

Francisco Rodriguez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144
papers

5,011
citations

44
h-index

62
g-index

145
ext. papers

5,613
ext. citations

4.8
avg, IF

5.82
L-index

#	Paper	IF	Citations
144	Organosolv and ionosolv processes for autohydrolyzed poplar fractionation: Lignin recovery and characterization.. <i>International Journal of Biological Macromolecules</i> , 2021 , 197, 131-131	7.9	1
143	Technoeconomic Assessment of a Biomass Pretreatment + Ionic Liquid Recovery Process with Aprotic and Choline Derived Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8467-8476	8.3	7
142	Tetrathiocyanatocobaltate and bis(trifluoromethylsulfonyl)imide-based ionic liquids as mass agents in the separation of cyclohexane and cyclohexene mixtures by homogeneous extractive distillation. <i>Journal of Chemical Thermodynamics</i> , 2021 , 157, 106403	2.9	0
141	Thermal degradation kinetics of a lignin particle-reinforced phenolic foam. <i>Journal of Cellular Plastics</i> , 2021 , 57, 176-192	1.5	3
140	Cellulose ionogels, a perspective of the last decade: A review. <i>Carbohydrate Polymers</i> , 2021 , 274, 118663	10.3	5
139	Experimental screening of ionic liquids as mass agents in the n-hexane/1-hexene extractive distillation. <i>Fluid Phase Equilibria</i> , 2021 , 549, 113205	2.5	2
138	Acidic depolymerization vs ionic liquid solubilization in lignin extraction from eucalyptus wood using the protic ionic liquid 1-methylimidazolium chloride. <i>International Journal of Biological Macromolecules</i> , 2020 , 157, 461-469	7.9	29
137	High pressure density of tricyanomethanide-based ionic liquids: Experimental and PC-SAFT modelling. <i>Fluid Phase Equilibria</i> , 2020 , 520, 112652	2.5	4
136	Enhanced separation of benzene and cyclohexane by homogeneous extractive distillation using ionic liquids as entrainers. <i>Separation and Purification Technology</i> , 2020 , 240, 116583	8.3	27
135	Chitosan-reinforced cellulosic bionogels: Viscoelastic and antibacterial properties. <i>Carbohydrate Polymers</i> , 2020 , 229, 115569	10.3	14
134	A biorefinery strategy for the manufacture and characterization of oligosaccharides and antioxidants from poplar hemicelluloses. <i>Food and Bioproducts Processing</i> , 2020 , 123, 398-408	4.9	7
133	. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15058-15068	3.9	4
132	Separation of benzene from methylcycloalkanes by extractive distillation with cyano-based ionic liquids: Experimental and CPA EoS modelling. <i>Separation and Purification Technology</i> , 2020 , 234, 116128	8.3	13
131	Protic, Aprotic, and Choline-Derived Ionic Liquids: Toward Enhancing the Accessibility of Hardwood and Softwood. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1362-1370	8.3	15
130	Toward Modeling the Aromatic/Aliphatic Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids Using CPA EoS. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19681-19692	3.9	7
129	Application of microscopy techniques for a better understanding of biomass pretreatment. <i>Industrial Crops and Products</i> , 2019 , 138, 111466	5.9	7
128	Aliphatic and aromatic hydrocarbon diffusion coefficients at infinite dilution in [emim][DCA] and [4empy][Tf2N] ionic liquids. <i>Journal of Molecular Liquids</i> , 2019 , 288, 111082	6	2

