Kamil Paduszynski

List of Publications by Year in Descending Order

60 papers	1,658 citations	25 h-index	38 g-index
61 ext. papers	1,837 ext. citations	3.7 avg, IF	5.73 L-index

#	Paper	IF	Citations
60	Vapor Pressure and Physicochemical Properties of {LiBr + IL-Based Additive + Water} Mixtures: Experimental Data and COSMO-RS Predictions. *Journal of Solution Chemistry*, **2021**, 50, 473-502	1.8	4
59	Extensive Databases and Group Contribution QSPRs of Ionic Liquid Properties. 3: Surface Tension. *Industrial & Engineering Chemistry Research*, **2021**, 60, 5705-5720	3.9	7
58	New solvents for metal extraction NADES. Prediction and optimization of efficient extraction of selected metals by ICP-MS/MS. *Journal of Analytical Atomic Spectrometry*, **2021**, 36, 946-953	3.7	6
57	Predicting melting point of ionic liquids using QSPR approach: Literature review and new models. *Journal of Molecular Liquids*, **2021**, 117631	6	3
56	Extensive Evaluation of Performance of the COSMO-RS Approach in Capturing Liquid liquid Equilibria of Binary Mixtures of Ionic Liquids with Molecular Compounds. *Industrial & Engineering Chemistry Research*, **2020**, 59, 11851-11863	3.9	12
55	COSMO-RS predicted 1-octanol/water partition coefficient as useful ion descriptor for predicting phase behavior of aqueous solutions of ionic liquids. *Journal of Molecular Liquids*, **2020**, 307, 112914	6	2
54	(Vapor + liquid) phase equilibria of an aqueous solution of bromide-based ionic liquids measurements, correlations and application to absorption cycles. *Fluid Phase Equilibria*, **2019**, 494, 201-211	2.5	13
53	New phase equilibrium data at ambient and high pressure for strongly asymmetric mixtures containing menthol. *Journal of Molecular Liquids*, **2019**, 286, 110819	6	1
52	Extensive Databases and Group Contribution QSPRs of Ionic Liquids Properties. 1. Density. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5322-5338	3.9	18
51	Thermodynamic properties of infinitely diluted solutions of organic solutes in in silico designed task-specific ionic liquid. *Journal of Molecular Liquids*, **2019**, 279, 733-739	6	6
50	Extensive Databases and Group Contribution QSPRs of Ionic Liquids Properties. 2. Viscosity. *Industrial & Engineering Chemistry Research*, **2019**, 58, 17049-17066	3.9	18
49	Extensive Evaluation of the Conductor-like Screening Model for Real Solvents Method in Predicting Liquid-Liquid Equilibria in Ternary Systems of Ionic Liquids with Molecular Compounds. *Journal of Physical Chemistry B*, **2018**, 122, 4016-4028	3.4	17
48	Thermodynamic Modeling of Multicomponent Liquid liquid Equilibria in Ionic Liquid Systems with PC-SAFT Equation of State. *Industrial & Engineering Chemistry Research*, **2018**, 57, 5413-5432	3.9	4
47	Extraction of butan-1-ol from aqueous solution using ionic liquids: An effect of cation revealed by experiments and thermodynamic models. *Separation and Purification Technology*, **2018**, 196, 71-81	8.3	17
46	COSMO-RS screening for ionic liquid to be applied in extraction of 2-phenylethanol from aqueous solutions. *Journal of Molecular Liquids*, **2018**, 271, 305-312	6	11
45	An overview of the performance of the COSMO-RS approach in predicting the activity coefficients of molecular solutes in ionic liquids and derived properties at infinite dilution. *Physical Chemistry Chemical Physics*, **2017**, 19, 11835-11850	3.6	59
44	Effect of Side Chain Functional Group on Interactions in Ionic Liquid Systems: Insights from Infinite Dilution Thermodynamic Data. *Journal of Physical Chemistry B*, **2017**, 121, 10133-10145	3.4	10

