

CITATION REPORT

List of articles citing

Thermophysical Properties of Imidazolium-Based Ionic Liquids

DOI: 10.1021/je034261a

Journal of Chemical & Engineering Data, 2004, 49, 954-9

Source: <https://exaly.com/paper-pdf/37572711/citation-report.pdf>

Version: 2024-04-23

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1321	Potential of Mean Force Calculations for an SN2 Fluorination Reaction in Five Different Imidazolium Ionic Liquid Solvents Using Quantum Mechanics/Molecular Mechanics Molecular Dynamics Simulations.		
1320	Molecular Dynamics Simulation of Bismuth Telluride Exfoliation Mechanisms in Different Ionic Liquid Solvents.		
1319	Perturbation of the Experimental Phase Diagram of a Diblock Copolymer by Blending with an Ionic Liquid.		
1318	Ionic Liquids in Wonderland: From Electrostatics to Coordination Chemistry.		
1317	Structural Anomalies in Ionic Liquids near the Glass Transition Revealed by Pulse EPR.		
1316	Group Contribution Based Estimation Method for Properties of Ionic Liquids.		
1315	Effects of the Water Content on the Transport Properties of Ionic Liquids.		
1314	Effect of Alkyl Chain Branching on Physicochemical Properties of Imidazolium-Based Ionic Liquids.		
1313	Thermophysical properties of 1-butyl-3-methylimidazolium trifluoromethanesulfonate in a wide range of temperatures and pressures.		
1312	A detailed thermodynamic analysis of [C4mim][BF4] + water as a case study to model ionic liquid aqueous solutions. 2004 , 6, 369-381		311
1311	Regular Solution Theory and CO2 Gas Solubility in Room-Temperature Ionic Liquids. 2004 , 43, 6855-6860		251
1310	High-Pressure Phase Behavior of Carbon Dioxide with Imidazolium-Based Ionic Liquids. 2004 , 108, 20355-20365		704
1309	Liquid phase behaviour of 1-hexyloxymethyl-3-methyl-imidazolium-based ionic liquids with hydrocarbons: The influence of anion. 2005 , 37, 577-585		73
1308	Phase transition and decomposition temperatures, heat capacities and viscosities of pyridinium ionic liquids. 2005 , 37, 559-568		585
1307	Recent developments in thermodynamics and thermophysics of non-aqueous mixtures containing ionic liquids. A review. 2005 , 37, 525-535		345
1306	Thermophysical and thermodynamic properties of ionic liquids over an extended pressure range: [bmim][NTf2] and [hmim][NTf2]. 2005 , 37, 888-899		270
1305	TGA decomposition kinetics of 1-butyl-2,3-dimethylimidazolium tetrafluoroborate and the thermal effects of contaminants. 2005 , 37, 900-905		74

1304	Liquid phase behavior of imidazolium-based ionic liquids with alcohols: effect of hydrogen bonding and non-polar interactions. 2005 , 228-229, 303-309		116
1303	How transparent are the imidazolium ionic liquids? A case study with 1-methyl-3-butylimidazolium hexafluorophosphate, [bmim][PF ₆]. 2005 , 402, 375-379		208
1302	On the critical temperature, normal boiling point, and vapor pressure of ionic liquids. 2005 , 109, 6040-3		439
1301	Microwave-assisted synthesis of cobalt oxalate nanorods and their thermal conversion to Co ₃ O ₄ rods. 2005 , 40, 1929-1935		77
1300	Kinetik und Reaktionstechnik der Synthese ionischer Flüssigkeiten. 2005 , 77, 1430-1439		35
1299	Solubility measurement and prediction of carbon dioxide in ionic liquids. 2005 , 228-229, 439-445		238
1298	Deviations from ideality in mixtures of two ionic liquids containing a common ion. 2005 , 109, 3519-25		236
1297	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1777-1782	2.8	266
1296	Solute partitioning between the ionic liquid 1-n-butyl-3-methylimidazolium tetrafluoroborate and supercritical CO ₂ from capillary-column chromatography. 2005 , 109, 15165-71		25
1295	Carbocation-forming reactions in ionic liquids. 2005 , 127, 18114-20		54
1294	Volumetric and Speed of Sound of Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate with Acetonitrile and Methanol at T = (298.15 to 318.15) K. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1694-1699	2.8	157
1293	Ionic Liquids: The Neglected Issues. 2005 , 58, 155		243
1292	Thermophysical and Thermodynamic Properties of 1-Butyl-3-methylimidazolium Tetrafluoroborate and 1-Butyl-3-methylimidazolium Hexafluorophosphate over an Extended Pressure Range. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 997-1008	2.8	187
1291	A green and effective method to synthesize ionic liquids: supercritical CO ₂ route. 2005 , 7, 701		57
1290	Novel Brønsted-Acidic Ionic Liquids for Esterifications. 2005 , 44, 4147-4150		163
1289	Anion effects on gas solubility in ionic liquids. 2005 , 109, 6366-74		835
1288	Ionic Liquids-Properties and Preparation. 2005 , 15-40		1
1287	Enthalpy of Solution of 1-Octyl-3-methylimidazolium Tetrafluoroborate in Water and in Aqueous Sodium Fluoride. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1484-1491	2.8	66

