

dr inż. Kamil Padaszyński

Lista publikacji

z dnia 31 października 2013

Publikacje w czasopismach

1. Padaszyński K., Domańska U., 2013, **Extension of modified UNIFAC (Dortmund) matrix to piperidinium ionic liquids**, *Fluid Phase Equilibria* 353: 115-120.
2. Padaszyński K., Okuniewski M., Domańska U., 2013, **Renewable feedstocks in green solvents: Thermodynamic study on phase diagrams of d-sorbitol and xylitol with dicyanamide based ionic liquids**, *Journal of Physical Chemistry B* 117: 7034-7046.
3. Padaszyński K., Królikowski M., Domańska U., 2013, **Excess enthalpies of mixing of piperidinium ionic liquids with short-chain alcohols: Measurements and PC-SAFT modeling**, *Journal of Physical Chemistry B* 117: 3884-3891.
4. Padaszyński K., Domańska U., 2013, **Experimental and theoretical study on infinite dilution activity coefficients of various solutes in piperidinium ionic liquids**, *Journal of Chemical Thermodynamics* 60: 169-178.
5. Królikowska M., Padaszyński K., Zawadzki M., 2013, **Measurements, correlations, and predictions of thermodynamic properties of N-octylisoquinolinium thiocyanate ionic liquid and its aqueous solutions**, *Journal of Chemical Engineering Data* 58: 285-293.
6. Padaszyński K., Domańska U., 2012, **Heterosegmented perturbed-chain statistical associating fluid theory as a robust and accurate tool for modeling of various alkanes. 1. Pure fluids**, *Industrial & Engineering Chemistry Research* 51: 12967-12983.
7. Domańska U., Skiba K., Zawadzki M., Padaszyński K., Królikowski M., 2013, **Synthesis, physical, and thermodynamic properties of 1-alkyl-cyanopyridinium bis{(trifluoromethyl)sulfonyl}imide ionic liquids**, *Journal of Chemical Thermodynamics* 56: 153-161.
8. Królikowska M., Padaszyński K., Hofman T., Antonowicz J., 2012, **Heat capacities and excess enthalpies of the (N-hexylisoquinolinium thiocyanate ionic liquid + water) binary systems**, *Journal of Chemical Thermodynamics* 55: 144-150.
9. Domańska U., Zawadzki M., Padaszyński K., Królikowski M., 2012, **Perturbed-chain SAFT as a versatile tool for thermodynamic modeling of binary mixtures containing isoquinolinium ionic liquids**, *Journal of Physical Chemistry B* 116: 8191-8200.
10. Padaszyński K., Domańska U., 2012, **Thermodynamic modeling of ionic liquid systems: Development and detailed overview of novel methodology based on the PC-SAFT**, *Journal of Physical Chemistry B* 116: 5002-5018. (IF: 3.607)
11. Padaszyński K., Domańska U., 2012, **A new group contribution method for prediction of density of pure ionic liquids over a wide range of temperature and pressure**, *Industrial & Engineering Chemistry Research* 51: 591-604.
12. Padaszyński K., Domańska U., 2012, **Solubility of aliphatic hydrocarbons in piperidinium ionic liquids: Measurements and modeling in terms of perturbed-chain statistical associating fluid theory and nonrandom hydrogen-bonding theory**, *Journal of Physical Chemistry B* 115: 12537-12548.
13. Padaszyński K., Domańska U., 2011, **Limiting activity coefficients and gas-liquid partition coefficients of various solutes in piperidinium ionic liquids: Measurements and LSER calculations**, *Journal of Physical Chemistry B* 115: 8207-8215.
14. Padaszyński K., Chiyen J., Ramjugernath D., Letcher T.M., Domańska U., 2011, **Liquid-liquid phase equilibrium of (piperidinium-based ionic liquid + an alcohol) binary systems and modelling with NRHB and PCP-SAFT**, *Fluid Phase Equilibria* 305: 43-52.
15. Domańska U., Królikowska M., Padaszyński K., 2011, **Physico-chemical properties and phase behaviour of piperidinium-based ionic liquids**, *Fluid Phase Equilibria* 303: 1-9.
16. Domańska U., Padaszyński K., Dąbska J., 2011, **Measurements, correlations, and Mod. UNIFAC (Do) prediction of (Solid-Liquid) phase equilibria diagrams in binary systems (Aliphatic Ketone + an Alcohol)**, *Journal of Chemical & Engineering Data* 56: 881-888.

17. Domańska U., Padászyński K., Żółek-Tryznowska Z., 2011, *(Liquid + liquid) equilibria of binary systems containing hyperbranched polymer Boltorn® H2004 - Experimental study and modelling in terms of lattice-cluster theory*, *Journal of Chemical Thermodynamics* 43: 167-171.
18. Domańska U., Padászyński K., Niszczota Ż.K., 2011, *Solubility of fragrance raw materials in water: Experimental study, correlations, and Mod. UNIFAC (Do) predictions*, *Journal of Chemical Thermodynamics* 43: 28-33.
19. Domańska U., Padászyński K., 2010, *Measurements of activity coefficients at infinite dilution of organic solutes and water in 1-propyl-1-methylpiperidinium bis((trifluoromethyl) sulfonyl)imide ionic liquid using g.l.c.*, *Journal of Chemical Thermodynamics* 42: 1361-1366.
20. Domańska U., Padászyński K., Żółek-Tryznowska Z., 2010, *Liquid-liquid phase equilibria of binary systems containing hyperbranched polymer B-U3000: Experimental study and modeling in terms of lattice cluster theory*, *Journal of Chemical & Engineering Data* 55: 3842-3846.
21. Domańska U., Padászyński K., 2010, *Gas-liquid chromatography measurements of activity coefficients at infinite dilution of various organic solutes and water in tri-iso-butylmethylphosphonium tosylate ionic liquid*, *Journal of Chemical Thermodynamics* 42: 707-711.
22. Domańska U., Królikowski M., 2009, Padászyński K., *Phase equilibria study of the binary systems (N-butyl-3-methylpyridinium tosylate ionic liquid + an alcohol)*, *Journal of Chemical Thermodynamics* 41: 932-938.
23. Domańska U., Padászyński K., 2009, *(Solid + liquid) and (liquid + liquid) phase equilibria measurements and correlation of the binary systems {tri-iso-butyl(methyl)phosphonium tosylate + alcohol, or +hydrocarbon}*, *Fluid Phase Equilibria* 278: 90-96.
24. Domańska U., Padászyński K., 2008, *Phase equilibria study in binary systems (tetra-n-butylphosphonium tosylate ionic liquid + 1-alcohol, or benzene, or n-alkylbenzene)*, *Journal of Physical Chemistry B* 112: 11054-11059.