Francisco Rodriguez

List of Publications by Citations

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	Density and Molar Volume Predictions Using COSMO-RS for Ionic Liquids. An Approach to Solvent Design. *Industrial & Engineering Chemistry Research*, **2007**, 46, 6041-6048	3.9	199
143	Understanding the Physical Absorption of CO2 in Ionic Liquids Using the COSMO-RS Method. *Industrial & Engineering Chemistry Research*, **2011**, 50, 3452-3463	3.9	148
142	Thermal stability of choline chloride deep eutectic solvents by TGA/FTIR-ATR analysis. *Journal of Molecular Liquids*, **2018**, 260, 37-43	6	143
141	Thermophysical Properties of 1-Ethyl-3-methylimidazolium Ethylsulfate and 1-Butyl-3-methylimidazolium Methylsulfate Ionic Liquids. *Journal of Chemical & Engineering Data*, **2007**, 52, 1979-1983	2.8	143
140	Liquid–liquid Extraction of Toluene from Heptane Using [emim][DCA], [bmim][DCA], and [emim][TCM] Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2714-2720	3.9	138
139	Estimation of toxicity of ionic liquids in Leukemia Rat Cell Line and Acetylcholinesterase enzyme by principal component analysis, neural networks and multiple lineal regressions. *Journal of Hazardous Materials*, **2009**, 164, 182-94	12.8	130
138	Task-specific ionic liquids for efficient ammonia absorption. *Separation and Purification Technology*, **2011**, 82, 43-52	8.3	114
137	Thermal Properties of Cyano-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2013**, 58, 2187-2193	2.8	111
136	Volumetric, Transport and Surface Properties of [bmim][MeSO4] and [emim][EtSO4] Ionic Liquids As a Function of Temperature. *Journal of Chemical & Engineering Data*, **2008**, 53, 1518-1522	2.8	100
135	Liquid–liquid equilibria for {hexane + benzene + 1-ethyl-3-methylimidazolium ethylsulfate} at (298.2, 313.2 and 328.2) K. *Fluid Phase Equilibria*, **2009**, 282, 117-120	2.5	86
134	CO2/N2 Selectivity Prediction in Supported Ionic Liquid Membranes (SILMs) by COSMO-RS. *Industrial & Engineering Chemistry Research*, **2011**, 50, 5739-5748	3.9	82
133	Optimising an artificial neural network for predicting the melting point of ionic liquids. *Physical Chemistry Chemical Physics*, **2008**, 10, 5826-31	3.6	80
132	Comparison of lignin and cellulose solubilities in ionic liquids by COSMO-RS analysis and experimental validation. *Industrial Crops and Products*, **2012**, 37, 155-163	5.9	74
131	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. *Journal of Chemical & Engineering Data*, **2008**, 53, 923-928	2.8	73
130	FTIR analysis of lignin regenerated from Pinus radiata and Eucalyptus globulus woods dissolved in imidazolium-based ionic liquids. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 472-480	3.5	68
129	Development of an a Priori Ionic Liquid Design Tool. 1. Integration of a Novel COSMO-RS Molecular Descriptor on Neural Networks. *Industrial & Engineering Chemistry Research*, **2008**, 47, 4523-4532	3.9	68
128	Selective extraction of toluene from n-heptane using [emim][SCN] and [bmim][SCN] ionic liquids as solvents. *Journal of Chemical Thermodynamics*, **2014**, 79, 266-271	2.9	64

127	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. *Journal of Chemical & Engineering Data*, **2009**, 54, 1297-1301	2.8	64
126	Physical Properties of N-Butylpyridinium Tetrafluoroborate and N-Butylpyridinium Bis(trifluoromethylsulfonyl)imide Binary Ionic Liquid Mixtures. *Journal of Chemical & Engineering Data*, **2012**, 57, 1318-1325	2.8	63
125	Screening ionic liquids as suitable ammonia absorbents on the basis of thermodynamic and kinetic analysis. *Separation and Purification Technology*, **2012**, 95, 188-195	8.3	63