127	Cyclohexane/cyclohexene separation by extractive distillation with cyano-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2019 , 289, 111120	6	22
126	Autohydrolysis and microwave ionic liquid pretreatment of <i>Pinus radiata</i> : Imaging visualization and analysis to understand enzymatic digestibility. <i>Industrial Crops and Products</i> , 2019 , 134, 328-337	5.9	19
125	Insights into Ionic Liquid/Aromatic Systems from NMR Spectroscopy: How Water Affects Solubility and Intermolecular Interactions. <i>ChemPlusChem</i> , 2019 , 84, 872-881	2.8	5
124	Viscoelastic properties of physical cellulosic bionogels of cholinium lysinate. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 262-269	7.9	8
123	Impact of water on the [C4C1im][Ac] ability for the CO ₂ /CH ₄ separation. <i>Journal of CO₂ Utilization</i> , 2019 , 31, 115-123	7.6	6
122	Dearomatization of pyrolysis gasoline by extractive distillation with 1-ethyl-3-methylimidazolium tricyanomethanide. <i>Fuel Processing Technology</i> , 2019 , 195, 106156	7.2	16
121	Ecotoxicity evaluation towards <i>Vibrio fischeri</i> of imidazolium- and pyridinium-based ionic liquids for their use in separation processes. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	15
120	Developing a new correlation for the aliphatic and aromatic hydrocarbon diffusion coefficients at infinite dilution in ionic liquids. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111857	6	1
119	Two-step fractionation of <i>Pinus radiata</i> by autohydrolysis and organosolv delignification for enzymatic hydrolysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3951-3959	3.5	7
118	High-Pressure Density of Bis(1-alkyl-3-methylimidazolium) Tetraisothiocyanatocobaltate Ionic Liquids: Experimental and PC-SAFT with Volume-Shift Modeling. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4827-4833	2.8	1
117	Imidazolium and pyridinium-based ionic liquids for the cyclohexane/cyclohexene separation by liquid-liquid extraction. <i>Journal of Chemical Thermodynamics</i> , 2019 , 131, 340-346	2.9	24
116	Tuning the rheological properties of cellulosic ionogels reinforced with chitosan: The role of the deacetylation degree. <i>Carbohydrate Polymers</i> , 2019 , 207, 775-781	10.3	12
115	Effect of autohydrolysis on <i>Pinus radiata</i> wood for hemicellulose extraction. <i>Carbohydrate Polymers</i> , 2018 , 194, 285-293	10.3	21
114	Novel Process to Reduce Benzene, Thiophene, and Pyrrole in Gasoline Based on [4bmpy][TCM] Ionic Liquid. <i>Energy & Fuels</i> , 2018 , 32, 5650-5658	4.1	10
113	Experimental screening towards developing ionic liquid-based extractive distillation in the dearomatization of refinery streams. <i>Separation and Purification Technology</i> , 2018 , 201, 268-275	8.3	27
112	Thermal stability of choline chloride deep eutectic solvents by TGA/FTIR-ATR analysis. <i>Journal of Molecular Liquids</i> , 2018 , 260, 37-43	6	143
111	COSMO-based/Aspen Plus process simulation of the aromatic extraction from pyrolysis gasoline using the {[4empy][NTf2] + [emim][DCA]} ionic liquid mixture. <i>Separation and Purification Technology</i> , 2018 , 190, 211-227	8.3	45
110	Evaluation of hardwood and softwood fractionation using autohydrolysis and ionic liquid microwave pretreatment. <i>Biomass and Bioenergy</i> , 2018 , 117, 190-197	5.3	30

