ZdenÄ›k Wagner

List of Publications by Year
in descending order

41 papers	584 citations	687363 13 h-index	677142 22 g-index
41 all docs	41 docs citations	41 times ranked	711 citing authors

#	Article	IF	Citations
1	High-pressure vapourâ€"liquid equilibrium in systems containing carbon dioxide, 1-hexene, and n-hexane. Fluid Phase Equilibria, 1987, 33, 109-123.	2.5	89
2	Evaluation of a Conceptual Model for Gas-Particle Partitioning of Polycyclic Aromatic Hydrocarbons Using Polyparameter Linear Free Energy Relationships. Environmental Science & Technology, 2016, 50, 12312-12319.	10.0	46
3	Branched and cyclic alkyl groups in imidazolium-based ionic liquids: Molecular organization and physico-chemical properties. Fluid Phase Equilibria, 2014, 371, 41-49.	2.5	34
4	Vapour-liquid equilibrium in the carbon dioxideâ€"ethyl acetate system at high pressure. Fluid Phase Equilibria, 1994, 97, 119-126.	2.5	33
5	Liquidâ^'Liquid Equilibrium in Binary System [bmim][PF6] + 1-Butanol. Journal of Chemical & Engineering Data, 2006, 51, 2126-2131.	1.9	28
6	Thermal Properties of Alkyl-triethylammonium bis $${$$ { (trifluoromethyl)sulfonyl $$}$$ } imide Ionic Liquids. Journal of Solution Chemistry, 2015, 44, 790-810.	1.2	27
7	Phase Behaviour, Interactions, and Structural Studies of (Amines+Ionic Liquids) Binary Mixtures. ChemPhysChem, 2012, 13, 1825-1835.	2.1	24
8	Vapour-liquid equilibrium at high pressure in the system containing carbon dioxide and propyl acetate. Fluid Phase Equilibria, 1995, 110, 175-182.	2.5	19
9	Thermodynamic description of liquidâ€"liquid equilibria in systems 1-ethyl-3-methylimidazolium ethylsulfate+C7-hydrocarbons by polymer-solution models. Fluid Phase Equilibria, 2009, 284, 80-85.	2.5	16
10	Density and sound velocity measurement by an Anton Paar DSA 5000 density meter: Precision and long-time stability. Journal of Molecular Liquids, 2021, 329, 115547.	4.9	16
11	Mutual Solubilities of Ammonium-Based Ionic Liquids with Water and with Water/Methanol Mixture. Procedia Engineering, 2012, 42, 1229-1241.	1.2	15
12	Speeds of sound, isentropic compressibilities and refractive indices for some binary mixtures of nitromethane with chloroalkane at temperatures from 298.15 to 318.15K. Comparison with theories. Fluid Phase Equilibria, 2015, 385, 105-119.	2.5	15
13	Influence of the alkyl side chain length on the thermophysical properties of chiral ionic liquids with a (1 R ,2 S ,5 R)-(â€")-menthol substituent and data analysis by means of mathematical gnostics. Journal of Molecular Liquids, 2017, 242, 336-348.	4.9	15
14	New Method Based on the UNIFACâ€"VISCO Model for the Estimation of Ionic Liquids Viscosity Using the Experimental Data Recommended by Mathematical Gnostics. Journal of Chemical & Engineering Data, 2016, 61, 3908-3921.	1.9	13
15	Advanced Analysis of Isobaric Heat Capacities by Mathematical Gnostics. Journal of Solution Chemistry, 2017, 46, 1836-1853.	1.2	13
16	Ionic Liquids as Thermal Energy Storage Materials: On the Importance of Reliable Data Analysis in Assessing Thermodynamic Data. Journal of Solution Chemistry, 2019, 48, 949-961.	1.2	12
17	Vapour-liquid equilibrium in the carbon dioxideî—¸ethyl propanoate system at pressures from 2 to 9 MPa and temperatures from 303 to 323 K. Fluid Phase Equilibria, 1995, 112, 125-129.	2.5	11
18	Semi-empirical model of toluene transport in polyethylene membranes based on the data using a new type of apparatus for determining gas permeability, diffusivity and solubility. Chemical Engineering Science, 2011, 66, 5566-5574.	3.8	11