124	Effect of fiber loading on the properties of treated cellulose fiber-reinforced phenolic composites. *Composites Part B: Engineering*, **2015**, 68, 185-192	10	62
123	Selection of ionic liquids for enhancing the gas solubility of volatile organic compounds. *Journal of Physical Chemistry B*, **2013**, 117, 296-306	3.4	61
122	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. *Journal of Chemical & Engineering Data*, **2010**, 55, 258-261	2.8	61
121	Anion effects on kinetics and thermodynamics of CO2 absorption in ionic liquids. *Journal of Physical Chemistry B*, **2013**, 117, 3398-406	3.4	58
120	COSMO-RS Studies: Structure–Property Relationships for CO2 Capture by Reversible Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2012**, 51, 16066-16073	3.9	57
119	A COSMO-RS based guide to analyze/quantify the polarity of ionic liquids and their mixtures with organic cosolvents. *Physical Chemistry Chemical Physics*, **2010**, 12, 1991-2000	3.6	57
118	Efficient biodegradation of common ionic liquids by Sphingomonas paucimobilis bacterium. *Green Chemistry*, **2011**, 13, 709	10	56
117	Excess enthalpy of monoethanolamine + ionic liquid mixtures: how good are COSMO-RS predictions?. *Journal of Physical Chemistry B*, **2014**, 118, 11512-22	3.4	55
116	Solubilities of Phenol and Pyrocatechol in Supercritical Carbon Dioxide. *Journal of Chemical & Engineering Data*, **2001**, 46, 918-921	2.8	55
115	Liquid–liquid extraction of toluene from n-heptane using binary mixtures of N-butylpyridinium tetrafluoroborate and N-butylpyridinium bis(trifluoromethylsulfonyl)imide ionic liquids. *Chemical Engineering Journal*, **2012**, 180, 210-215	14.7	53
114	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. *Industrial & Engineering Chemistry Research*, **2009**, 48, 2257-2265	3.9	53
113	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. *Separation and Purification Technology*, **2013**, 120, 392-401	8.3	52
112	Liquid–liquid extraction of toluene from n-heptane by {[emim][TCM]+[emim][DCA]} binary ionic liquid mixtures. *Fluid Phase Equilibria*, **2014**, 364, 48-54	2.5	51
111	A novel method to quantify the adulteration of extra virgin olive oil with low-grade olive oils by UV-vis. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 1679-84	5.7	51
110	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. *Journal of Chemical Thermodynamics*, **2010**, 42, 1004-1008	2.9	51

109	Choline Chloride-Based Deep Eutectic Solvents in the Dearomatization of Gasolines. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 1039-1047	8.3	50
108	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. *Fluid Phase Equilibria*, **2011**, 301, 62-66	2.5	49
107	Physical Properties of Binary and Ternary Mixtures of 2-Propanol, Water, and 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid. *Journal of Chemical & Engineering Data*, **2012**, 57, 1165-1173	2.8	48
106	Diffusion Coefficients of CO2in Ionic Liquids Estimated by Gravimetry. *Industrial & Engineering Chemistry Research*, **2014**, 53, 13782-13789	3.9	47
105	Liquid–liquid Equilibria for the Ternary Systems {Heptane + Toluene + N-Butylpyridinium Tetrafluoroborate or N-Hexylpyridinium Tetrafluoroborate} at T = 313.2 K. *Journal of Chemical & Engineering Data*, **2010**, 55, 2862-2865	2.8	47
104	Mechanical, thermal and morphological characterization of cellulose fiber-reinforced phenolic foams. *Composites Part B: Engineering*, **2015**, 75, 367-372	10	46
103	COSMO-based/Aspen Plus process simulation of the aromatic extraction from pyrolysis gasoline using the {[4empy][NTf2] + [emim][DCA]} ionic liquid mixture. *Separation and Purification Technology*, **2018**, 190, 211-227	8.3	45
