

Kamil Paduszynski

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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	Viscosity of ionic liquids: an extensive database and a new group contribution model based on a feed-forward artificial neural network. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1311-24	6.1	156
59	A New Group Contribution Method For Prediction of Density of Pure Ionic Liquids over a Wide Range of Temperature and Pressure. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 591-604	3.9	108
58	Thermodynamic modeling of ionic liquid systems: development and detailed overview of novel methodology based on the PC-SAFT. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5002-18	3.4	88
57	Limiting activity coefficients and gas-liquid partition coefficients of various solutes in piperidinium ionic liquids: measurements and LSER calculations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8207-15	3.4	72
56	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.. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 1361-1366	2.9	71
55	Experimental and theoretical study on infinite dilution activity coefficients of various solutes in piperidinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013 , 60, 169-178	2.9	65
54	Liquid-liquid phase equilibrium of (piperidinium-based ionic liquid+an alcohol) binary systems and modelling with NRHB and PCP-SAFT. <i>Fluid Phase Equilibria</i> , 2011 , 305, 43-52	2.5	64
53	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. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11835-11850	3.6	59
52	Phase equilibria study in binary systems (tetra-n-butylphosphonium tosylate ionic liquid + 1-alcohol, or benzene, or n-alkylbenzene). <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11054-9	3.4	51
51	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. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12537-48	3.4	47
50	Gas-liquid chromatography measurements of activity coefficients at infinite dilution of various organic solutes and water in tri-iso-butylmethylphosphonium tosylate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 707-711	2.9	46
49	Physico-chemical properties and phase behaviour of piperidinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2011 , 303, 1-9	2.5	44
48	Synthesis, physical, and thermodynamic properties of 1-alkyl-cyanopyridinium bis((trifluoromethyl)sulfonyl)imide ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013 , 56, 153-161	2.9	40
47	Excess enthalpies of mixing of piperidinium ionic liquids with short-chain alcohols: measurements and PC-SAFT modeling. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3884-91	3.4	38
46	Phase equilibria study of the binary systems (N-butyl-3-methylpyridinium tosylate ionic liquid + an alcohol). <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 932-938	2.9	32
45	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. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1420-37	6.1	31
44	Computer-Aided Molecular Design of New Task-Specific Ionic Liquids for Extractive Desulfurization of Gasoline. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9032-9042	8.3	31

43	Perturbed-chain SAFT as a versatile tool for thermodynamic modeling of binary mixtures containing isoquinolinium ionic liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8191-200	3.4	31
42	Measurements, Correlations, and Predictions of Thermodynamic Properties of N-Octylisoquinolinium Thiocyanate Ionic Liquid and Its Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 285-293	2.8	30
41	Heterosegmented Perturbed-Chain Statistical Associating Fluid Theory as a Robust and Accurate Tool for Modeling of Various Alkanes. 1. Pure Fluids. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 12967-12983	3.9	28
40	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. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 543-51	3.4	27
39	Renewable feedstocks in green solvents: thermodynamic study on phase diagrams of D-sorbitol and xylitol with dicyanamide based ionic liquids. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7034-46	3.4	27
38	Separation of 2-Phenylethanol from Water by Liquid-Liquid Extraction with Ionic Liquids: New Experimental Data and Modeling with Modern Thermodynamic Tools. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5736-5747	3.9	27
37	Vapor-Liquid Phase Equilibria and Excess Thermal Properties of Binary Mixtures of Ethylsulfate-Based Ionic Liquids with Water: New Experimental Data, Correlations, and Predictions. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18316-18325	3.9	25
36	Heat capacities and excess enthalpies of the (N-hexylisoquinolinium thiocyanate ionic liquid + water) binary systems. <i>Journal of Chemical Thermodynamics</i> , 2012 , 55, 144-150	2.9	25
35	Effect of Cation Structure in Trifluoromethanesulfonate-Based Ionic Liquids: Density, Viscosity, and Aqueous Biphasic Systems Involving Carbohydrates as Salting-Out Agents. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1296-1304	2.8	20
34	Sweet-in-Green Systems Based on Sugars and Ionic Liquids: New Solubility Data and Thermodynamic Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 18482-18491	3.9	20
33	(Solid + liquid) and (liquid + liquid) phase equilibria measurements and correlation of the binary systems {tri-iso-butyl(methyl)phosphonium tosylate + alcohol, or +hydrocarbon}. <i>Fluid Phase Equilibria</i> , 2009 , 278, 90-96	2.5	20
32	Phase diagrams of binary systems containing tricyanomethanide-based ionic liquids and thiophene or pyridine. New experimental data and PC-SAFT modelling. <i>Fluid Phase Equilibria</i> , 2015 , 399, 105-114	2.5	19
31	(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. <i>Fluid Phase Equilibria</i> , 2016 , 422, 66-77	2.5	19
30	Extraction of 2-Phenylethanol (PEA) from Aqueous Solution Using Ionic Liquids: Synthesis, Phase Equilibrium Investigation, Selectivity in Separation, and Thermodynamic Models. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7689-7698	3.4	19
29	Extensive Databases and Group Contribution QSPRs of Ionic Liquids Properties. 1. Density. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5322-5338	3.9	18
28	Extensive Databases and Group Contribution QSPRs of Ionic Liquids Properties. 2. Viscosity. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17049-17066	3.9	18
27	Extension of modified UNIFAC (Dortmund) matrix to piperidinium ionic liquids. <i>Fluid Phase Equilibria</i> , 2013 , 353, 115-120	2.5	18
26	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. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4016-4028	3.4	17

