

Fabrice Mutelet

List of Publications by Year in descending order

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72
papers

2,989
citations

147726

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168321

53
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72
docs citations

72
times ranked

1729
citing authors

#	ARTICLE	IF	CITATIONS
1	Partition Coefficients of Organic Compounds in New Imidazolium and Tetralkylammonium Based Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 234-242.	1.0	148
2	Extraction of Benzene or Thiophene from <i>n</i> -Heptane Using Ionic Liquids. NMR and Thermodynamic Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4600-4608.	1.2	141
3	Accurate measurements of thermodynamic properties of solutes in ionic liquids using inverse gas chromatography. <i>Journal of Chromatography A</i> , 2006, 1102, 256-267.	1.8	137
4	High Carbon Dioxide Solubilities in Imidazolium-Based Ionic Liquids and in Poly(ethylene glycol) Dimethyl Ether. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12908-12913.	1.2	122
5	Modeling the Solubility of Carbon Dioxide in Imidazolium-Based Ionic Liquids with the PC-SAFT Equation of State. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14375-14388.	1.2	112
6	Measurement of activity coefficients at infinite dilution in 1-hexadecyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1144-1150.	1.0	95
7	Study of Ether-, Alcohol-, or Cyano-Functionalized Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2434-2443.	1.0	88
8	Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Butyl-3-methylimidazolium Tetrafluoroborate Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 90-101.	1.0	86
9	Activity Coefficients at Infinite Dilution of Organic Compounds in Trihexyl(tetradecyl)phosphonium Bis(trifluoromethylsulfonyl)imide Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 977-985.	1.0	83
10	Deep Fuels Desulfurization and Denitrogenation Using 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate. <i>Energy & Fuels</i> , 2011, 25, 1559-1565.	2.5	82
11	Vapor-Liquid Equilibria of Water + Alkylimidazolium-Based Ionic Liquids: Measurements and Perturbed-Chain Statistical Associating Fluid Theory Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3737-3748.	1.8	82
12	Activity Coefficients at Infinite Dilution of Organic Compounds in Four New Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3106-3114.	1.0	81
13	Activity Coefficients at Infinite Dilution of Organic Compounds in 1-(Meth)acryloyloxyalkyl-3-methylimidazolium Bromide Using Inverse Gas Chromatography. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3773-3785.	1.2	79
14	Solubility of CO ₂ in branched alkanes in order to extend the PPR78 model (predictive 1978,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T</i>	1.4	75
15	Partition coefficients of organic compounds in new imidazolium based ionic liquids using inverse gas chromatography. <i>Journal of Chromatography A</i> , 2009, 1216, 4775-4786.	1.8	75
16	Doxorubicin-Loaded Thermoresponsive Superparamagnetic Nanocarriers for Controlled Drug Delivery and Magnetic Hyperthermia Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30610-30620.	4.0	75
17	Activity Coefficients at Infinite Dilution for Organic Compounds Dissolved in 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Having Six-, Eight-, and Ten-Carbon Alkyl Chains. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3510-3518.	1.0	73
18	Activity Coefficients at Infinite Dilution for Organic Solutes Dissolved in Three 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Bearing Short Linear Alkyl Side Chains of Three to Five Carbons. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 2210-2218.	1.0	72