109	Combining autohydrolysis and ionic liquid microwave treatment to enhance enzymatic hydrolysis of Eucalyptus globulus wood. <i>Bioresource Technology</i> , 2018 , 251, 197-203	11	28
108	On the volatility of aromatic hydrocarbons in ionic liquids: Vapor-liquid equilibrium measurements and theoretical analysis. <i>Journal of Molecular Liquids</i> , 2018 , 250, 9-18	6	9
107	Choline Chloride-Based Deep Eutectic Solvents in the Dearomatization of Gasolines. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1039-1047	8.3	50
106	Toluene/n-Heptane Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids: Experimental and CPA EoS Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14242-14253	3.9	24
105	Thermal and kinetics of the degradation of chitosan with different deacetylation degrees under oxidizing atmosphere. <i>Thermochimica Acta</i> , 2018 , 670, 18-26	2.9	9
104	Extraction of aromatic hydrocarbons from pyrolysis gasoline using tetrathiocyanatocobaltate-based ionic liquids: Experimental study and simulation. <i>Fuel Processing Technology</i> , 2017 , 159, 96-110	7.2	24
103	Extraction and recovery process to selectively separate aromatics from naphtha feed to ethylene crackers using 1-ethyl-3-methylimidazolium thiocyanate ionic liquid. <i>Chemical Engineering Research and Design</i> , 2017 , 120, 102-112	5.5	18
102	Recovery and Reuse of 1-Allyl-3-methylimidazolium Chloride in the Fractionation of Pinus radiata Wood. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2384-2392	8.3	14
101	New Experimental Data and Modeling of Glymes: Toward the Development of a Predictive Model for Polyethers. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7830-7844	3.9	16
100	Design of the recovery section of the extracted aromatics in the separation of BTEX from naphtha feed to ethylene crackers using [4empy][Tf2N] and [emim][DCA] mixed ionic liquids as solvent. <i>Separation and Purification Technology</i> , 2017 , 180, 149-156	8.3	34
99	Dearomatization of pyrolysis gasoline with an ionic liquid mixture: Experimental study and process simulation. <i>AIChE Journal</i> , 2017 , 63, 4054-4065	3.6	9
98	Design of the Hydrocarbon Recovery Section from the Extract Stream of the Aromatic Separation from Reformer and Pyrolysis Gasolines Using a Binary Mixture of [4empy][Tf2N] + [emim][DCA] Ionic Liquids. <i>Energy & Fuels</i> , 2017 , 31, 1035-1043	4.1	17
97	Non-ideal behavior of ionic liquid mixtures to enhance CO2 capture. <i>Fluid Phase Equilibria</i> , 2017 , 450, 175-183	2.5	28
96	A comparative study of pure ionic liquids and their mixtures as potential mass agents in the separation of hydrocarbons. <i>Journal of Molecular Liquids</i> , 2016 , 222, 118-124	6	15
95	Vapor-Liquid Equilibria for (n-Hexane, n-Octane, Cyclohexane, or 2,3-Dimethylpentane) + Toluene + {[4empy][Tf2N] (0.3) + [emim][DCA] (0.7)} Mixed Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2440-2449	2.8	10
94	Vapor-Liquid Equilibria of n-Heptane + Toluene + 1-Ethyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 458-465	2.8	9
93	Dicyanamide-based ionic liquids in the liquid-liquid extraction of aromatics from alkanes: Experimental evaluation and computational predictions. <i>Chemical Engineering Research and Design</i> , 2016 , 109, 561-572	5.5	44
92	Selective recovery of aliphatics from aromatics in the presence of the {[4empy][Tf2N] + [emim][DCA]} ionic liquid mixture. <i>Journal of Chemical Thermodynamics</i> , 2016 , 96, 134-142	2.9	31