1286	Synthesis of CoPt nanorods in ionic liquids. 2005 , 127, 5316-7		301
1285	Vapor-liquid-liquid equilibria of pentafluoroethane and ionic liquid [bmim][PF6] mixtures studied with the volumetric method. 2006 , 110, 14436-43		72
1284	Liquid phase behavior of ionic liquids with alcohols: experimental studies and modeling. 2006 , 110, 9354-61		127
1283	Molecular dynamics simulations of the aqueous interface with the [BMI][PF6] ionic liquid: Comparison of different solvent models. 2006 , 8, 4166-74		61
1282	Neoteric optical media for refractive index determination of gems and minerals. 2006 , 30, 317		49
1281	Thermal degradation of cyano containing ionic liquids. 2006 , 8, 691		200
1280	Ionic liquids in vacuo: analysis of liquid surfaces using ultra-high-vacuum techniques. 2006 , 22, 9386-92		215
1279	Thermodynamic Properties of Imidazolium-Based Ionic Liquids: Densities, Heat Capacities, and Enthalpies of Fusion of [bmim][PF6] and [bmim][NTf2]. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1856-1859	2.8	240
1278	INNOVATIVE APPLICATIONS OF IONIC LIQUIDS AS GREEN ENGINEERING LIQUIDS. 2006 , 193, 1660-1677		289
1277	Determination of Thermal Diffusivities, Thermal Conductivities, and Sound Speeds of Room-Temperature Ionic Liquids by the Transient Grating Technique. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1250-1255	2.8	98
1276	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Methyl-3-octylimidazolium Hexafluorophosphate and 1-Methyl-3-octylimidazolium Tetrafluoroborate. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1161-1167	2.8	210
1275	New disordering mode for TFSI- anions: the nonequilibrium, plastic crystalline structure of Et4NTFSI. 2006 , 45, 1412-4		72
1274	Raman spectroscopic study on solvation of diphenylcyclopropanone and phenol blue in room temperature ionic liquids. 2006 , 110, 6164-72		48
1273	Predicting physical properties of ionic liquids. 2006 , 8, 642-9		330
1272	Vapor-Liquid-Liquid Equilibria of Hydrofluorocarbons + 1-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1931-1939	2.8	79
1271	Density, Speed of Sound, and Derived Thermodynamic Properties of Ionic Liquids over an Extended Pressure Range. 4. [C3mim][NTf2] and [C5mim][NTf2]. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 2009-2015	2.8	124
1270	Densities and Derived Thermodynamic Properties of Ionic Liquids. 3. Phosphonium-Based Ionic Liquids over an Extended Pressure Range. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 237-242	2.8	168
1269	Ternary Phase Behavior of Ionic Liquid (IL)-Organic-CO2 Systems. 2006 , 45, 5574-5585		61

1268	Parametrization of 1-butyl-3-methylimidazolium hexafluorophosphate/nitrate ionic liquid for the GROMOS force field. 2006 , 110, 14444-51	125
1267	Melting point depression of ionic liquids confined in nanospaces. 2006 , 1828-30	88
1266	Measurement of SO ₂ solubility in ionic liquids. 2006 , 110, 15059-62	292
1265	Why are ionic liquids liquid? A simple explanation based on lattice and solvation energies. 2006 , 128, 13427-34	483
1264	Molecular force field for ionic liquids III: imidazolium, pyridinium, and phosphonium cations; chloride, bromide, and dicyanamide anions. 2006 , 110, 19586-92	436
1263	Ionogels, New Materials Arising from the Confinement of Ionic Liquids within Silica-Derived Networks. 2006 , 18, 3931-3936	361
1262	Effect of Acetonitrile on the Solubility of Carbon Dioxide in 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide. 2006 , 45, 8180-8188	57
1261	Solubilities in Ionic Liquids and Molten Salts from a Simple Perturbed-Hard-Sphere Theory. 2006 , 45, 5518-5523	25
1260	Alkyl vs. alkoxy chains on ionic liquid cations. 2006 , 3708-10	55
1259	High temperature corrosion properties of ionic liquids. 2006 , 48, 2349-2362	97
1258	Density and viscosity of several pure and water-saturated ionic liquids. 2006 , 8, 172-180	676
1257	Ionic liquid metallurgy: novel electrolytes for metals extraction and refining technology. 2006 , 23, 177-186	6
1256	Mobility of spin probes in ionic liquids. 2006 , 19, 318-325	64
1255	Description of the pVT behavior of ionic liquids and the solubility of gases in ionic liquids using an equation of state. 2006 , 250, 150-157	55
1254	X-ray photoelectron spectroscopy and low energy ion scattering studies on 1-butyl-3-methyl-imidazolium bis(trifluoromethane) sulfonimide. 2006 , 151, 4-8	147
1253	Volumetric and compressibility behaviour of ionic liquid, 1-n-butyl-3-methylimidazolium hexafluorophosphate and tetrabutylammonium hexafluorophosphate in organic solvents at T=298.15 K. 2006 , 38, 624-633	70
1252	Application of Prigogine-Flory-Patterson theory to excess molar volume and speed of sound of 1-n-butyl-3-methylimidazolium hexafluorophosphate or 1-n-butyl-3-methylimidazolium tetrafluoroborate in methanol and acetonitrile. 2006 , 38, 1377-1384	130
1251	Universality and corresponding state behaviour in the phase diagrams of alcohol solutions of ionic liquids with the BF ₄ ⁻ anion. 2006 , 125, 164-173	19

1250	Sonochemical cycloadditions in ionic liquids. Lessons from model cases involving common dienes and carbonyl dienophiles. 2006 , 13, 408-14		29
1249	Assessing the factors responsible for ionic liquid toxicity to aquatic organisms via quantitative structure-property relationship modeling. 2006 , 8, 82-90		488
1248	Molecular modeling and experimental studies of the thermodynamic and transport properties of pyridinium-based ionic liquids. 2006 , 110, 2821-32		209
1247	Synthesis and Properties of Seven Ionic Liquids Containing 1-Methyl-3-octylimidazolium or 1-Butyl-4-methylpyridinium Cations. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1389-1393	2.8	114
1246	Condensed phase behaviour of ionic liquid-benzene mixtures: congruent melting of a [emim][NTf ₂].C ₆ H ₆ inclusion crystal. 2006 , 2445-7		93
1245	Solubility and Excess Molar Properties of 1,3-Dimethylimidazolium Methylsulfate, or 1-Butyl-3-Methylimidazolium Methylsulfate, or 1-Butyl-3-Methylimidazolium Octylsulfate Ionic Liquids with n-Alkanes and Alcohols: Analysis in Terms of the PFP and FBT Models ¹ . 2006 , 35, 311-334		121
1244	Physical Properties of the Ternary Mixture Ethanol+Water+1-Butyl-3-Methylimidazolium Chloride at 298.15 K. 2006 , 35, 1217-1225		33
1243	High-pressure phase behavior of the binary ionic liquid system 1-octyl-3-methylimidazolium tetrafluoroborate + carbon dioxide. 2006 , 39, 187-191		100
1242	(¹⁴ N) NMR and two-dimensional suspension (¹ H and (¹³ C) HRMAS NMR spectroscopy of ionic liquids immobilized on silica. 2006 , 12, 2880-8		52
1241	Formation of a Biomimetic, Liquid-Crystalline Hydrogel by Self-Assembly and Polymerization of an Ionic Liquid. 2007 , 19, 4423-4431		82
1240	Self-Assembled CuO Monocrystalline Nanoplatelets in Ionic Liquids. 2007 , 28, 1223-1227		7
1239	N-Methyl-N-Alkylpyrrolidinium Bis(perfluoroethylsulfonyl)amide ([NPF ₂]) and Tris(trifluoromethanesulfonyl)methide ([CTF ₃]) Salts: Synthesis and Characterization. 2007 , 60, 57		20
1238	A Brønsted acidic ionic liquid as an efficient and reusable catalyst system for esterification. 2007 , 9, 1208		96
1237	The Structure of Imidazolium-Based Ionic Liquids: Insights From Ion-Pair Interactions. 2007 , 60, 9		182
1236	Improving carbon dioxide solubility in ionic liquids. 2007 , 111, 9001-9		627
1235	P ₁₁ Measurements of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1881-1888	2.8	257
1234	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquids 1-Hexyl-3-methylimidazolium Hexafluorophosphate and 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1080-1085	2.8	282
1233	Temperature and Pressure Dependence of the Viscosity of the Ionic Liquid 1-Butyl-3-methylimidazolium Tetrafluoroborate: Viscosity and Density Relationships in Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2425-2430	2.8	191

