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	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
2	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
3	Thermal properties of novel oligoether-substituted ionic liquids and the influence of alkyl-substituent isomery. Fluid Phase Equilibria, 2020, 514, 112561.	2.5	5
4	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
5	Thermochemical Properties of Menthol and Terpineol. Journal of Solution Chemistry, 2020, 49, 1267-1278.	1.2	6
6	Thermochemical Properties of Selected Terpenes. Journal of Solution Chemistry, 2020, 49, 1137-1153.	1.2	7
7	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
8	Phase transitions in higher-melting imidazolium-based ionic liquids: Experiments and advanced data analysis. Journal of Molecular Liquids, 2019, 292, 111222.	4.9	9
9	Densities, Vapor Pressures, and Surface Tensions of Selected Terpenes. Journal of Solution Chemistry, 2019, 48, 1147-1166.	1.2	11
10	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
11	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
12	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
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	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
15	Advanced Analysis of Isobaric Heat Capacities by Mathematical Gnostics. Journal of Solution Chemistry, 2017, 46, 1836-1853.	1.2	13
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	Thermal Properties of Alkyl-triethylammonium bis $${$$ { (trifluoromethyl)sulfonyl $$}$$ } imide Ionic Liquids. Journal of Solution Chemistry, 2015, 44, 790-810.	1.2	27
22	Solidâ€“liquid equilibria in systems [C_xmim][Tf₂N] with diethylamine. Pure and Applied Chemistry, 2015, 87, 453-460.	1.9	5
23	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
24	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
25	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
26	Mutual Solubilities of Ammonium-Based Ionic Liquids with Water and with Water/Methanol Mixture. Procedia Engineering, 2012, 42, 1229-1241.	1.2	15
27	Phase Behaviour, Interactions, and Structural Studies of (Amines+Ionic Liquids) Binary Mixtures. ChemPhysChem, 2012, 13, 1825-1835.	2.1	24
28	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
29	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
30	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
31	Comparison of Two Approaches to Modeling Atmospheric Aerosol Particle Size Distributions. Aerosol and Air Quality Research, 2008, 8, 392-410.	2.1	2
32	Liquidâ^'Liquid Equilibrium in Binary System [bmim][PF6] + 1-Butanol. Journal of Chemical & Engineering Data, 2006, 51, 2126-2131.	1.9	28
33	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
34	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
35	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
36	Vapour-liquid equilibrium in the carbon dioxideâ€”ethyl acetate system at high pressure. Fluid Phase Equilibria, 1994, 97, 119-126.	2.5	33

#	Article	IF	Citations
37	Vapour-liquid equilibrium in the carbon dioxide â€" p-cymene system at high pressure. Fluid Phase Equilibria, 1993, 90, 135-141.	2.5	8
38	Vapourâ€"liquid equilibrium in the sulphur hexafluoride â€" n-pentane system at high pressure. Fluid Phase Equilibria, 1990, 54, 35-45.	2.5	8
39	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
40	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
41	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