91	Vapor-liquid equilibria for n-heptane + [(benzene, toluene, p-xylene, or ethylbenzene) + ([4empy][Tf2N] (0.3) + [emim][DCA] (0.7))] binary ionic liquid mixture. <i>Fluid Phase Equilibria</i> , 2016 , 417, 41-49	2.5	14
90	Recovery of tyrosol from aqueous streams using hydrophobic ionic liquids: a first step towards developing sustainable processes for olive mill wastewater (OMW) management. <i>RSC Advances</i> , 2016 , 6, 18751-18762	3.7	25
89	Separation of aromatics from n-alkanes using tricyanomethanide-based ionic liquids: Liquid-liquid extraction, vapor-liquid separation, and thermophysical characterization. <i>Journal of Molecular Liquids</i> , 2016 , 223, 880-889	6	41
88	Separation of BTEX from a naphtha feed to ethylene crackers using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Separation and Purification Technology</i> , 2015 , 144, 54-62	8.3	30
87	Thermal stability and specific heats of {[bpy][BF4] + [bpy][Tf2N]} and {[bpy][BF4] + [4bmpy][Tf2N]} mixed ionic liquid solvents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 119, 1235-1243	4.1	11
86	Dearomatization of pyrolysis gasolines from mild and severe cracking by liquid-liquid extraction using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Fuel Processing Technology</i> , 2015 , 137, 269-282	7.2	28
85	Lignin particle- and wood flour-reinforced phenolic foams: Friability, thermal stability and effect of hydrothermal aging on mechanical properties and morphology. <i>Composites Part B: Engineering</i> , 2015 , 80, 154-161	10	35
84	Mechanical, thermal and morphological characterization of cellulose fiber-reinforced phenolic foams. <i>Composites Part B: Engineering</i> , 2015 , 75, 367-372	10	46
83	Use of selective ionic liquids and ionic liquid/salt mixtures as entrainer in a (vapor + liquid) system to separate n-heptane from toluene. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 156-164	2.9	20
82	Mixing and decomposition behavior of {[4bmpy][Tf2N] + [emim][EtSO4]} and {[4bmpy][Tf2N] + [emim][TFES]} ionic liquid mixtures. <i>Journal of Chemical Thermodynamics</i> , 2015 , 82, 58-75 ⁹	2.9	28
81	Effect of fiber loading on the properties of treated cellulose fiber-reinforced phenolic composites. <i>Composites Part B: Engineering</i> , 2015 , 68, 185-192	10	62
80	Optimization of the silane treatment of cellulosic fibers from eucalyptus wood using response surface methodology. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	14
79	Vapor-liquid equilibria of {n-heptane + toluene + [emim][DCA]} system by headspace gas chromatography. <i>Fluid Phase Equilibria</i> , 2015 , 387, 209-216	2.5	42
78	Effects of formulation variables on density, compressive mechanical properties and morphology of wood flour-reinforced phenolic foams. <i>Composites Part B: Engineering</i> , 2014 , 56, 546-552	10	43
77	Solubility and Diffusivity of CO ₂ in [hxmim][NTf ₂], [omim][NTf ₂], and [dcmim][NTf ₂] at T = (298.15, 308.15, and 323.15) K and Pressures up to 20 bar. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 212-217	2.8	36
76	Selective extraction of toluene from n-heptane using [emim][SCN] and [bmim][SCN] ionic liquids as solvents. <i>Journal of Chemical Thermodynamics</i> , 2014 , 79, 266-271	2.9	64
75	Mechanical and interfacial properties of phenolic composites reinforced with treated cellulose fibers. <i>Polymer Engineering and Science</i> , 2014 , 54, 2228-2238	2.3	11
74	Excess enthalpy of monoethanolamine + ionic liquid mixtures: how good are COSMO-RS predictions?. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11512-22	3.4	55