1232	Effect of temperature and water content on the shear viscosity of the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide as studied by atomistic simulations. 2007 , 111, 4867-76		207
1231	Clusters, liquids, and crystals of dialkylimidazolium salts. A combined perspective from ab initio and classical computer simulations. 2007 , 40, 1156-64		45
1230	High-Pressure Densities and Derived Thermodynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 80-88	2.8	357
1229	Thermodynamic Phase Behavior of Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1872-1880	2.8	52
1228	Equation of State for the Vapor-Liquid Equilibria of Binary Systems Containing Imidazolium-Based Ionic Liquids. 2007 , 46, 4323-4329		44
1227	Solubility of phosphonium ionic liquid in alcohols, benzene, and alkylbenzenes. 2007 , 111, 4109-15		66
1226	Phase Equilibria of an Ammonium Ionic Liquid with Organic Solvents and Water. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 309-314	2.8	36
1225	Ionic Liquids for and by Analytical Spectroscopy. 2007 , 40, 2447-2464		25
1224	Synthesis of iron oxide nanoparticles using a freshly-made or recycled imidazolium-based ionic liquid. 2007 , 9, 1051		69
1223	Density and Heat Capacity as a Function of Temperature for Binary Mixtures of 1-Butyl-3-methylpyridinium Tetrafluoroborate + Water, + Ethanol, and + Nitromethane. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2261-2265	2.8	60
1222	Comparison of dansylated aminopropyl controlled pore glass solvated by molecular and ionic liquids. 2007 , 23, 843-9		23
1221	Neutral and charged 1-butyl-3-methylimidazolium triflate clusters: equilibrium concentration in the vapor phase and thermal properties of nanometric droplets. 2007 , 111, 4938-50		56
1220	Tetraalkylphosphonium polyoxometalate ionic liquids: novel, organic-inorganic hybrid materials. 2007 , 111, 4685-92		140
1219	Activity Coefficients at Infinite Dilution of Polar Solutes in 1-Butyl-3-methylimidazolium Tetrafluoroborate Using Gas-Liquid Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 131-134	2.8	44
1218	Why does a reduction in hydrogen bonding lead to an increase in viscosity for the 1-butyl-2,3-dimethyl-imidazolium-based ionic liquids?. 2007 , 111, 4844-53		321
1217	Ions at the Surface of a Room-Temperature Ionic Liquid. 2007 , 111, 7682-7691		55
1216	Liquid Phase Behavior of Ionic Liquids with Water and 1-Octanol and Modeling of 1-Octanol/Water Partition Coefficients. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2462-2467	2.8	104
1215	Viscosity, Density, Speed of Sound, and Refractive Index of Binary Mixtures of Organic Solvent + Ionic Liquid, 1-Butyl-3-methylimidazolium Hexafluorophosphate at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2359-2364	2.8	143

1214	Solvatochromic studies of ionic liquid/organic mixtures. 2007 , 111, 131-8		130
1213	Thermophysical Properties of 1-Ethyl-3-methylimidazolium Ethylsulfate and 1-Butyl-3-methylimidazolium Methylsulfate Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1979-1983	2.8	143
1212	Solubility of CO ₂ , CH ₄ , C ₂ H ₆ , C ₂ H ₄ , O ₂ , and N ₂ in 1-hexyl-3-methylpyridinium bis(trifluoromethylsulfonyl)imide: comparison to other ionic liquids. 2007 , 40, 1208-16		499
1211	Thermal Conductivities of Ionic Liquids over the Temperature Range from 293 K to 353 K. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1819-1823	2.8	147
1210	High-Pressure Volumetric Properties of Imidazolium-Based Ionic Liquids: Effect of the Anion. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2204-2211	2.8	211
1209	Physicochemical Properties of Hydrophobic Ionic Liquids Containing 1-Octylpyridinium, 1-Octyl-2-methylpyridinium, or 1-Octyl-4-methylpyridinium Cations. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 833-840	2.8	84
1208	Density and Molar Volume Predictions Using COSMO-RS for Ionic Liquids. An Approach to Solvent Design. 2007 , 46, 6041-6048		199
1207	Experimental Measurement of the Solubility and Diffusivity of CO ₂ in Room-Temperature Ionic Liquids Using a Transient Thin-Liquid-Film Method. 2007 , 46, 8166-8175		208
1206	Size- and Temperature-Dependent Emission Properties of Zinc-blende CdTe Nanocrystals in Ionic Liquid. 2007 , 111, 11811-11815		27
1205	Dicationic molten salts (ionic liquids) as re-usable media for the controlled pyrolysis of cellulose to anhydrosugars. 2007 , 9, 1044		56
1204	Ionic Liquids. 2007 ,		6
1203	Ionic liquids based on dicyanamide anion: influence of structural variations in cationic structures on ionic conductivity. 2007 , 111, 4742-9		176
1202	Interaction Between an Imidazolium Based Ionic Liquid and the AZ91D Magnesium Alloy. 2007 , 9, 185-190		29
1201	Superparamagnetic Colloids: Controlled Synthesis and Niche Applications. 2007 , 19, 33-60		813
1200	Solid-liquid equilibria of three binary systems: {1-Ethyl-3-methylimidazolium hexafluorophosphate+2-phenylimidazole, or 4,5-diphenylimidazole or 2,4,5-triphenylimidazole}. 2007 , 456, 114-119		17
1199	Quantum chemical aided prediction of the thermal decomposition mechanisms and temperatures of ionic liquids. 2007 , 465, 40-47		195
1198	Reactivity of ionic liquids. 2007 , 63, 2363-2389		522
1197	Solubility of mixed gases containing carbon dioxide in ionic liquids: Measurements and predictions. 2007 , 256, 70-74		93