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19	Prediction of Partition Coefficients of Organic Compounds in Ionic Liquids: Use of a Linear Solvation Energy Relationship with Parameters Calculated through a Group Contribution Method. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 3883-3892.	1.8	67
20	Thermodynamic Properties of Mixtures Containing Ionic Liquids: Activity Coefficients at Infinite Dilution of Organic Compounds in 1-Propyl Boronic Acid-3-Alkylimidazolium Bromide and 1-Propenyl-3-alkylimidazolium Bromide Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1274-1279.	1.0	64
21	Partition Coefficients of Organic Compounds in Four New Tetraalkylammonium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Using Inverse Gas Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3688-3697.	1.0	54
22	Performance of an absorption heat transformer using new working binary systems composed of {ionic liquid and water}. <i>Applied Thermal Engineering</i> , 2016, 94, 579-589.	3.0	51
23	Experimental and theoretically study of interaction between organic compounds and tricyanomethanide based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2015, 85, 49-56.	1.0	47
24	Activity coefficients at infinite dilution for organic solutes dissolved in two 1-alkylquinuclidinium bis(trifluoromethylsulfonyl)imides bearing alkyl side chains of six and eight carbons. <i>Journal of Molecular Liquids</i> , 2016, 215, 176-184.	2.3	46
25	Solubility of carbon dioxide, nitrous oxide and methane in ionic liquids at pressures close to atmospheric. <i>Fluid Phase Equilibria</i> , 2014, 372, 26-33.	1.4	45
26	Separation of phenols from lignin pyrolysis oil using ionic liquid. <i>Separation and Purification Technology</i> , 2019, 209, 528-534.	3.9	45
27	Studies on the Dissolution of Glucose in Ionic Liquids and Extraction Using the Antisolvent Method. <i>Environmental Science & Technology</i> , 2013, 47, 2809-2816.	4.6	44
28	Extraction of phenolic compounds from aqueous solution using choline bis(trifluoromethylsulfonyl)imide. <i>Fluid Phase Equilibria</i> , 2017, 446, 28-35.	1.4	40
29	Extraction of <i>n</i> -Alcohols from <i>n</i> -Heptane Using Ionic Liquids.. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3873-3880.	1.0	38
30	Infinite Dilution Activity Coefficients of Solutes Dissolved in Two Trihexyl(tetradecyl)phosphonium Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1877-1885.	1.0	38
31	Evaluation of the Performance of Trigeminal Tricationic Ionic Liquids for Separation Problems. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 918-927.	1.0	33
32	Prediction of Partition Coefficients of Organic Compounds in Ionic Liquids Using a Temperature-Dependent Linear Solvation Energy Relationship with Parameters Calculated through a Group Contribution Method. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3598-3606.	1.0	32
33	Study of benzyl- or cyclohexyl-functionalized ionic liquids using inverse gas chromatography. <i>Journal of Molecular Liquids</i> , 2017, 242, 550-559.	2.3	31
34	Infinite Dilution Activity Coefficients and Gas-to-Liquid Partition Coefficients of Organic Solutes Dissolved in 1-Benzylpyridinium Bis(Trifluoromethylsulfonyl)Imide and 1-Cyclohexylmethyl-1-Methylpyrrolidinium Bis(Trifluoromethylsulfonyl)Imide. <i>Journal of Solution Chemistry</i> , 2018, 47, 308-335.	0.6	31
35	Infinite dilution activity coefficients and gas-to-liquid partition coefficients of organic solutes dissolved in 1- <i>sec</i> -butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide and in 1- <i>tert</i> -butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Physics and Chemistry of Liquids</i> , 2019, 57, 453-472.	0.4	29
36	Activity coefficients at infinite dilution for organic solutes dissolved in two 1,2,3-tris(diethylamino)cyclopenylium based room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 223, 89-99.	2.3	28

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37	(Vapor+liquid) equilibria of binary mixtures containing light alcohols and ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 177-181.	1.0	26
38	Experimental Measurement and Modeling of Phase Diagrams of Binary Systems Encountered in the Gasoline Desulfurization Process Using Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 603-612.	1.0	26
39	Infinite dilution activity coefficients of solutes dissolved in anhydrous alkyl(dimethyl)isopropylammonium bis(trifluoromethylsulfonyl)imide ionic liquids containing functionalized- and nonfunctionalized-alkyl chains. <i>Journal of Molecular Liquids</i> , 2016, 222, 295-312.	2.3	26
40	Antioxidant properties of phenolic surrogates of lignin depolymerisation. <i>Industrial Crops and Products</i> , 2019, 129, 480-487.	2.5	25
41	From the dissolution to the extraction of carbohydrates using ionic liquids. <i>RSC Advances</i> , 2013, 3, 20219.	1.7	24
42	Experimental and theoretical study of carbohydrate-ionic liquid interactions. <i>Carbohydrate Polymers</i> , 2015, 127, 316-324.	5.1	24
43	Measurements of activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-ethyl-3-methylimidazolium ethylphosphonate [EMIM][(EtO)(H)PO ₂] using gas-liquid chromatography. <i>Journal of Molecular Liquids</i> , 2016, 220, 243-247.	2.3	23
44	Phase equilibria of phenolic compounds in water or ethanol. <i>Fluid Phase Equilibria</i> , 2017, 453, 58-66.	1.4	22
45	Evaluation of miscanthus pretreatment effect by Choline chloride based Deep Eutectic solvents on bioethanol production. <i>Bioresource Technology</i> , 2022, 345, 126460.	4.8	22
46	Pretreatment of miscanthus using 1,3-dimethyl-imidazolium methyl phosphonate (DMIMMPH) ionic liquid for glucose recovery and ethanol production. <i>RSC Advances</i> , 2015, 5, 61455-61464.	1.7	21
47	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.	1.4	20
48	Study of interaction between organic compounds and mono or dicationic oxygenated ionic liquids using gas chromatography. <i>Fluid Phase Equilibria</i> , 2015, 387, 59-72.	1.4	19
49	Carbon dioxide solubilities in tricyanomethanide-based ionic liquids: Measurements and PC-SAFT modeling. <i>Fluid Phase Equilibria</i> , 2018, 469, 48-55.	1.4	19
50	Solubility of CO ₂ in 1-butyl-3-methylimidazolium diethylene-glycolmonomethylethersulfate and trihexyl(tetradecyl)phosphonium dodecyl-benzenesulfonate. <i>Fluid Phase Equilibria</i> , 2013, 354, 191-198.	1.4	18
51	Thermodynamic properties assessment of working mixtures {water+Alkylphosphonate based ionic liquids} as innovative alternatives working pairs for absorption heat transformers. <i>Applied Thermal Engineering</i> , 2020, 181, 115943.	3.0	18
52	Characterization of the solubilizing ability of tetraalkylammonium ionic liquids containing a pendant alkyl chain bearing a basic N,N-dimethylamino or N,N-dimethylaminoethoxy functionality. <i>Journal of Molecular Liquids</i> , 2019, 283, 380-390.	2.3	17
53	Activity coefficients at infinite dilution of organic solutes in methylphosphonate based ionic liquids using gas-liquid chromatography. <i>Journal of Chemical Thermodynamics</i> , 2015, 86, 116-122.	1.0	16
54	Measurement and correlation of vapour pressures of pyridine and thiophene with [EMIM][SCN] ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2014, 72, 134-138.	1.0	15

