

Marek KrÅ³likowski

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,226
citations

159358

30
h-index

223531

46
g-index

65
all docs

65
docs citations

65
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation of aromatic hydrocarbons from alkanes using ammonium ionic liquid C ₂ NTf ₂ at T=298.15K. Fluid Phase Equilibria, 2007, 259, 173-179.	1.4	190
2	Solvent extraction of aromatic sulfur compounds from n-heptane using the 1-ethyl-3-methylimidazolium tricyanomethanide ionic liquid. Journal of Chemical Thermodynamics, 2013, 65, 168-173.	1.0	103
3	Separation of thiophene from heptane with ionic liquids. Journal of Chemical Thermodynamics, 2013, 61, 126-131.	1.0	97
4	Phase equilibria study of the binary systems (ionic liquid+thiophene): Desulphurization process. Journal of Chemical Thermodynamics, 2009, 41, 1303-1311.	1.0	88
5	Phase behaviour and physico-chemical properties of the binary systems {1-ethyl-3-methylimidazolium thiocyanate, or 1-ethyl-3-methylimidazolium tosylate+water, or+an alcohol}. Fluid Phase Equilibria, 2010, 294, 72-83.	1.4	81
6	Ternary (liquid+liquid) equilibria of {trifluorotris(perfluoroethyl)phosphate based ionic liquids+thiophene+heptane}. Journal of Chemical Thermodynamics, 2012, 49, 154-158.	1.0	78
7	Thermodynamics and activity coefficients at infinite dilution measurements for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium tetracyanoborate. Journal of Chemical Thermodynamics, 2011, 43, 1810-1817.	1.0	77
8	Extraction of butan-1-ol from water with ionic liquids at T=308.15K. Journal of Chemical Thermodynamics, 2012, 53, 108-113.	1.0	72
9	Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid 1-butyl-1-methylpyrrolidinium tris(pentafluoroethyl)trifluorophosphate ([BMPYR][FAP]). Chemical Engineering Journal, 2012, 183, 261-270.	6.6	63
10	Thermodynamic Phase Behavior of Ionic Liquids. Journal of Chemical & Engineering Data, 2007, 52, 1872-1880.	1.0	56
11	Extraction desulfurization process of fuels with ionic liquids. Journal of Chemical Thermodynamics, 2014, 77, 40-45.	1.0	53
12	Ternary liquid-liquid equilibria of bis(trifluoromethylsulfonyl)-amide based ionic liquids+thiophene+n-heptane. The influence of cation structure. Fluid Phase Equilibria, 2012, 321, 59-63.	1.4	51
13	Physicochemical and thermodynamic study on aqueous solutions of dicyanamide based ionic liquids. Journal of Chemical Thermodynamics, 2014, 70, 127-137.	1.0	51
14	Phase Equilibria and Modeling of Ammonium Ionic Liquid, C ₂ NTf ₂ , Solutions. Journal of Physical Chemistry B, 2008, 112, 1218-1225.	1.2	49
15	Phase equilibria study of the binary systems (1-butyl-3-methylimidazolium tosylate ionic liquid+water,) Tj ETQq1 1 0,784314 rgBT /Over	1.0	49
16	Phase equilibria study of binary and ternary mixtures of {N-octylisoquinolinium bis((trifluoromethyl)sulfonyl)imide + hydrocarbon, or an alcohol, or water}. Chemical Engineering Journal, 2012, 181-182, 63-71.	6.6	48
17	Synthesis, physical, and thermodynamic properties of 1-alkyl-cyanopyridinium bis((trifluoromethyl)sulfonyl)imide ionic liquids. Journal of Chemical Thermodynamics, 2013, 56, 153-161.	1.0	45
18	The study of activity coefficients at infinite dilution for organic solutes and water in 1-butyl-4-methylpyridinium dicyanamide, [B4MPy][DCA] using GLC. Journal of Chemical Thermodynamics, 2014, 68, 138-144.	1.0	44