102	Dicyanamide-based ionic liquids in the liquid–liquid extraction of aromatics from alkanes: Experimental evaluation and computational predictions. *Chemical Engineering Research and Design*, **2016**, 109, 561-572	5.5	44
101	Relation between differential solubility of cellulose and lignin in ionic liquids and activity coefficients. *RSC Advances*, **2013**, 3, 3453	3.7	44
100	Effects of formulation variables on density, compressive mechanical properties and morphology of wood flour-reinforced phenolic foams. *Composites Part B: Engineering*, **2014**, 56, 546-552	10	43
99	Liquid–liquid Extraction of BTEX from Reformer Gasoline Using Binary Mixtures of [4empy][Tf2N] and [emim][DCA] Ionic Liquids. *Energy & Fuels*, **2014**, 28, 6666-6676	4.1	43
98	Vapor–liquid equilibria of {n-heptane + toluene + [emim][DCA]} system by headspace gas chromatography. *Fluid Phase Equilibria*, **2015**, 387, 209-216	2.5	42
97	Separation of aromatics from n-alkanes using tricyanomethanide-based ionic liquids: Liquid-liquid extraction, vapor-liquid separation, and thermophysical characterization. *Journal of Molecular Liquids*, **2016**, 223, 880-889	6	41
96	Kinetic Modeling of Kraft Delignification of Eucalyptus globulus. *Industrial & Engineering Chemistry Research*, **1997**, 36, 4114-4125	3.9	39
95	Thermal stability, specific heats, and surface tensions of ([emim][DCA]+[4empy][Tf2N]) ionic liquid mixtures. *Journal of Chemical Thermodynamics*, **2014**, 76, 152-160	2.9	37
94	Estimation of ternary liquid-liquid equilibria for arene/alkane/ionic liquid mixtures using neural networks. *Physical Chemistry Chemical Physics*, **2008**, 10, 5114-20	3.6	37
93	Modelling of carbon dioxide solubility in ionic liquids at sub and supercritical conditions by neural networks and mathematical regressions. *Chemometrics and Intelligent Laboratory Systems*, **2008**, 93, 149-159	3.8	37
92	Solubility and Diffusivity of CO2 in [hxmim][NTf2], [omim][NTf2], and [dcmim][NTf2] at T = (298.15, 308.15, and 323.15) K and Pressures up to 20 bar. *Journal of Chemical & Engineering Data*, **2014** , 59, 212-217	2.8	36

91	Lignin particle- and wood flour-reinforced phenolic foams: Friability, thermal stability and effect of hygrothermal aging on mechanical properties and morphology. *Composites Part B: Engineering*, **2015**, 80, 154-161	10	35
90	Design of the recovery section of the extracted aromatics in the separation of BTEX from naphtha feed to ethylene crackers using [4empy][Tf 2 N] and [emim][DCA] mixed ionic liquids as solvent. *Separation and Purification Technology*, **2017**, 180, 149-156	8.3	34
89	Organosolv Delignification of Eucalyptus globulus: Kinetic Study of Autocatalyzed Ethanol Pulping. *Industrial & Engineering Chemistry Research*, **2000**, 39, 34-39	3.9	34
88	Physical Characterization of an Aromatic Extraction Solvent Formed by [bpy][BF4] and [4bmpy][Tf2N] Mixed Ionic Liquids. *Journal of Chemical & Engineering Data*, **2013**, 58, 1496-1504	2.8	33
87	(Liquid+liquid) equilibria in the binary systems (aliphatic, or aromatic hydrocarbons+1-ethyl-3-methylimidazolium ethylsulfate, or 1-butyl-3-methylimidazolium methylsulfate ionic liquids). *Journal of Chemical Thermodynamics*, **2010**, 42, 144-150	2.9	33
86	Selective recovery of aliphatics from aromatics in the presence of the {[4empy][Tf 2 N] + [emim][DCA]} ionic liquid mixture. *Journal of Chemical Thermodynamics*, **2016**, 96, 134-142	2.9	31
85	Separation of toluene from n-heptane by liquid□quid extraction using binary mixtures of [bpy][BF4] and [4bmpy][Tf2N] ionic liquids as solvent. *Journal of Chemical Thermodynamics*, **2012**, 53, 119-124	2.9	31
84	Separation of BTEX from a naphtha feed to ethylene crackers using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. *Separation and Purification Technology*, **2015**, 144, 54-62	8.3	30