73	Extraction of benzene, ethylbenzene, and xylenes from n-heptane using binary mixtures of [4empy][Tf2N] and [emim][DCA] ionic liquids. <i>Fluid Phase Equilibria</i> , 2014 , 380, 1-10	2.5	20
72	Liquid-Liquid Extraction of BTEX from Reformer Gasoline Using Binary Mixtures of [4empy][Tf2N] and [emim][DCA] Ionic Liquids. <i>Energy & Fuels</i> , 2014 , 28, 6666-6676	4.1	43
71	Diffusion Coefficients of CO ₂ in Ionic Liquids Estimated by Gravimetry. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13782-13789	3.9	47
70	Liquid-Liquid Extraction of Toluene from n-Alkanes using {[4empy][Tf2N] + [emim][DCA]} Ionic Liquid Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1692-1699	2.8	26
69	Thermal stability and specific heats of {[emim][DCA]+[emim][TCM]} mixed ionic liquids. <i>Thermochimica Acta</i> , 2014 , 588, 22-27	2.9	27
68	Thermal stability, specific heats, and surface tensions of ([emim][DCA]+[4empy][Tf2N]) ionic liquid mixtures. <i>Journal of Chemical Thermodynamics</i> , 2014 , 76, 152-160	2.9	37
67	Liquid-Liquid extraction of toluene from n-heptane by {[emim][TCM]+[emim][DCA]} binary ionic liquid mixtures. <i>Fluid Phase Equilibria</i> , 2014 , 364, 48-54	2.5	51
66	Thermal Properties of Cyano-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2187-2193	2.8	111
65	Separation of toluene from n-heptane, 2,3-dimethylpentane, and cyclohexane using binary mixtures of [4empy][Tf2N] and [emim][DCA] ionic liquids as extraction solvents. <i>Separation and Purification Technology</i> , 2013 , 120, 392-401	8.3	52
64	Liquid-Liquid Extraction of Toluene from Heptane Using [emim][DCA], [bmim][DCA], and [emim][TCM] Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2714-2720	3.9	138
63	Liquid-Liquid extraction of toluene from heptane by {[4bmpy][Tf2N]+[emim][CHF2CF2SO3]} ionic liquid mixed solvents. <i>Fluid Phase Equilibria</i> , 2013 , 337, 47-52	2.5	18
62	Selection of ionic liquids for enhancing the gas solubility of volatile organic compounds. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 296-306	3.4	61
61	Anion effects on kinetics and thermodynamics of CO ₂ absorption in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3398-406	3.4	58
60	Physical Characterization of an Aromatic Extraction Solvent Formed by [bpy][BF4] and [4bmpy][Tf2N] Mixed Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1496-1504	2.8	33
59	Relation between differential solubility of cellulose and lignin in ionic liquids and activity coefficients. <i>RSC Advances</i> , 2013 , 3, 3453	3.7	44
58	Dissolution of Pinus radiata and Eucalyptus Globulus Woods in 1-Allyl-3-methylimidazolium Chloride for Cellulose or Lignin Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3628-3636	3.9	14
57	Alkali treatment of viscose cellulosic fibers from eucalyptus wood: Structural, morphological, and thermal analysis. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 2198-2204	2.9	29
56	Comparison of lignin and cellulose solubilities in ionic liquids by COSMO-RS analysis and experimental validation. <i>Industrial Crops and Products</i> , 2012 , 37, 155-163	5.9	74