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19	Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid trihexyltetradecylphosphonium-bis-(2,4,4-trimethylpentyl)-phosphinate using g.l.c. at T= (303.15, 308.15,) Tj ETQq1.0 0.784314 rgBT	1.0	41
20	Determination of Activity Coefficients at Infinite Dilution of Solutes in the Ionic Liquid, Trihexyltetradecylphosphonium Bis(trifluoromethylsulfonyl) Imide, Using Gas-Liquid Chromatography at $T = (303.15, 308.15, 313.15, \text{ and } 318.15) \text{ K}$. Journal of Chemical & Engineering Data, 2008, 53, 2044-2049.	1.0	41
21	Activity coefficients at infinite dilution measurements for organic solutes in the ionic liquid N-butyl-4-methylpyridinium tosylate using GLC at T= (328.15, 333.15, 338.15, and 343.15) K. Fluid Phase Equilibria, 2009, 276, 31-36.	1.4	41
22	Excess Enthalpies of Mixing of Piperidinium Ionic Liquids with Short-Chain Alcohols: Measurements and PC-SAFT Modeling. Journal of Physical Chemistry B, 2013, 117, 3884-3891.	1.2	41
23	Computer-Aided Molecular Design of New Task-Specific Ionic Liquids for Extractive Desulfurization of Gasoline. ACS Sustainable Chemistry and Engineering, 2017, 5, 9032-9042.	3.2	39
24	Measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid 1-ethyl-3-methylimidazolium methanesulfonate. Journal of Chemical Thermodynamics, 2012, 54, 20-27.	1.0	38
25	Liquid-liquid extraction of sulfur compounds from heptane with tricyanomethanide based ionic liquids. Journal of Chemical Thermodynamics, 2019, 131, 460-470.	1.0	35
26	Phase equilibria study of the binary systems (N-butyl-3-methylpyridinium tosylate ionic liquid+an) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.0	34
27	Physicochemical properties and activity coefficients at infinite dilution for organic solutes and water in a novel bicyclic guanidinium superbase-derived protic ionic liquid. Journal of Chemical Thermodynamics, 2013, 58, 62-69.	1.0	34
28	Perturbed-Chain SAFT as a Versatile Tool for Thermodynamic Modeling of Binary Mixtures Containing Isoquinolinium Ionic Liquids. Journal of Physical Chemistry B, 2012, 116, 8191-8200.	1.2	32
29	Separation of 2-Phenylethanol from Water by Liquid-Liquid Extraction with Ionic Liquids: New Experimental Data and Modeling with Modern Thermodynamic Tools. Industrial & Engineering Chemistry Research, 2016, 55, 5736-5747.	1.8	32
30	Separation of thiophene, or benzothiophene from model fuel using glycols. Liquid-liquid phase equilibria and oxidative desulfurization study. Fluid Phase Equilibria, 2019, 482, 11-23.	1.4	32
31	Excess Enthalpies of Mixing, Effect of Temperature and Composition on the Density, and Viscosity and Thermodynamic Properties of Binary Systems of {Ammonium-Based Ionic Liquid + Alkanediol}. Journal of Physical Chemistry B, 2014, 118, 12692-12705.	1.2	31
32	Thermodynamic Study of Binary Mixtures of 1-Butyl-1-methylpyrrolidinium Dicyanamide Ionic Liquid with Molecular Solvents: New Experimental Data and Modeling with PC-SAFT Equation of State. Journal of Physical Chemistry B, 2015, 119, 543-551.	1.2	29
33	Phase Equilibria and Modeling of Pyridinium-Based Ionic Liquid Solutions. Journal of Physical Chemistry B, 2010, 114, 15011-15017.	1.2	27
34	Vapor-Liquid Phase Equilibria and Excess Thermal Properties of Binary Mixtures of Ethylsulfate-Based Ionic Liquids with Water: New Experimental Data, Correlations, and Predictions. Industrial & Engineering Chemistry Research, 2014, 53, 18316-18325.	1.8	27
35	Solubility of ionic liquids in water and octan-1-ol and octan-1-ol/water, or 2-phenylethanol/water partition coefficients. Journal of Chemical Thermodynamics, 2012, 55, 225-233.	1.0	25
36	Ternary liquid-liquid equilibria of bis(trifluoromethylsulfonyl)-amide based ionic liquids+methanol+heptane. Fluid Phase Equilibria, 2012, 318, 56-60.	1.4	24

