Nirmala Deenadayalu

List of Publications by Year
in descending order

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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	Valorization of Sugarcane Bagasse to a Platform Chemical (Levulinic Acid) Catalysed by 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate ([BMMim][BF4]). Waste and Biomass Valorization, 2021, 12, 199-209.	3.4	8
2	Optimization of Levulinic Acid Production from Depithed Sugarcane Bagasse in 1-Ethyl-3-methylimidazolium hydrogen sulfate [EMim][HSO4]. Waste and Biomass Valorization, 2021, 12, 3179-3191.	3.4	8
3	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
4	Non-Covalent interaction between Ionic liquid (1-ethyl-3-methylimidazolium chloride-aluminum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.2	0
5	Profiling the molecular interactions between a promising thermoresponsive polymer and ionic liquid: A biophysical outlook. Journal of Molecular Liquids, 2019, 278, 716-721.	4.9	7
6	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
7	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
8	Synthesis of CdS quantum dots in an imidazolium based ionic liquid. Materials Science in Semiconductor Processing, 2017, 71, 258-262.	4.0	10
9	The influence of various alkylammonium-based ionic liquids on the hydration state of temperature-responsive polymer. Journal of Molecular Liquids, 2017, 225, 186-194.	4.9	9
10	Enzymatic Saccharification of Acid/Alkali Pre-treated, Mill-run, and Depithed Sugarcane Bagasse. BioResources, 2016, 11, .	1.0	9
11	Effect of hydrophilic ionic liquid on the micellar properties of aqueous Tween-20. Fluid Phase Equilibria, 2015, 391, 67-71.	2.5	14
12	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. Thermochimica Acta, 2014, 577, 87-94.	2.7	28
13	Effect of temperature on density, sound velocity, refractive index and their derived properties for the binary systems (heptanoic acid+propanoic or butanoic acids). Journal of Chemical Thermodynamics, 2014, 78, 7-15.	2.0	28
14	Apparent molar volume and apparent molar isentropic compressibility for the binary systems {methyltrioctylammoniumbis(trifluoromethylsulfonyl)imide+ethyl acetate or ethanol} at different temperatures under atmospheric pressure. Thermochimica Acta, 2013, 566, 77-83.	2.7	66
15	Density, speed of sound, and refractive index measurements for the binary systems (butanoic) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Thermodynamics, 2013, 57, 203-211.	2.0	55
16	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
17	Solidâ€“liquid equilibria measurements for binary systems comprising (butyric acid+propionic or) Tj ETQq1 1 0.784314 rgBT /Overlock Chemical Thermodynamics, 2013, 57, 485-492.	2.0	14
18	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. Journal of Chemical Thermodynamics, 2012, 49, 24-38.	2.0	35

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19	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
20	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
21	Determination of activity coefficients at infinite dilution of water and organic solutes (polar and) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Thermodynamics, 2011, 43, 1178-1184.	2.0	12
22	Activity coefficients at infinite dilution of organic solutes in the ionic liquid, methyl(trioctyl)ammonium thiosalicylate, [N1888][TS] by gasâ€“liquid chromatography at T=(303.15,) Tj ETQq0 0 0 rgBT /Overlock 10	2.0	16
23	Activity coefficients at infinite dilution for solutes in the trioctylmethylammonium bis(trifluoromethylsulfonyl)imide ionic liquid using gasâ€“liquid chromatography. Journal of Chemical Thermodynamics, 2010, 42, 256-261.	2.0	41
24	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	41
25	Excess molar volumes and isentropic compressibility of binary systems {trioctylmethylammonium bis(trifluoromethysulfonyl)imide+methanol or ethanol or 1-propanol} at different temperatures. Journal of Chemical Thermodynamics, 2008, 40, 1041-1045.	2.0	40
26	Density, Speed of Sound, and Derived Thermodynamic Properties of Ionic Liquids [EMIM]⁺[BETI]^{â^'} or ([EMIM]⁺[CH₃(OCH₂CH₂)₂OSO₃]^{â^'}) Tj ET Engineering Data, 2008, 53, 1098-1102.	1.9	26
27	Liquid Densities and Excess Molar Volumes for Binary Systems (Ionic Liquidsâ€‰+â€‰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
28	Liquid densities and excess molar volumes for (ionic liquids+methanol+water) ternary system at atmospheric pressure and at various temperatures. Journal of Chemical Thermodynamics, 2007, 39, 1318-1324.	2.0	28
29	Liquidâ^'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
30	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 1	2.0	42
31	Determination of Activity Coefficients at Infinite Dilution of Polar and Nonpolar Solutes in the Ionic Liquid 1-Ethyl-3-methyl- imidazolium Bis(trifluoromethylsulfonyl) Imidate Using Gasâ^'Liquid Chromatography at the Temperature 303.15 K or 318.15 K. Journal of Chemical & Engineering Data, 2005, 50, 105-108.	1.9	97
32	Ternary liquidâ€“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
33	Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid 1-Hexyl-3-methylimidazolium Tetrafluoroborate Using Gasâ^'Liquid Chromatography at the Temperatures 298.15 K and 323.15 K. Journal of Chemical & Engineering Data, 2003, 48, 1587-1590.	1.9	105
34	Activity Coefficients at Infinite Dilution of Organic Solutes in 1-Hexyl-3-methylimidazolium Hexafluorophosphate from Gasâ^'Liquid Chromatography. Journal of Chemical & Engineering Data, 2003, 48, 708-711.	1.9	127
35	Ternary Liquidâ^'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
36	Ternary Liquidâ^'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

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37	Excess molar enthalpies and excess molar volumes of (1,3-dimethyl-2-imidazolidinone + an aromatic) Tj ETQq1 1 0.784314 rgBT /Over	2.0	8
38	Determination of activity coefficients at infinite dilution of solutes in the polar solvents quinoline, or 1,3-dimethyl-2-imidazolidinone using gasâ€“liquid chromatography at T=(298.15, 313.15 and 323.15) K. Journal of Chemical Thermodynamics, 2001, 33, 1697-1707.	2.0	7
39	Excess Molar Enthalpies and Excess Molar Volumes for Mixtures of 1,3-Dimethyl-2-imidazolidinone and an Alkanol atT= 298.15 K. Journal of Chemical & Engineering Data, 2000, 45, 730-733.	1.9	14
40	Ternary Liquidâ^'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
41	Conversion of Cellulose into Value-Added Products. , 0, , .		1