83	Evaluation of hardwood and softwood fractionation using autohydrolysis and ionic liquid microwave pretreatment. *Biomass and Bioenergy*, **2018**, 117, 190-197	5.3	30
82	Alkylsulfate-based ionic liquids in the liquid□quid extraction of aromatic hydrocarbons. *Journal of Chemical Thermodynamics*, **2012**, 45, 68-74	2.9	30
81	Acidic depolymerization vs ionic liquid solubilization in lignin extraction from eucalyptus wood using the protic ionic liquid 1-methylimidazolium chloride. *International Journal of Biological Macromolecules*, **2020**, 157, 461-469	7.9	29
80	Alkali treatment of viscose cellulosic fibers from eucalyptus wood: Structural, morphological, and thermal analysis. *Journal of Applied Polymer Science*, **2013**, 130, 2198-2204	2.9	29
79	Dearomatization of pyrolysis gasolines from mild and severe cracking by liquid□quid extraction using a binary mixture of [4empy][Tf2N] and [emim][DCA] ionic liquids. *Fuel Processing Technology*, **2015**, 137, 269-282	7.2	28
78	Mixing and decomposition behavior of {[4bmpy][Tf2N]+[emim][EtSO4]} and {[4bmpy][Tf2N]+[emim][TFES]} ionic liquid mixtures. *Journal of Chemical Thermodynamics*, **2015**, 82, 58-75	2.9	28
77	Non-ideal behavior of ionic liquid mixtures to enhance CO2 capture. *Fluid Phase Equilibria*, **2017**, 450, 175-183	2.5	28
76	Combining autohydrolysis and ionic liquid microwave treatment to enhance enzymatic hydrolysis of Eucalyptus globulus wood. *Bioresource Technology*, **2018**, 251, 197-203	11	28
75	Enhanced separation of benzene and cyclohexane by homogeneous extractive distillation using ionic liquids as entrainers. *Separation and Purification Technology*, **2020**, 240, 116583	8.3	27
74	Experimental screening towards developing ionic liquid-based extractive distillation in the dearomatization of refinery streams. *Separation and Purification Technology*, **2018**, 201, 268-275	8.3	27

73	Thermal stability and specific heats of {[emim][DCA]+[emim][TCM]} mixed ionic liquids. *Thermochimica Acta*, **2014**, 588, 22-27	2.9	27
72	Lignin Behavior During the Autocatalyzed Methanol Pulping of Eucalyptus globulus Changes in Molecular Weight and Functionality. *Holzforschung*, **2000**, 54, 373-380	2	27
71	Liquid–liquid Extraction of Toluene from n-Alkanes using {[4empy][Tf2N] + [emim][DCA]} Ionic Liquid Mixtures. *Journal of Chemical & Engineering Data*, **2014**, 59, 1692-1699	2.8	26
70	Recovery of tyrosol from aqueous streams using hydrophobic ionic liquids: a first step towards developing sustainable processes for olive mill wastewater (OMW) management. *RSC Advances*, **2016**, 6, 18751-18762	3.7	25
69	Extraction of aromatic hydrocarbons from pyrolysis gasoline using tetrathiocyanatocobaltate-based ionic liquids: Experimental study and simulation. *Fuel Processing Technology*, **2017**, 159, 96-110	7.2	24
68	Kinetics of Eucalyptus globulus Delignification in a Methanol–Water Medium. *Industrial & Engineering Chemistry Research*, **1999**, 38, 3324-3332	3.9	24
67	Imidazolium and pyridinium-based ionic liquids for the cyclohexane/cyclohexene separation by liquid-liquid extraction. *Journal of Chemical Thermodynamics*, **2019**, 131, 340-346	2.9	24
66	Toluene/n-Heptane Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids: Experimental and CPA EoS Modeling. *Industrial & Engineering Chemistry Research*, **2018**, 57, 14242-14253	3.9	24
65	(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. *Journal of Chemical Thermodynamics*, **2011**, 43, 1641-1645	2.9	23