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37	Measurements of activity coefficients at infinite dilution for organic solutes and water in N-hexylisoquinolinium thiocyanate, [HiQuin][SCN] using GLC. Journal of Chemical Thermodynamics, 2013, 62, 1-7.	1.0	23
38	Separation of aliphatic from aromatic hydrocarbons and sulphur compounds from fuel based on measurements of activity coefficients at infinite dilution for organic solutes and water in the ionic liquid N,N-diethyl-N-methyl-N-(2-methoxy-ethyl)ammonium bis(trifluoromethylsulfonyl)imide. Journal of Chemical Thermodynamics, 2016, 103, 115-124.	1.0	22
39	(Solid + liquid) and (liquid + liquid) phase equilibria study and correlation of the binary systems {N-butyl-3-methylpyridinium tosylate + water, or + an alcohol, or + a hydrocarbon}. Fluid Phase Equilibria, 2010, 294, 89-97.	1.4	21
40	Thermodynamics and Activity Coefficients at Infinite Dilution Measurements for Organic Solutes and Water in the Ionic Liquid N-Hexyl-3-methylpyridinium Tosylate. Journal of Physical Chemistry B, 2011, 115, 7397-7404.	1.2	21
41	Phase behaviour of ionic liquid 1-butyl-1-methylpyrrolidinium tris(pentafluoroethyl)trifluorophosphate with alcohols, water and aromatic hydrocarbons. Fluid Phase Equilibria, 2013, 345, 18-22.	1.4	21
42	Phase equilibrium investigation with ionic liquids and selectivity in separation of 2-phenylethanol from water. Journal of Chemical Thermodynamics, 2016, 102, 357-366.	1.0	21
43	Separation of organosulfur compounds from heptane by liquid-liquid extraction with tricyanomethanide based ionic liquids. Experimental data and NRTL correlation. Journal of Chemical Thermodynamics, 2020, 149, 106149.	1.0	17
44	Separation of 2-phenylethanol (PEA) from water using ionic liquids. Fluid Phase Equilibria, 2016, 423, 109-119.	1.4	16
45	Heat Capacity, Excess Molar Volumes and Viscosity Deviation of Binary Systems of N-octylisoquinolinium bis{(trifluoromethyl)sulfonyl}imide Ionic Liquid. Zeitschrift Fur Physikalische Chemie, 2013, 227, 217-238.	1.4	15
46	Liquid-liquid extraction of p-xylene from their mixtures with alkanes using 1-butyl-1-methylmorpholinium tricyanomethanide and 1-butyl-3-methylimidazolium tricyanomethanide ionic liquids. Fluid Phase Equilibria, 2016, 412, 107-114.	1.4	15
47	The investigation of the infinite dilution activity coefficients for molecular compounds in 1-(3-hydroxypropyl)-3-methylimidazolium thiocyanate. Journal of Chemical Thermodynamics, 2021, 161, 106554.	1.0	13
48	Measurements and equation-of-state modelling of thermodynamic properties of binary mixtures of 1-butyl-1-methylpyrrolidinium tetracyanoborate ionic liquid with molecular compounds. Journal of Chemical Thermodynamics, 2015, 90, 317-326.	1.0	12
49	Phase equilibrium study of the binary systems (N-hexyl-3-methylpyridinium tosylate ionic liquid + Tj ETQq1 1 0.784314 rgBT / Overloc	1.0	11
50	Extraction of 2-phenylethanol (PEA) from aqueous phases using tetracyanoborate-based ionic liquids. Journal of Molecular Liquids, 2016, 224, 1124-1130.	2.3	11
51	Designing and Characterization of Low-Temperature Eutectic Phase Change Materials Based on Alkanes. Journal of Chemical & Engineering Data, 2022, 67, 727-738.	1.0	11
52	The influence of the ionic liquids functionalization on interaction in binary systems with organic solutes and water – Thermodynamic data of activity coefficients at infinite dilution. Journal of Chemical Thermodynamics, 2020, 147, 106117.	1.0	9
53	Phase equilibria study of binary systems comprising an (ionic liquid+hydrocarbon). Journal of Chemical Thermodynamics, 2015, 83, 90-96.	1.0	8
54	An effect of cation's cyano group on interactions between organic solutes and ionic liquids elucidated by thermodynamic data at infinite dilution. Journal of Molecular Liquids, 2017, 243, 726-736.	2.3	8

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55	Physico-chemical properties of ionic liquids: Density, viscosity, density at high pressure, surface tension, octan-1-ol/water partition coefficients and thermodynamic models. <i>Fluid Phase Equilibria</i> , 2019, 502, 112304.	1.4	7
56	Removal of Perfluorooctanoic Acid from Water Using a Hydrophobic Ionic Liquid Selected Using the Conductor-like Screening Model for Realistic Solvents. <i>Environmental Science & Technology</i> , 2022, 56, 6445-6454.	4.6	7
57	Thermodynamic properties of infinitely diluted solutions of organic solutes in in silico designed task-specific ionic liquid. <i>Journal of Molecular Liquids</i> , 2019, 279, 733-739.	2.3	6
58	Effect of Cation Structure in Quinolinium-Based Ionic Liquids on the Solubility in Aromatic Sulfur Compounds or Heptane: Thermodynamic Study on Phase Diagrams. <i>Molecules</i> , 2020, 25, 5687.	1.7	6
59	Phase equilibria study on bromide-based ionic liquids with glycols and sulfolane. Experimental data and correlation. <i>Journal of Chemical Thermodynamics</i> , 2018, 122, 142-153.	1.0	5
60	Phase Equilibrium Investigation on 2-Phenylethanol in Binary and Ternary Systems: Influence of High Pressure on Density and Solid-Liquid Phase Equilibrium. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6188-6197.	1.2	5
61	New experimental data on (solid-liquid) phase equilibria of N-hexyl-N-methylmorpholinium bromide with glycols and sulfolane. The use of these binary systems in a sulfur extraction. <i>Journal of Molecular Liquids</i> , 2018, 263, 366-374.	2.3	4
62	Experimental study of carbon dioxide gas hydrate formation in the presence of zwitterionic compounds. <i>Journal of Chemical Thermodynamics</i> , 2019, 137, 94-100.	1.0	4
63	New Experimental Data on Thermodynamic Properties of the Aqueous Solution of N,N-Diethyl-N-methylammonium Bromide and N,N-Diethyl-N-methylammonium Methanesulfonate. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 2281-2294.	1.0	4
64	Physicochemical characterization and activity coefficients at infinite dilution of molecular compound in poly(ethylene glycol)dimethyl ether and the eutectic mixture composed of poly(ethylene) Tj ETQq0 0.0gBT /Overlock 10		
65	Excess Enthalpies in Binary Systems of Isomeric C8 Aliphatic Monoethers with Acetonitrile and Their Description by the COSMO-SAC Model. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 996-1002.	1.0	1