25	Extraction of butan-1-ol from aqueous solution using ionic liquids: An effect of cation revealed by experiments and thermodynamic models. <i>Separation and Purification Technology</i> , 2018 , 196, 71-81	8.3	17
24	An effect of cation functionalization on thermophysical properties of ionic liquids and solubility of glucose in them [Measurements and PC-SAFT calculations. <i>Journal of Chemical Thermodynamics</i> , 2016 , 92, 81-90	2.9	16
23	Liquid-Liquid Phase Equilibria of Binary Systems Containing Hyperbranched Polymer B-U3000: Experimental Study and Modeling in Terms of Lattice Cluster Theory. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3842-3846	2.8	15
22	(Vapor-liquid) phase equilibria of an aqueous solution of bromide-based ionic liquids [measurements, correlations and application to absorption cycles. <i>Fluid Phase Equilibria</i> , 2019 , 494, 201-217	2.5	13
21	Extensive Evaluation of Performance of the COSMO-RS Approach in Capturing Liquid-Liquid Equilibria of Binary Mixtures of Ionic Liquids with Molecular Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11851-11863	3.9	12
20	Solid-Liquid phase equilibria in binary mixtures of functionalized ionic liquids with sugar alcohols: New experimental data and modelling. <i>Fluid Phase Equilibria</i> , 2015 , 403, 167-175	2.5	11
19	Phase equilibrium and bioproduction of the aroma compound 2-phenylethanol in a biphasic aqueous system. <i>European Food Research and Technology</i> , 2015 , 240, 1177-1186	3.4	11
18	Interactions between molecular solutes and task-specific ionic liquid: Measurements of infinite dilution activity coefficients and modeling. <i>Journal of Molecular Liquids</i> , 2016 , 221, 235-244	6	11
17	COSMO-RS screening for ionic liquid to be applied in extraction of 2-phenylethanol from aqueous solutions. <i>Journal of Molecular Liquids</i> , 2018 , 271, 305-312	6	11
16	Effect of Side Chain Functional Group on Interactions in Ionic Liquid Systems: Insights from Infinite Dilution Thermodynamic Data. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10133-10145	3.4	10
15	Thermodynamic Study of Molecular Interactions in Eutectic Mixtures Containing Camphene. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12928-12936	3.4	10
14	Measurements and equation-of-state modelling of thermodynamic properties of binary mixtures of 1-butyl-1-methylpyrrolidinium tetracyanoborate ionic liquid with molecular compounds. <i>Journal of Chemical Thermodynamics</i> , 2015 , 90, 317-326	2.9	9
13	An effect of cation's cyano group on interactions between organic solutes and ionic liquids elucidated by thermodynamic data at infinite dilution. <i>Journal of Molecular Liquids</i> , 2017 , 243, 726-736	6	8
12	Measurements, Correlations, and Mod. UNIFAC (Do) Prediction of (Solid-Liquid) Phase Equilibria Diagrams in Binary Systems (Aliphatic Ketone + an Alcohol). <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 881-888	2.8	7
11	Extensive Databases and Group Contribution QSPRs of Ionic Liquid Properties. 3: Surface Tension. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 5705-5720	3.9	7
10	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	6	6
9	Phase Diagrams in Representative Terpenoid Systems: Measurements and Calculations with Leading Thermodynamic Models. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9753-9761	3.9	6
8	New solvents for metal extraction [NADES. Prediction and optimization of efficient extraction of selected metals by ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021 , 36, 946-953	3.7	6

7	(Liquid + liquid) equilibria of binary systems containing hyperbranched polymer Boltorn [®] H2004. Experimental study and modelling in terms of lattice-cluster theory. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 167-171	2.9	5
6	Thermodynamic Modeling of Multicomponent Liquid-Liquid Equilibria in Ionic Liquid Systems with PC-SAFT Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5413-5432	3.9	4
5	Vapor Pressure and Physicochemical Properties of {LiBr + IL-Based Additive + Water} Mixtures: Experimental Data and COSMO-RS Predictions. <i>Journal of Solution Chemistry</i> , 2021 , 50, 473-502	1.8	4
4	Predicting melting point of ionic liquids using QSPR approach: Literature review and new models. <i>Journal of Molecular Liquids</i> , 2021 , 117631	6	3
3	COSMO-RS predicted 1-octanol/water partition coefficient as useful ion descriptor for predicting phase behavior of aqueous solutions of ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 307, 112914	6	2
2	Solubility of fragrance raw materials in water: Experimental study, correlations, and Mod. UNIFAC (Do) predictions. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 28-33	2.9	2
1	New phase equilibrium data at ambient and high pressure for strongly asymmetric mixtures containing menthol. <i>Journal of Molecular Liquids</i> , 2019 , 286, 110819	6	1