55	Alkylsulfate-based ionic liquids in the liquid-liquid extraction of aromatic hydrocarbons. <i>Journal of Chemical Thermodynamics</i> , 2012 , 45, 68-74	2.9	30
54	Separation of toluene from n-heptane by liquid-liquid extraction using binary mixtures of [bpy][BF4] and [4bmpy][Tf2N] ionic liquids as solvent. <i>Journal of Chemical Thermodynamics</i> , 2012 , 53, 119-124	2.9	31
53	FTIR analysis of lignin regenerated from <i>Pinus radiata</i> and <i>Eucalyptus globulus</i> woods dissolved in imidazolium-based ionic liquids. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 472-480	3.5	68
52	Physical Properties of N-Butylpyridinium Tetrafluoroborate and N-Butylpyridinium Bis(trifluoromethylsulfonyl)imide Binary Ionic Liquid Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1318-1325	2.8	63
51	COSMO-RS Studies: Structure-Property Relationships for CO ₂ Capture by Reversible Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16066-16073	3.9	57
50	Modelling of Hydrocarbon Solubility in Isomeric Ionic Liquids Using Mathematical Regressions. <i>Separation Science and Technology</i> , 2012 , 47, 392-398	2.5	
49	Screening ionic liquids as suitable ammonia absorbents on the basis of thermodynamic and kinetic analysis. <i>Separation and Purification Technology</i> , 2012 , 95, 188-195	8.3	63
48	Separation of Toluene and Heptane by Liquid-Liquid Extraction Using Binary Mixtures of the Ionic Liquids 1-Butyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide and 1-Ethyl-3-methylimidazolium Ethylsulfate. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2472-2478	2.8	9
47	Physical Properties of Binary and Ternary Mixtures of 2-Propanol, Water, and 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1165-1173	2.8	48
46	Liquid-liquid extraction of toluene from n-heptane using binary mixtures of N-butylpyridinium tetrafluoroborate and N-butylpyridinium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Chemical Engineering Journal</i> , 2012 , 180, 210-215	14.7	53
45	Task-specific ionic liquids for efficient ammonia absorption. <i>Separation and Purification Technology</i> , 2011 , 82, 43-52	8.3	114
44	Application of lag-k autocorrelation coefficient and the TGA signals approach to detecting and quantifying adulterations of extra virgin olive oil with inferior edible oils. <i>Analytica Chimica Acta</i> , 2011 , 688, 140-5	6.6	7
43	Efficient biodegradation of common ionic liquids by <i>Sphingomonas paucimobilis</i> bacterium. <i>Green Chemistry</i> , 2011 , 13, 709	10	56
42	Understanding the Physical Absorption of CO ₂ in Ionic Liquids Using the COSMO-RS Method. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3452-3463	3.9	148
41	CO ₂ /N ₂ Selectivity Prediction in Supported Ionic Liquid Membranes (SILMs) by COSMO-RS. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 5739-5748	3.9	82
40	N-butylpyridinium bis-(trifluoromethylsulfonyl)imide ionic liquids as solvents for the liquid-liquid extraction of aromatics from their mixtures with alkanes: Isomeric effect of the cation. <i>Fluid Phase Equilibria</i> , 2011 , 301, 62-66	2.5	49
39	Quantification of adulterant agents in extra virgin olive oil by models based on its thermophysical properties. <i>Journal of Food Engineering</i> , 2011 , 103, 211-218	6	21
38	(Liquid+liquid) equilibrium for the ternary systems {heptane+toluene+1-allyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide} and {heptane+toluene+1-methyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide} ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011 , 43, 1641-1645	2.9	23

37	Liquid-Liquid Equilibria for the Ternary Systems {Heptane + Toluene + N-Butylpyridinium Tetrafluoroborate or N-Hexylpyridinium Tetrafluoroborate} at T = 313.2 K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2862-2865	2.8	47
36	Ternary Liquid-Liquid Equilibria Measurement for Hexane and Benzene with the Ionic Liquid 1-Butyl-3-methylimidazolium Methylsulfate at T = (298.2, 313.2, and 328.2) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 258-261	2.8	61
35	A COSMO-RS based guide to analyze/quantify the polarity of ionic liquids and their mixtures with organic cosolvents. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1991-2000	3.6	57
34	A novel method to quantify the adulteration of extra virgin olive oil with low-grade olive oils by UV-vis. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 1679-84	5.7	51
33	(Liquid+liquid) equilibria in the binary systems (aliphatic, or aromatic hydrocarbons+1-ethyl-3-methylimidazolium ethylsulfate, or 1-butyl-3-methylimidazolium methylsulfate ionic liquids). <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 144-150	2.9	33
32	Separation of toluene and heptane by liquid-liquid extraction using z-methyl-N-butylpyridinium tetrafluoroborate isomers (z=2, 3, or 4) at T=313.2 K. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 1004-1008	2.9	51
31	Liquid-Liquid equilibria for {hexane + benzene + 1-ethyl-3-methylimidazolium ethylsulfate} at (298.2, 313.2 and 328.2) K. <i>Fluid Phase Equilibria</i> , 2009 , 282, 117-120	2.5	86
30	Estimation of toxicity of ionic liquids in Leukemia Rat Cell Line and Acetylcholinesterase enzyme by principal component analysis, neural networks and multiple lineal regressions. <i>Journal of Hazardous Materials</i> , 2009 , 164, 182-94	12.8	130
29	Self-organizing maps and learning vector quantization networks as tools to identify vegetable oils. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 2763-9	5.7	8
28	Development of an a Priori Ionic Liquid Design Tool. 2. Ionic Liquid Selection through the Prediction of COSMO-RS Molecular Descriptor by Inverse Neural Network. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2257-2265	3.9	53
27	Chaotic parameters and their role in quantifying noise in the output signals from UV, TGA and DSC apparatus. <i>Talanta</i> , 2009 , 79, 665-8	6.2	9
26	Determination of Toluene, n-Heptane, [emim][EtSO ₄], and [bmim][MeSO ₄] Ionic Liquids Concentrations in Quaternary Mixtures by UV-vis Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 4998-5003	3.9	7
25	Effect of Cationic and Anionic Chain Lengths on Volumetric, Transport, and Surface Properties of 1-Alkyl-3-methylimidazolium Alkylsulfate Ionic Liquids at (298.15 and 313.15) K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1297-1301	2.8	64
24	Optimising an artificial neural network for predicting the melting point of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5826-31	3.6	80
23	Development of an a Priori Ionic Liquid Design Tool. 1. Integration of a Novel COSMO-RS Molecular Descriptor on Neural Networks. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 4523-4532	3.9	68
22	Effect of Relative Humidity of Air on Density, Apparent Molar Volume, Viscosity, Surface Tension, and Water Content of 1-Ethyl-3-methylimidazolium Ethylsulfate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 923-928	2.8	73
21	Volumetric, Transport and Surface Properties of [bmim][MeSO ₄] and [emim][EtSO ₄] Ionic Liquids As a Function of Temperature. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1518-1522	2.8	100
20	Prediction of non-ideal behavior of polarity/polarizability scales of solvent mixtures by integration of a novel COSMO-RS molecular descriptor and neural networks. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5967-75	3.6	17