1196	Osmotic coefficients of some imidazolium based ionic liquids in water and acetonitrile at temperature 318.15K. 2007 , 254, 198-203	52
1195	Computer simulation of diffusion coefficients of the room-temperature ionic liquid [bmim][BF ₄]: Problems with classical simulation techniques. 2007 , 131-132, 17-23	66
1194	Molecular dynamics study of conductivity of ionic liquids: The Kohlrausch law. 2007 , 134, 29-33	68
1193	(ρ , βT) Properties of 1-butyl-3-methylimidazolium tetrafluoroborate and 1-butyl-3-methylimidazolium hexafluorophosphate at T = (298.15 to 398.15) K and pressures up to $p = 40$ MPa. 2007 , 136, 177-182	63
1192	Phase equilibria of didecyldimethylammonium nitrate ionic liquid with water and organic solvents. 2007 , 39, 729-736	28
1191	New Synthesis of Single-Crystalline InVO ₄ Nanorods Using an Ionic Liquid. 2007 , 90, 3698-3703	13
1190	Temperature-dependent electronic and vibrational structure of the 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide room-temperature ionic liquid surface: a study with XPS, UPS, MIES, and HREELS. 2007 , 111, 4801-6	92
1189	The gaseous enthalpy of formation of the ionic liquid 1-butyl-3-methylimidazolium dicyanamide from combustion calorimetry, vapor pressure measurements, and ab initio calculations. 2007 , 129, 3930-7	319
1188	Solvent Properties of Functionalized Ionic Liquids for CO ₂ Absorption. 2007 , 85, 31-39	204
1187	Thermal Conductivities of [bmim][PF ₆], [hmim][PF ₆], and [omim][PF ₆] from 294 to 335 K at Pressures up to 20 MPa. 2007 , 28, 1147-1160	98
1186	Biodegradability of imidazolium and pyridinium ionic liquids by an activated sludge microbial community. 2007 , 18, 481-93	227
1185	Application of Task-specific Ionic Liquids for Intensified Separations. 2007 , 138, 1125-1136	42
1184	Synthesis and characterization of two ionic liquids with emphasis on their chemical stability towards metallic lithium. 2007 , 52, 6427-6437	148
1183	Solubility of carbon dioxide and ethane in three ionic liquids based on the bis{(trifluoromethyl)sulfonyl}imide anion. 2007 , 257, 27-34	66
1182	Physicochemical properties and toxicities of hydrophobic piperidinium and pyrrolidinium ionic liquids. 2007 , 261, 421-426	149
1181	A preliminary investigation on the use of organic ionic liquids as green solvents for acylation and oxidation reactions. 2007 , 15, 1797-1805	13
1180	Densities and excess volumes of binary mixtures of the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate with aromatic compound at T=(298.15 to 313.15)K. 2007 , 39, 291-296	100
1179	Thermodynamic properties and polymorphism of 1-alkyl-3-methylimidazolium bis(triflamides). 2007 , 39, 866-877	114

1178	Measurement of activity coefficients at infinite dilution in 1-hexadecyl-3-methylimidazolium tetrafluoroborate ionic liquid. 2007 , 39, 1144-1150	88
1177	Surface tension measurements of imidazolium-based ionic liquids at liquid-vapor equilibrium. 2008 , 263, 168-175	150
1176	Excess properties for binary systems ionic liquid+ethanol: Experimental results and theoretical description using the ERAS model. 2008 , 274, 59-67	145
1175	Thermophysical properties of 1-hexyl-3-methyl imidazolium based ionic liquids with tetrafluoroborate, hexafluorophosphate and bis(trifluoromethylsulfonyl)imide anions. 2008 , 40, 1433-1438	186
1174	Estimates of Internal Pressure and Molar Refraction of Imidazolium Based Ionic Liquids as a Function of Temperature. 2008 , 37, 203-214	113
1173	Volumetric Properties of the Ionic Liquid, 1-Butyl-3-methylimidazolium Tetrafluoroborate, in Organic Solvents at T = 298.15K. 2008 , 29, 534-545	34
1172	Densities and Excess, Apparent, and Partial Molar Volumes of Binary Mixtures of BMIMBF ₄ + Ethanol as a Function of Temperature, Pressure, and Concentration. 2008 , 29, 505-533	66
1171	Characterization of phosphonium ionic liquids through a linear solvation energy relationship and their use as GLC stationary phases. 2008 , 390, 1605-17	152
1170	Study on imidazolium-based ionic liquids with scanning atom probe and Knudsen effusion mass spectrometry. 2008 , 40, 1614-1618	15
1169	Rheology of 1-butyl-3-methylimidazolium chloride cellulose solutions. I. Shear rheology. 2008 , 110, 1175-1181	84
1168	Rheology of 1-butyl-3-methylimidazolium chloride cellulose solutions. III. Elongational rheology. 2008 , 110, 3203-3208	15
1167	Strong, localized, and directional hydrogen bonds fluidize ionic liquids. 2008 , 47, 8731-4	340
1166	Starke, lokalisierte und gerichtete H-Brücken machen ionische Flüssigkeiten beweglicher. 2008 , 120, 8859-8862	59
1165	Non-ideal behaviour of a room temperature ionic liquid in an alkoxyethanol or poly ethers at T=(298.15 to 318.15)K. 2008 , 40, 32-39	74
1164	Excess molar properties of ternary system (ethanol+water+1,3-dimethylimidazolium methylsulphate) and its binary mixtures at several temperatures. 2008 , 40, 1208-1216	53
1163	Density, viscosity and electrical conductivity of 1-butyl-3-methylimidazolium hexafluorophosphate + monoethanolamine and + N, N-dimethylethanolamine. 2008 , 143, 100-108	87
1162	Rhythmic melting and crystallizing of ionic liquid 1-butyl-3-methylimidazolium bromide. 2008 , 458, 88-91	35
1161	¹ H NMR study on reorientational dynamics of an ionic liquid, 1-butyl-3-methylimidazolium bromide, accompanied with phase transitions. 2008 , 459, 89-93	37