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55	Liquidâ€“Liquid Equilibria for the Ternary Systems Dodecane + Toluene or Thiophene or Pyridine + 1-Ethyl-3-methylimidazolium Methyl Sulfate. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1749-1755.	1.0	15
56	Solubility of Carbon Dioxide in Carboxylic Acid-Based Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 702-711.	1.0	14
57	Aggregation of nanoparticles in aqueous solutions of ionic liquids. <i>Journal of Molecular Liquids</i> , 2013, 186, 1-6.	2.3	13
58	Capacity Enhancement of Ionic Liquids-Based Nanofluid for Fuels Desulfurization Purposes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 14718-14726.	1.8	13
59	Computational study on the molecular conformations of phenolic compounds. <i>Structural Chemistry</i> , 2018, 29, 179-194.	1.0	11
60	Extraction of butanol and acetonitrile from aqueous solution using carboxylic acid based deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2021, 325, 115231.	2.3	10
61	Are Ionic Liquids Suitable as New Components in Working Mixtures for Absorption Heat Transformers?. , 0, , .		9
62	Characterization of the solubilizing ability of short-chained glycol-grafted ammonium and phosphonium ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 304, 112786.	2.3	9
63	Experimental and theoretical study of interaction between organic compounds and 1-(4-sulfobutyl)-3-methylimidazolium based ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 378, 34-43.	1.4	8
64	Characterization of bis(fluorosulfonyl)imide based ionic liquids by gas chromatography. <i>Journal of Molecular Liquids</i> , 2019, 289, 111169.	2.3	8
65	Development of Abraham model correlations for short-chain glycol-grafted imidazolium and pyridinium ionic liquids from inverse gas-chromatographic measurements. <i>Journal of Molecular Liquids</i> , 2020, 317, 113983.	2.3	8
66	Effect of the Addition of Amine in Organophosphorus Compounds on Molecular Structuration of Ionic Liquidsâ€“Application to Solvent Extraction. <i>Molecules</i> , 2020, 25, 2584.	1.7	6
67	Thermodynamic Properties of Tricyanomethanide-Based Ionic Liquids with Water: Experimental and Modelling. <i>Journal of Solution Chemistry</i> , 2021, 50, 517-543.	0.6	6
68	Computational study of phenolic compounds-water clusters. <i>Structural Chemistry</i> , 2018, 29, 625-643.	1.0	3
69	Extraction of organic compounds from Aqueous Solution Using Choline bis (trifluoromethylsulfonyl) imide. <i>Journal of Molecular Liquids</i> , 2022, 360, 119432.	2.3	3
70	Extracting capacity of ionic liquids adsorbed at the surface of alumina nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 338, 47-50.	2.3	2
71	Use of Ionic Liquids for the Treatment of Biomass Materials and Biofuel Production. , 2017, , .		1
72	Temperature-Dependent Linear Solvation Energy Relationship for the Determination of Gas-Liquid Partition Coefficients of Organic Compounds in Ionic Liquids. , 0, , .		0