19	Estimation of ternary liquid-liquid equilibria for arene/alkane/ionic liquid mixtures using neural networks. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5114-20	3.6	37
18	Catalytic Hydrotreatment of Crude Waxes from Different Sources over a NiW/-Al ₂ O ₃ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6854-6861	3.9	2
17	Design and optimisation of a filter based on neural networks. Application to reduce noise in experimental measurement by TGA of thermal degradation of 1-ethyl-3-methylimidazolium ethylsulfate ionic liquid. <i>Sensors and Actuators B: Chemical</i> , 2008 , 133, 426-434	8.5	3
16	Modelling of carbon dioxide solubility in ionic liquids at sub and supercritical conditions by neural networks and mathematical regressions. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2008 , 93, 1493-1509	3.8	37
15	Determination of 1-Ethyl-3-methylimidazolium Ethylsulfate Ionic Liquid and Toluene Concentration in Aqueous Solutions by Artificial Neural Network/UV Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3787-3793	3.9	23
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13	Density and Molar Volume Predictions Using COSMO-RS for Ionic Liquids. An Approach to Solvent Design. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6041-6048	3.9	199
12	Refining Heavy Neutral Oil Paraffin by Catalytic Hydrotreatment over NiW/Al ₂ O ₃ Catalysts. <i>Energy & Fuels</i> , 2006 , 20, 245-249	4.1	4
11	Kraft Pulping of Eucalyptus globulus: Kinetics of Residual Delignification. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 1955-1959	3.9	10
10	Solubilities of Phenol and Pyrocatechol in Supercritical Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 918-921	2.8	55
9	Modelling solubility of solids in supercritical fluids using response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2000 , 75, 245-251	3.5	12
8	Lignin Behavior During the Autocatalyzed Methanol Pulping of Eucalyptus globulus Changes in Molecular Weight and Functionality. <i>Holzforschung</i> , 2000 , 54, 373-380	2	27
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6	Kinetics of Eucalyptus globulus Delignification in a Methanol/Water Medium. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3324-3332	3.9	24
5	Kinetic Modeling of Kraft Delignification of Eucalyptus globulus. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4114-4125	3.9	39
4	Kinetics of anthraquinone reduction with sodium sulfide in alkaline medium. <i>Industrial & Engineering Chemistry Research</i> , 1991 , 30, 1791-1795	3.9	2
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2	Fractionation of Pinus radiata by ethanol-based organosolv process. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	0

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