1160	Intermittent crystallization of an ionic liquid: 1-Isopropyl-3-methylimidazolium bromide. 2008 , 463, 369-372		21
1159	Extension of the Ye and Shreeve group contribution method for density estimation of ionic liquids in a wide range of temperatures and pressures. 2008 , 263, 26-32		243
1158	Pressure-Volume-Temperature (PVT) measurements of ionic liquids ([bmim+][PF6], [bmim+][BF4], [bmim+][OCSO4]) and analysis with the Sanchez-Lacombe equation of state. 2008 , 264, 147-155		125
1157	Ionic liquids as diathermic fluids for solar trough collectors-Technology: A corrosion study. 2008 , 92, 510-517		30
1156	Measurement and correlation of infinite dilution partition coefficients of aromatic compounds in the ionic liquid 1-butyl-3-methyl-imidazolium hexafluorophosphate ([bmim][PF6])/CO ₂ system at temperatures from 313 to 353K and at pressures up to 16MPa. 2008 , 43, 430-437		33
1155	Thermochemical properties of 1-butyl-3-methylimidazolium nitrate. 2008 , 474, 25-31		66
1154	Interactions and dynamics in ionic liquids. 2008 , 112, 4854-8		148
1153	Hydrothermal synthesis of sheaf-like CuO via ionic liquids. 2008 , 62, 385-388		70
1152	Phase Equilibria of (1-Ethyl-3-methylimidazolium Ethylsulfate + Hydrocarbon, + Ketone, and + Ether) Binary Systems. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 498-502	2.8	41
1151	Molecular modelling simulations to predict density and solubility parameters of ionic liquids. 2008 , 34, 1167-1175		35
1150	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2133-2143	2.8	124
1149	Critical Properties, Normal Boiling Temperature, and Acentric Factor of Another 200 Ionic Liquids. 2008 , 47, 1318-1330		232
1148	Densities and Derived Thermodynamic Properties of Imidazolium-, Pyridinium-, Pyrrolidinium-, and Piperidinium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 805-811	2.8	216
1147	Heat Capacities of Ionic Liquids as a Function of Temperature at 0.1 MPa. Measurement and Prediction. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2148-2153	2.8	143
1146	From ionic liquid to electrolyte solution: dynamics of 1-N-butyl-3-N-methylimidazolium tetrafluoroborate/dichloromethane mixtures. 2008 , 112, 12913-9		87
1145	Density, refractive index, interfacial tension, and viscosity of ionic liquids [EMIM][EtSO ₄], [EMIM][NTf ₂], [EMIM][N(CN) ₂], and [OMA][NTf ₂] in dependence on temperature at atmospheric pressure. 2008 , 112, 12420-30		260
1144	A Group Contribution Method for Heat Capacity Estimation of Ionic Liquids. 2008 , 47, 5751-5757		130
1143	What keeps ionic liquids in flow?. 2008 , 10, 6921-4		116

1142	Interaction of water with the model ionic liquid [bmim][BF ₄]: molecular dynamics simulations and comparison with NMR data. 2008 , 112, 7826-36		214
1141	Bristled acidic ionic liquids as novel catalysts for the hydrolyzation of soybean isoflavone glycosides. 2008 , 9, 1307-1311		57
1140	Free volume dependence of the internal rotation of a molecular rotor probe in room temperature ionic liquids. 2008 , 112, 16626-32		67
1139	Extraction of alcohols from water with 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. 2008 , 10, 1301		106
1138	Effect of Water on the Electrochemical Window and Potential Limits of Room-Temperature Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2884-2891	2.8	421
1137	Influence of different branched alkyl side chains on the properties of imidazolium-based ionic liquids. 2008 , 18, 5267		102
1136	Solvent screening for a hard-to-dissolve molecular crystal. 2008 , 10, 5050-6		23
1135	Flammability and Thermal Analysis Characterization of Imidazolium-Based Ionic Liquids. 2008 , 47, 6327-6332		82
1134	Selective Extraction of Copper, Mercury, Silver, and Palladium Ions from Water Using Hydrophobic Ionic Liquids. 2008 , 47, 5080-5086		133
1133	Fourier transform infrared studies in hypergolic ignition of ionic liquids. 2008 , 112, 7816-24		112
1132	Heat Capacities and Excess Enthalpies of 1-Ethyl-3-methylimidazolium-Based Ionic Liquids and Water. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2112-2119	2.8	132
1131	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 716-726	2.8	218
1130	Thermodynamical and structural properties of imidazolium based ionic liquids from molecular simulation. 2008 , 128, 154509		56
1129	Thermophysic comparative study of two isomeric pyridinium-based ionic liquids. 2008 , 112, 3077-84		80
1128	Microwave-Assisted Synthesis and Characterization of CuO Nanocrystals. 2008 , 29, 508-513		18
1127	Relative hydrophobicity and hydrophilicity of some "ionic liquid" anions determined by the 1-propanol probing methodology: a differential thermodynamic approach. 2008 , 112, 2655-60		36
1126	Activity coefficients at infinite dilution of organic compounds in 1-(meth)acryloyloxyalkyl-3-methylimidazolium bromide using inverse gas chromatography. 2008 , 112, 3773-85		76
1125	Densities and Viscosities of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate + H ₂ O Binary Mixtures at T = (303.15 to 343.15) K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2408-2411	2.8	83