64	Determination of 1-Ethyl-3-methylimidazolium Ethylsulfate Ionic Liquid and Toluene Concentration in Aqueous Solutions by Artificial Neural Network/UV Spectroscopy. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3787-3793	3.9	23
63	Cyclohexane/cyclohexene separation by extractive distillation with cyano-based ionic liquids. *Journal of Molecular Liquids*, **2019**, 289, 111120	6	22
62	Effect of autohydrolysis on Pinus radiata wood for hemicellulose extraction. *Carbohydrate Polymers*, **2018**, 194, 285-293	10.3	21
61	Quantification of adulterant agents in extra virgin olive oil by models based on its thermophysical properties. *Journal of Food Engineering*, **2011**, 103, 211-218	6	21
60	Use of selective ionic liquids and ionic liquid/salt mixtures as entrainer in a (vapor + liquid) system to separate n-heptane from toluene. *Journal of Chemical Thermodynamics*, **2015**, 91, 156-164	2.9	20
59	Extraction of benzene, ethylbenzene, and xylenes from n-heptane using binary mixtures of [4empy][Tf2N] and [emim][DCA] ionic liquids. *Fluid Phase Equilibria*, **2014**, 380, 1-10	2.5	20
58	Autohydrolysis and microwave ionic liquid pretreatment of Pinus radiata: Imaging visualization and analysis to understand enzymatic digestibility. *Industrial Crops and Products*, **2019**, 134, 328-337	5.9	19
57	Extraction and recovery process to selectively separate aromatics from naphtha feed to ethylene crackers using 1-ethyl-3-methylimidazolium thiocyanate ionic liquid. *Chemical Engineering Research and Design*, **2017**, 120, 102-112	5.5	18
56	Liquid–liquid extraction of toluene from heptane by {[4bmpy][Tf2N]+[emim][CHF2CF2SO3]} ionic liquid mixed solvents. *Fluid Phase Equilibria*, **2013**, 337, 47-52	2.5	18

55	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. *Energy & Fuels*, **2017**, 31, 1035-1043	4.1	17
54	Prediction of non-ideal behavior of polarity/polarizability scales of solvent mixtures by integration of a novel COSMO-RS molecular descriptor and neural networks. *Physical Chemistry Chemical Physics*, **2008**, 10, 5967-75	3.6	17
53	New Experimental Data and Modeling of Glymes: Toward the Development of a Predictive Model for Polyethers. *Industrial & Engineering Chemistry Research*, **2017**, 56, 7830-7844	3.9	16
52	Dearomatization of pyrolysis gasoline by extractive distillation with 1-ethyl-3-methylimidazolium tricyanomethanide. *Fuel Processing Technology*, **2019**, 195, 106156	7.2	16
51	A comparative study of pure ionic liquids and their mixtures as potential mass agents in the separation of hydrocarbons. *Journal of Molecular Liquids*, **2016**, 222, 118-124	6	15
50	Ecotoxicity evaluation towards Vibrio fischeri of imidazolium- and pyridinium-based ionic liquids for their use in separation processes. *SN Applied Sciences*, **2019**, 1, 1	1.8	15
49	Protic, Aprotic, and Choline-Derived Ionic Liquids: Toward Enhancing the Accessibility of Hardwood and Softwood. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1362-1370	8.3	15
48	Recovery and Reuse of 1-Allyl-3-methylimidazolium Chloride in the Fractionation of Pinus radiata Wood. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2384-2392	8.3	14
47	Vapor-liquid equilibria for n-heptane + (benzene, toluene, p-xylene, or ethylbenzene) + {[4empy][Tf2N] (0.3) + [emim][DCA] (0.7)} binary ionic liquid mixture. *Fluid Phase Equilibria*, **2016**, 417, 41-49	2.5	14
46	Optimization of the silane treatment of cellulosic fibers from eucalyptus wood using response surface methodology. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	14
45	Dissolution of Pinus radiata and Eucalyptus Globulus Woods in 1-Allyl-3-methylimidazolium Chloride for Cellulose or Lignin Regeneration. *Industrial & Engineering Chemistry Research*, **2013**, 52, 3628-3636	3.9	14