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19	Liquid Phase Behavior in Systems of 1-Butyl-3-alkylimidazolium bis{(trifluoromethyl)sulfonyl}imide Ionic Liquids with Water: Influence of the Structure of the C5 Alkyl Substituent. Journal of Solution Chemistry, 2017, 46, 1456-1474.	1.2	11
20	Densities, Vapor Pressures, and Surface Tensions of Selected Terpenes. Journal of Solution Chemistry, 2019, 48, 1147-1166.	1.2	11
21	Number Concentrations and Modal Structure of Indoor/Outdoor Fine Particles in Four European Cities. Aerosol and Air Quality Research, 2017, 17, 131-146.	2.1	11
22	Group Contribution Method for Evaluation of Volumetric Properties of Ionic Liquids Using Experimental Data Recommended by Mathematical Gnostics. Industrial & Engineering Chemistry Research, 2017, 56, 6827-6840.	3.7	10
23	Heat capacity of 1-hexadecyl-3-methylimidazolium based ionic liquids in solid and liquid phase. Journal of Molecular Liquids, 2020, 305, 112847.	4.9	10
24	Possibility of pore size determination in separation layer of ceramic membrane using permeation method. Journal of Membrane Science, 1995, 103, 151-157.	8.2	9
25	New arrangement of dynamic permeation method for determination of gas separation ability of ionic liquids. Separation and Purification Technology, 2015, 147, 1-8.	7.9	9
26	Thermal properties of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids with linear, branchedÂand cyclic alkyl substituents. Fluid Phase Equilibria, 2017, 443, 32-43.	2.5	9
27	Phase transitions in higher-melting imidazolium-based ionic liquids: Experiments and advanced data analysis. Journal of Molecular Liquids, 2019, 292, 111222.	4.9	9
28	Vapourâ€"liquid equilibrium in the sulphur hexafluoride â€" n-pentane system at high pressure. Fluid Phase Equilibria, 1990, 54, 35-45.	2.5	8
29	Vapour-liquid equilibrium in the carbon dioxide â€" p-cymene system at high pressure. Fluid Phase Equilibria, 1993, 90, 135-141.	2.5	8
30	Dynamics of Atmospheric Aerosol Number Size Distributions in the Eastern Mediterranean During the â€œSUB-AEROâ€•Project. Water, Air, and Soil Pollution, 2011, 214, 133-146.	2.4	7
31	Thermochemical Properties of Selected Terpenes. Journal of Solution Chemistry, 2020, 49, 1137-1153.	1.2	7
32	Thermochemical Properties of Menthol and Terpineol. Journal of Solution Chemistry, 2020, 49, 1267-1278.	1.2	6
33	Solidâ€"liquid equilibria in systems [C_xmim][Tf₂N] with diethylamine. Pure and Applied Chemistry, 2015, 87, 453-460.	1.9	5
34	Thermal properties of novel oligoether-substituted ionic liquids and the influence of alkyl-substituent isomery. Fluid Phase Equilibria, 2020, 514, 112561.	2.5	5
35	Volumetric, acoustic and optical properties for binary mixtures of nitroethane with chloroalkane at temperatures between 298.15 K and 318.15 K. Comparison with theories. Journal of Molecular Liquids, 2016, 223, 790-804.	4.9	4
36	Using Partial Least-Squares Regression in Multivariate UV Spectroscopic Analysis of Mixtures of Imidazolium-Based Ionic Liquids and 1-Methylimidazole for Measurements of Liquidâ€"Liquid Equilibria. Journal of Solution Chemistry, 2012, 41, 2164-2172.	1.2	2

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37	Carbon Nanotube-Based Ionanofluids for Efficient Energy Storage: Thermophysical Propertiesâ€™ Determination and Advanced Data Analysis. Industrial & Engineering Chemistry Research, 2021, 60, 7714-7728.	3.7	2
38	Comparison of Two Approaches to Modeling Atmospheric Aerosol Particle Size Distributions. Aerosol and Air Quality Research, 2008, 8, 392-410.	2.1	2
39	Comparison of prediction methods of heat capacity of ionic liquids with selected experimental data by means of advanced data analysis. Thermochimica Acta, 2020, 690, 178602.	2.7	1
40	Relation of the temperature derivative of heat of vaporization to the difference of heat capacities along the saturated vapour pressure curve. Collection of Czechoslovak Chemical Communications, 1981, 46, 2446-2454.	1.0	1
41	Nonclassical behaviour of binary mixtures in gas-liquid critical region and its quantitative description. Collection of Czechoslovak Chemical Communications, 1989, 54, 2863-2867.	1.0	0