diethyleneglycolmonomethylethersulfate at T=(288.15, 298.15,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	40
15	Activity coefficients at infinite dilution for solutes in the trioctylmethylammonium bis(trifluoromethylsulfonyl)imide ionic liquid using gas-liquid chromatography. Journal of Chemical Thermodynamics, 2010, 42, 256-261.	2.0	41
16	Ternary excess molar volumes of {methyltrioctylammonium bis(trifluoromethylsulfonyl)imide+ethanol+methyl acetate, or ethyl acetate} systems at T=(298.15,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	40
17	Excess molar volumes and isentropic compressibility of binary systems {trioctylmethylammonium bis(trifluoromethylsulfonyl)imide+methanol or ethanol or 1-propanol} at different temperatures. Journal of Chemical Thermodynamics, 2008, 40, 1041-1045.	2.0	40
18	Volumetric Properties for (Ionic Liquid + Methanol or Ethanol or 1-Propanol + Nitromethane) at 298.15 K and Atmospheric Pressure. Journal of Chemical & Engineering Data, 2011, 56, 1682-1686.	1.9	37

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19	Volumetric properties of ternary (IL + 2-propanol or 1-butanol or 2-butanol + ethyl acetate) systems and binary (IL + 2-propanol or 1-butanol or 2-butanol) and (1-butanol or 2-butanol + ethyl acetate) systems. <i>Journal of Chemical Thermodynamics</i> , 2012, 49, 24-38.	2.0	35
20	Liquid densities and excess molar volumes for (ionic liquids+methanol+water) ternary system at atmospheric pressure and at various temperatures. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1318-1324.	2.0	28
21	Effects of temperature and concentration on interactions in methanol + ethyl acetate and ethanol + methyl acetate or ethyl acetate systems: Insights from apparent molar volume and apparent molar isentropic compressibility study. <i>Thermochimica Acta</i> , 2014, 577, 87-94.	2.7	28
22	Effect of temperature on density, sound velocity, refractive index and their derived properties for the binary systems (heptanoic acid+propanoic or butanoic acids). <i>Journal of Chemical Thermodynamics</i> , 2014, 78, 7-15.	2.0	28
23	Density, Speed of Sound, and Derived Thermodynamic Properties of Ionic Liquids [EMIM] ⁺ [BETI] ⁻ or ([EMIM] ⁺ [CH ₃ CH ₂ CH ₂ OSO ₃] ⁻) ⁺ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	2.0	14
24	Activity coefficients at infinite dilution of organic solutes in the ionic liquid, methyl(trioctyl)ammonium thiosalicylate, [N1888][TS] by gas-liquid chromatography at T=(303.15,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	2.0	14
25	Excess Molar Enthalpies and Excess Molar Volumes for Mixtures of 1,3-Dimethyl-2-imidazolidinone and an Alkanol at T= 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2000, 45, 730-733.	1.9	14
26	Solid-liquid equilibria measurements for binary systems comprising (butyric acid+propionic or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	2.0	14
27	Effect of hydrophilic ionic liquid on the micellar properties of aqueous Tween-20. <i>Fluid Phase Equilibria</i> , 2015, 391, 67-71.	2.5	14
28	Determination of activity coefficients at infinite dilution of water and organic solutes (polar and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.0	12
29	Synthesis of CdS quantum dots in an imidazolium based ionic liquid. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 258-262.	4.0	10
30	Enzymatic Saccharification of Acid/Alkali Pre-treated, Mill-run, and Depithed Sugarcane Bagasse. <i>BioResources</i> , 2016, 11, .	1.0	9
31	The influence of various alkylammonium-based ionic liquids on the hydration state of temperature-responsive polymer. <i>Journal of Molecular Liquids</i> , 2017, 225, 186-194.	4.9	9
32	Excess molar enthalpies and excess molar volumes of (1,3-dimethyl-2-imidazolidinone + an aromatic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.0	8
33	Valorization of Sugarcane Bagasse to a Platform Chemical (Levulinic Acid) Catalysed by 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate ([BMIM][BF ₄]). <i>Waste and Biomass Valorization</i> , 2021, 12, 199-209.	3.4	8
34	Optimization of Levulinic Acid Production from Depithed Sugarcane Bagasse in 1-Ethyl-3-methylimidazolium hydrogen sulfate [EMim][HSO ₄]. <i>Waste and Biomass Valorization</i> , 2021, 12, 3179-3191.	3.4	8
35	Determination of activity coefficients at infinite dilution of solutes in the polar solvents quinoline, or 1,3-dimethyl-2-imidazolidinone using gas-liquid chromatography at T=(298.15, 313.15 and 323.15) K. <i>Journal of Chemical Thermodynamics</i> , 2001, 33, 1697-1707.	2.0	7
36	Profiling the molecular interactions between a promising thermoresponsive polymer and ionic liquid: A biophysical outlook. <i>Journal of Molecular Liquids</i> , 2019, 278, 716-721.	4.9	7

#	ARTICLE	IF	CITATIONS
37	Ternary Liquid-Liquid Equilibria for Mixtures of Quinoline + an Alkanol + Water at 298.2 K and 1 atm. Journal of Chemical & Engineering Data, 1999, 44, 1178-1182.	1.9	6
38	Ternary Liquid-Liquid Equilibria for Mixtures of an Alkane + an Aromatic Compound + 1,3-Dimethyl-2-imidazolidinone at 298.2 K and 1 atm. Journal of Chemical & Engineering Data, 2001, 46, 177-183.	1.9	6
39	Understanding the close encounter of heme proteins with carboxylated multiwalled carbon nanotubes: a case study of contradictory stability trend for hemoglobin and myoglobin. Physical Chemistry Chemical Physics, 2021, 23, 19740-19751.	2.8	3
40	Conversion of Cellulose into Value-Added Products. , 0, , .		1
41	Non-Covalent interaction between Ionic liquid (1-ethyl-3-methylimidazolium chloride-aluminum) Tj ETQq1 1 0.784314 rgBT /Qverlock 10	0.2	0