1124	Correlation between surface tension and void fraction in ionic liquids. 2008 , 112, 12401-7		34
1123	Physicochemical characterization of n-butyl-3-methylpyridinium dicyanamide [corrected] ionic liquid. 2008 , 112, 12461-7		45
1122	Ruthenium aminophenanthroline metallopolymer films electropolymerized from an ionic liquid: deposition and electrochemical and photonic properties. 2008 , 24, 11233-8		34
1121	Densities and Excess Enthalpies for Ionic Liquids + Ethanol or + Nitromethane. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1298-1301	2.8	54
1120	Room temperature ionic liquids containing low water concentrations-a molecular dynamics study. 2008 , 10, 4240-8		82
1119	Liquid-liquid phase transition in solutions of ionic liquids with halide anions: Criticality and corresponding states. 2008 , 80, 1613-1630		25
1118	Physical Properties of Ionic Liquids for Electrochemical Applications. 47-82		8
1117	Studies on Thermal Properties of Selected Aprotic and Protic Ionic Liquids. 2008 , 43, 2473-2488		30
1116	Preparation of FePt Nanoparticles with a Narrow Size Distribution in Ionic Liquids. 2008 , 37, 1034-1035		8
1115	Electrochemical Behavior of $\text{Li}[\text{sub } 2]\text{FeSiO}[\text{sub } 4]$ with Ionic Liquids at Elevated Temperature. 2009 , 156, A619		57
1114	Shear viscosity of ionic liquids from non-equilibrium molecular dynamics simulation. 2009 , 35, 685-690		16
1113	Trialkyl-Substituted Imidazolium-Based Ionic Liquids for Electrochemical Applications: Basic Physicochemical Properties. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 855-860	2.8	46
1112	Representation of Phase Behavior of Ionic Liquids Using the Equation of State for Square-well Chain Fluids with Variable Range. 2009 , 17, 983-989		11
1111	Temperature dependence of the dielectric properties and dynamics of ionic liquids. 2009 , 10, 723-33		175
1110	Applying the inductive effect for synthesizing low-melting and low-viscosity imidazolium-based ionic liquids. 2009 , 10, 516-9		21
1109	Novel gelling systems of kappa-, iota- and lambda-carrageenans and their composite gels with cellulose using ionic liquid. 2009 , 9, 376-82		100
1108	MLP prediction for ionic liquids using neural networks. 2009 , 40, 213-232		66
1107	Mass spectrometric analysis of imidazolium-based ionic liquids by scanning atom probe. 2009 , 281, 37-40		13

1106	Estimation of Density as a Function of Temperature and Pressure for Imidazolium-Based Ionic Liquids Using a Multilayer Net with Particle Swarm Optimization. 2009 , 30, 883-909	46
1105	Effect of Temperature and Composition on the Density and Viscosity of Binary Mixtures of Ionic Liquid with Alcohols. 2009 , 38, 779-799	66
1104	Temperature Dependence of Physical Properties of Imidazolium Based Ionic Liquids: Internal Pressure and Molar Refraction. 2009 , 38, 1043-1053	59
1103	Aggregation Behavior of Pyridinium-Based Ionic Liquids in Aqueous Solution. 2009 , 38, 1622-1634	38
1102	Equation of state for ionic liquids. 2009 , 47, 656-663	9
1101	Phase behavior of room temperature ionic liquid H ₂ O mixtures: N, N-diethyl-N-methyl-N-2-methoxyethyl ammonium tetrafluoroborate. 2009 , 150, 16-21	38
1100	Buoyancy density measurements for 1-alkyl-3-methylimidazolium based ionic liquids with tetrafluoroborate anion. 2009 , 282, 31-37	37
1099	Anion effects in imidazolium ionic liquids on the performance of IPMCs. 2009 , 137, 539-546	51
1098	On the addition of conducting ceramic nanoparticles in solvent-free ionic liquid electrolyte for dye-sensitized solar cells. 2009 , 93, 1411-1416	37
1097	Heat capacities and electrical conductivities of 1-n-butyl-3-methylimidazolium-based ionic liquids. 2009 , 482, 42-48	66
1096	Molar heat capacity and electrolytic conductivity of aqueous solutions of [Bmim][MeSO ₄] and [Bmim][triflate]. 2009 , 496, 105-109	23
1095	Ultrasound-assisted green synthesis of nanocrystalline ZnO in the ionic liquid [hmim][NTf ₂]. 2009 , 16, 120-3	93
1094	Fluctuational equation of state and hypothetical phase diagram of superheated water and two imidazolium-based ionic liquids. 2009 , 148, 18-23	7
1093	Heat capacities and electrical conductivities of 1-ethyl-3-methylimidazolium-based ionic liquids. 2009 , 41, 103-108	70
1092	Measurements of the density and refractive index for 1-n-butyl-3-methylimidazolium-based ionic liquids. 2009 , 41, 301-307	136
1091	Excess molar properties for binary systems of alkylimidazolium-based ionic liquids + nitromethane. Experimental results and ERAS-model calculations. 2009 , 41, 334-341	105
1090	Application of Prigogine-Flory-Patterson theory to excess molar volume of mixtures of 1-butyl-3-methylimidazolium ionic liquids with N-methyl-2-pyrrolidinone. 2009 , 41, 265-272	62
1089	Excess enthalpy, density, and heat capacity for binary systems of alkylimidazolium-based ionic liquids + water. 2009 , 41, 161-166	162