43	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	6	8
42	Extraction of 2-Phenylethanol (PEA) from Aqueous Solution Using Ionic Liquids: Synthesis, Phase Equilibrium Investigation, Selectivity in Separation, and Thermodynamic Models. *Journal of Physical Chemistry B*, **2017**, 121, 7689-7698	3.4	19
41	Computer-Aided Molecular Design of New Task-Specific Ionic Liquids for Extractive Desulfurization of Gasoline. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9032-9042	8.3	31
40	Phase Diagrams in Representative Terpenoid Systems: Measurements and Calculations with Leading Thermodynamic Models. *Industrial & Engineering Chemistry Research*, **2017**, 56, 9753-9761	3.9	6
39	An effect of cation functionalization on thermophysical properties of ionic liquids and solubility of glucose in them Measurements and PC-SAFT calculations. *Journal of Chemical Thermodynamics*, **2016**, 92, 81-90	2.9	16
38	In Silico Calculation of Infinite Dilution Activity Coefficients of Molecular Solutes in Ionic Liquids: Critical Review of Current Methods and New Models Based on Three Machine Learning Algorithms. *Journal of Chemical Information and Modeling*, **2016**, 56, 1420-37	6.1	31
37	Interactions between molecular solutes and task-specific ionic liquid: Measurements of infinite dilution activity coefficients and modeling. *Journal of Molecular Liquids*, **2016**, 221, 235-244	6	11
36	(Solid+liquid) equilibrium phase diagrams in binary mixtures containing terpenes: New experimental data and analysis of several modelling strategies with modified UNIFAC (Dortmund) and PC-SAFT equation of state. *Fluid Phase Equilibria*, **2016**, 422, 66-77	2.5	19
35	Effect of Cation Structure in Trifluoromethanesulfonate-Based Ionic Liquids: Density, Viscosity, and Aqueous Biphasic Systems Involving Carbohydrates as Salting-Out Agents. *Journal of Chemical & Engineering Data*, **2016**, 61, 1296-1304	2.8	20
34	Thermodynamic Study of Molecular Interactions in Eutectic Mixtures Containing Camphene. *Journal of Physical Chemistry B*, **2016**, 120, 12928-12936	3.4	10
33	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	3.9	27
32	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	2.9	9
31	Solid–liquid phase equilibria in binary mixtures of functionalized ionic liquids with sugar alcohols: New experimental data and modelling. *Fluid Phase Equilibria*, **2015**, 403, 167-175	2.5	11
30	Phase equilibrium and bioproduction of the aroma compound 2-phenylethanol in a biphasic aqueous system. *European Food Research and Technology*, **2015**, 240, 1177-1186	3.4	11
29	Phase diagrams of binary systems containing tricyanomethanide-based ionic liquids and thiophene or pyridine: New experimental data and PC-SAFT modelling. *Fluid Phase Equilibria*, **2015**, 399, 105-114	2.5	19
28	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, 543-51	3.4	27
27	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	3.9	25
26	Viscosity of ionic liquids: an extensive database and a new group contribution model based on a feed-forward artificial neural network. *Journal of Chemical Information and Modeling*, **2014**, 54, 1311-24	6.1	156

25	Measurements, Correlations, and Predictions of Thermodynamic Properties of N-Octylisoquinolinium Thiocyanate Ionic Liquid and Its Aqueous Solutions. *Journal of Chemical & Engineering Data*, **2013**, 58, 285-293	2.8	30
24	Experimental and theoretical study on infinite dilution activity coefficients of various solutes in piperidinium ionic liquids. *Journal of Chemical Thermodynamics*, **2013**, 60, 169-178	2.9	65
23	Synthesis, physical, and thermodynamic properties of 1-alkyl-cyanopyridinium bis{(trifluoromethyl)sulfonyl}imide ionic liquids. *Journal of Chemical Thermodynamics*, **2013**, 56, 153-161	2.9	40
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, 3884-91	3.4	38
21	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*, **2013**, 117, 7034-46	3.4	27
20	Extension of modified UNIFAC (Dortmund) matrix to piperidinium ionic liquids. *Fluid Phase Equilibria*, **2013**, 353, 115-120	2.5	18
19	Sweet-in-Green Systems Based on Sugars and Ionic Liquids: New Solubility Data and Thermodynamic Analysis. *Industrial & Engineering Chemistry Research*, **2013**, 52, 18482-18491	3.9	20
18	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*, **2012**, 51, 12967-12983	3.9	28
17	Heat capacities and excess enthalpies of the (N-hexylisoquinolinium thiocyanate ionic liquid + water) binary systems. *Journal of Chemical Thermodynamics*, **2012**, 55, 144-150	2.9	25
16	Perturbed-chain SAFT as a versatile tool for thermodynamic modeling of binary mixtures containing isoquinolinium ionic liquids. *Journal of Physical Chemistry B*, **2012**, 116, 8191-200	3.4	31
15	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*, **2012**, 51, 591-604	3.9	108
14	Thermodynamic modeling of ionic liquid systems: development and detailed overview of novel methodology based on the PC-SAFT. *Journal of Physical Chemistry B*, **2012**, 116, 5002-18	3.4	88
13	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*, **2011**, 115, 12537-48	3.4	47
12	Limiting activity coefficients and gas-liquid partition coefficients of various solutes in piperidinium ionic liquids: measurements and LSER calculations. *Journal of Physical Chemistry B*, **2011**, 115, 8207-15	3.4	72
11	Physico-chemical properties and phase behaviour of piperidinium-based ionic liquids. *Fluid Phase Equilibria*, **2011**, 303, 1-9	2.5	44
10	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*, **2011**, 56, 881-888	2.8	7
9	Liquid Liquid phase equilibrium of (piperidinium-based ionic liquid+an alcohol) binary systems and modelling with NRHB and PCP-SAFT. *Fluid Phase Equilibria*, **2011**, 305, 43-52	2.5	64
8	Solubility of fragrance raw materials in water: Experimental study, correlations, and Mod. UNIFAC (Do) predictions. *Journal of Chemical Thermodynamics*, **2011**, 43, 28-33	2.9	2

7	(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*, **2011**, 43, 167-171	2.9	5
6	Liquidliquid 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*, **2010**, 55, 3842-3846	2.8	15
5	Gasliquid 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*, **2010**, 42, 707-711	2.9	46
4	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*, **2010**, 42, 1361-1366	2.9	71
3	(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*, **2009**, 278, 90-96	2.5	20
2	Phase equilibria study of the binary systems (N-butyl-3-methylpyridinium tosylate ionic liquid + an alcohol). *Journal of Chemical Thermodynamics*, **2009**, 41, 932-938	2.9	32
1	Phase equilibria study in binary systems (tetra-n-butylphosphonium tosylate ionic liquid + 1-alcohol, or benzene, or n-alkylbenzene). *Journal of Physical Chemistry B*, **2008**, 112, 11054-9	3.4	51