44	Chitosan-reinforced cellulosic bionogels: Viscoelastic and antibacterial properties. *Carbohydrate Polymers*, **2020**, 229, 115569	10.3	14
43	Separation of benzene from methylcycloalkanes by extractive distillation with cyano-based ionic liquids: Experimental and CPA EoS modelling. *Separation and Purification Technology*, **2020**, 234, 116128	8.3	13
42	Modelling solubility of solids in supercritical fluids using response surface methodology. *Journal of Chemical Technology and Biotechnology*, **2000**, 75, 245-251	3.5	12
41	Tuning the rheological properties of cellulosic ionogels reinforced with chitosan: The role of the deacetylation degree. *Carbohydrate Polymers*, **2019**, 207, 775-781	10.3	12
40	Thermal stability and specific heats of {[bpy][BF4] + [bpy][Tf2N]} and {[bpy][BF4] + [4bmpy][Tf2N]} mixed ionic liquid solvents. *Journal of Thermal Analysis and Calorimetry*, **2015**, 119, 1235-1243	4.1	11
39	Mechanical and interfacial properties of phenolic composites reinforced with treated cellulose fibers. *Polymer Engineering and Science*, **2014**, 54, 2228-2238	2.3	11
38	Novel Process to Reduce Benzene, Thiophene, and Pyrrole in Gasoline Based on [4bmpy][TCM] Ionic Liquid. *Energy & Fuels*, **2018**, 32, 5650-5658	4.1	10

37	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. *Journal of Chemical & Engineering Data*, **2016**, 61, 2440-2449	2.8	10
36	Kraft Pulping of Eucalyptus globulus: Kinetics of Residual Delignification. *Industrial & Engineering Chemistry Research*, **2002**, 41, 1955-1959	3.9	10
35	Dearomatization of pyrolysis gasoline with an ionic liquid mixture: Experimental study and process simulation. *AICHE Journal*, **2017**, 63, 4054-4065	3.6	9
34	Vapor–liquid Equilibria of n-Heptane + Toluene +1-Ethyl-4-methylpyridinium Bis(trifluoromethylsulfonyl)imide Ionic Liquid. *Journal of Chemical & Engineering Data*, **2016**, 61, 458-465	2.8	9
33	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. *Journal of Chemical & Engineering Data*, **2012**, 57, 2472-2478	2.8	9
32	Chaotic parameters and their role in quantifying noise in the output signals from UV, TGA and DSC apparatus. *Talanta*, **2009**, 79, 665-8	6.2	9
31	On the volatility of aromatic hydrocarbons in ionic liquids: Vapor-liquid equilibrium measurements and theoretical analysis. *Journal of Molecular Liquids*, **2018**, 250, 9-18	6	9
30	Thermal and kinetics of the degradation of chitosan with different deacetylation degrees under oxidizing atmosphere. *Thermochimica Acta*, **2018**, 670, 18-26	2.9	9
29	Viscoelastic properties of physical cellulosic bionogels of cholinium lysinate. *International Journal of Biological Macromolecules*, **2019**, 133, 262-269	7.9	8
28	Self-organizing maps and learning vector quantization networks as tools to identify vegetable oils. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 2763-9	5.7	8
27	Toward Modeling the Aromatic/Aliphatic Separation by Extractive Distillation with Tricyanomethanide-Based Ionic Liquids Using CPA EoS. *Industrial & Engineering Chemistry Research*, **2019**, 58, 19681-19692	3.9	7
26	Application of microscopy techniques for a better understanding of biomass pretreatment. *Industrial Crops and Products*, **2019**, 138, 111466	5.9	7
25	Two-step fractionation of Pinus radiata by autohydrolysis and organosolv delignification for enzymatic hydrolysis. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 3951-3959	3.5	7
24	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. *Analytica Chimica Acta*, **2011**, 688, 140-5	6.6	7
23	Determination of Toluene, n-Heptane, [emim][EtSO4], and [bmim][MeSO4] Ionic Liquids Concentrations in Quaternary Mixtures by UV–vis Spectroscopy. *Industrial & Engineering Chemistry Research*, **2009**, 48, 4998-5003	3.9	7