1088	Densities and volumetric properties of binary mixtures of the ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate with benzaldehyde at T=(298.15 to 313.15)K. 2009 , 41, 888-892		47
1087	Heat capacity and electrical conductivity of aqueous mixtures of [Bmim][BF ₄] and [Bmim][PF ₆]. 2009 , 40, 205-212		35
1086	The use of ionic liquids as efficient extraction medium in the reactive separation of cycloolefins from cyclohexane. 2009 , 154, 241-245		26
1085	Ionic liquid imbibition of ceramic nanofiltration membranes. 2009 , 345, 182-190		18
1084	Group Contribution Method for Predicting Melting Points of Imidazolium and Benzimidazolium Ionic Liquids. 2009 , 48, 2212-2217		36
1083	Hydrophobicity/hydrophilicity of 1-butyl-2,3-dimethyl and 1-ethyl-3-methylimidazolium ions: toward characterization of room temperature ionic liquids. 2009 , 113, 14754-60		36
1082	Relaxation of Thin Films of Polystyrene Floating on Ionic Liquid Surface. 2009 , 42, 9111-9117		55
1081	Solubilities of 1-Ethylpyridinium Hexafluorophosphate in Ethanol + Water from (278.15 to 345.15) K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 75-77	2.8	18
1080	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	2.8	76
1079	Existence of nearly-free hydrogen bonds in an ionic liquid, N,N-diethyl-N-methyl-N-(2-methoxyethyl) ammonium tetrafluoroborate-water at 77 K. 2009 , 113, 8091-5		33
1078	Solubilities of 1,1'-(Butane-1,4-diyl)-bis(pyridinium) Dihexafluorophosphate in Acetone + Water from (278.15 to 328.15) K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1385-1388	2.8	11
1077	Thermophysical study of 1-butyl-2-methylpyridinium tetrafluoroborate ionic liquid. 2009 , 113, 11936-42		34
1076	Alkyl chain interaction at the surface of room temperature ionic liquids: systematic variation of alkyl chain length (R = C(1)-C(4), C(8)) in both cation and anion of [RMIM][R-OSO(3)] by sum frequency generation and surface tension. 2009 , 113, 923-33		113
1075	On the chemical stabilities of ionic liquids. 2009 , 14, 3780-813		370
1074	Ionic liquids formed with polycyano 1,1,3,3-tetracyanoallyl anions: substituent effects of anions on liquid properties. 2009 , 113, 8960-6		23
1073	Electrochemistry of Room-Temperature Ionic Liquids and Melts. 2009 , 63-174		36
1072	Density, Excess Molar Volume, and Viscosity for the Methyl Methacrylate + 1-Butyl-3-methylimidazolium Hexafluorophosphate Ionic Liquid Binary System at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2307-2311	2.8	109
1071	Thermophysical properties of ionic liquids. 2010 , 290, 185-212		80

1070	Density, Viscosity, and Surface Tension of Synthesis Grade Imidazolium, Pyridinium, and Pyrrolidinium Based Room Temperature Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2803-2812	2.8	291
1069	Synthesis and properties of ionic liquids based on 1-methyl-3-(2-phenethyl)imidazolium. 2009 , 87, 1650-1655		3
1068	Modeling pVT Properties and Phase Equilibria for Systems Containing Ionic Liquids Using a New Lattice-Fluid Equation of State. 2009 , 48, 11189-11201		23
1067	A potential ionic liquid for CO ₂ -separating gas membranes: selection and gas solubility studies. 2009 , 11, 185-192		109
1066	Dynamics of imidazolium ionic liquids from a combined dielectric relaxation and optical Kerr effect study: evidence for mesoscopic aggregation. 2009 , 131, 11140-6		232
1065	Influence of Thermophysical Properties of Ionic Liquids in Chemical Process Design. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2569-2575	2.8	100
1064	Viscosity, Interfacial Tension, Density, and Refractive Index of Ionic Liquids [EMIM][MeSO ₃], [EMIM][MeOHPO ₂], [EMIM][OcSO ₄], and [BBIM][NTf ₂] in Dependence on Temperature at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2576-2583	2.8	102
1063	Designing Imidazole-Based Ionic Liquids and Ionic Liquid Monomers for Emerging Technologies. 2009 , 49, 291-314		238
1062	Electrochemical and spectral properties of ferrocene (Fc) in ionic liquid: 1-butyl-3-methylimidazolium triflimide, [BMIM][NTf ₂]. Concentration effects. 2009 , 113, 1085-99		41
1061	Thermophysical Properties of N-Octyl-3-methylpyridinium Tetrafluoroborate. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 236-240	2.8	36
1060	Structural Evidence for the Ordered Crystallites of Ionic Liquid in Confined Carbon Nanotubes. 2009 , 113, 10013-10020		76
1059	Acute toxic effects of ionic liquids on zebra mussel (<i>Dreissena polymorpha</i>) survival and feeding. 2009 , 11, 548		69
1058	Development of OPLS-AA Force Field Parameters for 68 Unique Ionic Liquids. 2009 , 5, 1038-50		314
1057	Kinetics and Thermodynamics of Hydrogen Oxidation and Oxygen Reduction in Hydrophobic Room-Temperature Ionic Liquids. 2009 , 156, B943-B954		23
1056	Polarizable force field development and molecular dynamics simulations of ionic liquids. 2009 , 113, 11463-78		507
1055	In Silico Prediction of Molecular Volumes, Heat Capacities, and Temperature-Dependent Densities of Ionic Liquids. 2009 , 48, 2290-2296		106
1054	Conductivities of Binary Mixtures of Ionic Liquids with Polar Solvents. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 472-479	2.8	228
1053	Melting and Crystallization Behaviors of an Ionic Liquid, 1-Isopropyl-3-methylimidazolium Bromide, Studied by Using Nanowatt-Stabilized Differential Scanning Calorimetry. 2009 , 82, 806-812		20