22	A biorefinery strategy for the manufacture and characterization of oligosaccharides and antioxidants from poplar hemicelluloses. *Food and Bioproducts Processing*, **2020**, 123, 398-408	4.9	7
21	Technoeconomic Assessment of a Biomass Pretreatment + Ionic Liquid Recovery Process with Aprotic and Choline Derived Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8467-8476	8.3	7
20	Impact of water on the [C4C1im][Ac] ability for the CO2/CH4 separation. *Journal of CO2 Utilization*, **2019**, 31, 115-123	7.6	6

19	Insights into Ionic Liquid/Aromatic Systems from NMR Spectroscopy: How Water Affects Solubility and Intermolecular Interactions. *ChemPlusChem*, **2019**, 84, 872-881	2.8	5
18	Cellulose ionogels, a perspective of the last decade: A review. *Carbohydrate Polymers*, **2021**, 274, 118663	10.3	5
17	High pressure density of tricyanomethanide-based ionic liquids: Experimental and PC-SAFT modelling. *Fluid Phase Equilibria*, **2020**, 520, 112652	2.5	4
16	Refining Heavy Neutral Oil Paraffin by Catalytic Hydrotreatment over NiW/Al2O3 Catalysts. *Energy & Fuels*, **2006**, 20, 245-249	4.1	4
15	Extractive Distillation with Ionic Liquids To Separate Benzene, Toluene, and Xylene from Pyrolysis Gasoline: Process Design and Techno-Economic Comparison with the Morphylane Process. *Industrial & Engineering Chemistry Research*,	3.9	4
14	. *Industrial & Engineering Chemistry Research*, **2020**, 59, 15058-15068	3.9	4
13	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. *Sensors and Actuators B: Chemical*, **2008**, 133, 426-434	8.5	3
12	Kinetics of anthraquinone reduction with sodium dithionite in alkaline medium. *AICHE Journal*, **1988**, 34, 865-869	3.6	3
11	Thermal degradation kinetics of a lignin particle-reinforced phenolic foam. *Journal of Cellular Plastics*, **2021**, 57, 176-192	1.5	3
10	Aliphatic and aromatic hydrocarbon diffusion coefficients at infinite dilution in [emim][DCA] and [4empy][Tf2N] ionic liquids. *Journal of Molecular Liquids*, **2019**, 288, 111082	6	2
9	Catalytic Hydrotreatment of Crude Waxes from Different Sources over a NiW/-Al2O3 Catalyst. *Industrial & Engineering Chemistry Research*, **2008**, 47, 6854-6861	3.9	2
8	Kinetics of anthraquinone reduction with sodium sulfide in alkaline medium. *Industrial & Engineering Chemistry Research*, **1991**, 30, 1791-1795	3.9	2
7	Experimental screening of ionic liquids as mass agents in the n-hexane/1-hexene extractive distillation. *Fluid Phase Equilibria*, **2021**, 549, 113205	2.5	2
6	Developing a new correlation for the aliphatic and aromatic hydrocarbon diffusion coefficients at infinite dilution in ionic liquids. *Journal of Molecular Liquids*, **2019**, 296, 111857	6	1
5	High-Pressure Density of Bis(1-alkyl-3-methylimidazolium) Tetraisothiocyanatocobaltate Ionic Liquids: Experimental and PC-SAFT with Volume-Shift Modeling. *Journal of Chemical & Engineering Data*, **2019**, 64, 4827-4833	2.8	1
4	Organosolv and ionosolv processes for autohydrolyzed poplar fractionation: Lignin recovery and characterization.. *International Journal of Biological Macromolecules*, **2021**, 197, 131-131	7.9	1
3	Fractionation of Pinus radiata by ethanol-based organosolv process. *Biomass Conversion and Biorefinery*,1	2.3	0
2	Tetrathiocyanatocobaltate and bis(trifluoromethylsulfonyl)imide-based ionic liquids as mass agents in the separation of cyclohexane and cyclohexene mixtures by homogeneous extractive distillation. *Journal of Chemical Thermodynamics*, **2021**, 157, 106403	2.9	0

1 Modelling of Hydrocarbon Solubility in Isomeric Ionic Liquids Using Mathematical Regressions. *Separation Science and Technology*, **2012**, 47, 392-398 2.5