1052	The influence of an electric field on the wetting of an SiO ₂ film by ionic liquids. 2010 , 84, 689-694	1
1051	Voltammetry in room temperature ionic liquids: comparisons and contrasts with conventional electrochemical solvents. 2010 , 5, 202-30	259
1050	Thermophysical properties of ionic liquids. 2010 , 43-60	3
1049	Electrospinning of polyacrylonitrile fibers from ionic liquid solution. 2010 , 98, 517-523	23
1048	The synthesis of 1,8-naphthalimide groups containing imidazolium salts/ionic liquids using [PPF6] ⁻ TFSI ⁻ anions and their photophysical, electrochemical and thermal properties. 2010 , 86, 206-216	19
1047	Heat transfer: A review of 2004 literature. 2010 , 53, 4343-4396	42
1046	Synthesis and temperature dependence of physical properties of four pyridinium-based ionic liquids: Influence of the size of the cation. 2010 , 42, 1324-1329	50
1045	The effects of temperature on the performance of electrochemical double layer capacitors. 2010 , 195, 7484-7488	32
1044	Zwitterionic and mesoionic liquids: Molecular aggregation in 3-methylsyringone. 2010 , 53, 2063-2069	4
1043	Volumetric Properties of Binary Mixtures of the Ionic Liquid 1-Butyl-3-Methylimidazolium Tetrafluoroborate with Aniline. 2010 , 39, 219-230	35
1042	Adsorption and corrosion inhibition of amphiphilic compounds on steel pipeline grade API 5L X52 in sulphuric acid 1 M. 2010 , 40, 1605-1617	20
1041	Thermal Stability and Thermal Decomposition Kinetics of 1-Butyl-3-methylimidazolium Dicyanamide. 2010 , 18, 736-741	44
1040	Ionic liquids as solvent probes for NMR cryoporometry. 2010 , 11, 87-9	13
1039	Temperature dependence of interactions between stable piperidine-1-yloxy derivatives and a semicrystalline ionic liquid. 2010 , 11, 2182-90	16
1038	Synthesis, structure, and physico-optical properties of manganate(II)-based ionic liquids. 2010 , 16, 3355-65	95
1037	Nitrocyanamide-based ionic liquids and their potential applications as hypergolic fuels. 2010 , 16, 5736-43	103
1036	Thermophysical properties of 1-alkylpyridinium bis(trifluoromethylsulfonyl)imide ionic liquids. 2010 , 42, 491-495	85
1035	Volumetric properties, viscosity and refractive index of the protic ionic liquid, pyrrolidinium octanoate, in molecular solvents. 2010 , 42, 834-845	123

1034	Determination of phase transition points of ionic liquids by combination of thermal analysis and conductivity measurements at very low heating and cooling rates. 2010 , 42, 900-903	23
1033	Electrolytic conductivity and molar heat capacity of two aqueous solutions of ionic liquids at room-temperature: Measurements and correlations. 2010 , 42, 994-998	32
1032	New ionic liquids with the bis[bis(pentafluoroethyl)phosphinyl]imide anion, [(C ₂ F ₅) ₂ P(O)] ₂ N ⁻ Synthesis and characterization. 2010 , 131, 325-332	37
1031	The role of hydrogen atoms in interactions involving imidazolium-based ionic liquids. 2010 , 972, 22-34	128
1030	Thermophysical properties of ionic liquids: Do we know how to measure them accurately?. 2010 , 156, 10-17	47
1029	Physical and electrochemical properties of ionic liquids 1-ethyl-3-methylimidazolium tetrafluoroborate, 1-butyl-3-methylimidazolium trifluoromethanesulfonate and 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide. 2010 , 157, 43-50	177
1028	Room temperature ionic liquids in electrosynthesis and spectroelectrochemical characterization of poly(para-phenylene). 2010 , 55, 2527-2535	19
1027	Studies on the density, heat capacity, surface tension and infinite dilution diffusion with the ionic liquids [C ₄ mim][NTf ₂], [C ₄ mim][dca], [C ₂ mim][EtOSO ₃] and [Aliquat][dca]. 2010 , 294, 157-179	155
1026	Purification of ionic liquids by supercritical CO ₂ monitored by infrared spectroscopy. 2010 , 55, 395-400	16
1025	Surface characterization of imidazolium ionic liquids by high-resolution Rutherford backscattering spectroscopy and X-ray photoelectron spectroscopy. 2010 , 604, 464-469	53
1024	Thermodynamic properties of 1-butyl-3-methylimidazolium trifluoromethanesulfonate ionic liquid in the condensed state. 2010 , 511, 119-123	11
1023	Extraction of biofuels and biofeedstocks from aqueous solutions using ionic liquids. 2010 , 34, 1406-1412	81
1022	The phase envelopes of alternative solvents (ionic liquid, CO ₂) and building blocks of biomass origin (lactic acid, propionic acid). 2010 , 295, 177-185	31
1021	A general design platform for ionic liquid ions based on bridged multi-heterocycles with flexible symmetry and charge. 2010 , 46, 3544-6	13
1020	Densities, Heats of Formation, Energetic Properties, and Thermodynamics of Formation of Energetic Nitrogen-Rich Salts Containing Substituted Protonated and Methylated Tetrazole Cations: A Computational Study. 2010 , 114, 13142-13152	47
1019	Regular Solution Theory for Low Pressure Carbon Dioxide Solubility in Room Temperature Ionic Liquids: Ionic Liquid Solubility Parameter from Activation Energy of Viscosity. 2010 , 49, 5846-5853	68
1018	Temperature Dependence Measurements of the Density at 0.1 MPa for 1-Alkyl-3-methylimidazolium-Based Ionic Liquids with the Trifluoromethanesulfonate and Tetrafluoroborate Anion. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4054-4057	2.8 45
1017	Influence of the anion on the electrical conductivity and glass formation of 1-butyl-3-methylimidazolium ionic liquids. 2010 , 133, 034503	60

1016	Chapter 4:Heat Capacities and Related Properties of Liquid Mixtures. 2010 , 54-85		6
1015	Density, Viscosity, and Performances of Carbon Dioxide Capture in 16 Absorbents of Amine + Ionic Liquid + H ₂ O, Ionic Liquid + H ₂ O, and Amine + H ₂ O Systems. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3513-3519	2.8	123
1014	Thermodynamic and Thermophysical Properties of Ionic Liquid + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4946-4950	2.8	120
1013	PEGylated Imidazolium Ionic Liquid Electrolytes: Thermophysical and Electrochemical Properties. 2010 , 22, 6347-6360		80
1012	Heat Capacity of Liquids: Critical Review and Recommended Values. Supplement II. 2010 , 39, 013103		76
1011	The Conductivity of Imidazolium-Based Ionic Liquids from (85 to 195) °C. A. Variation of Cation Alkyl Chain <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1768-1773	2.8	143
1010	The Conductivity of Imidazolium-Based Ionic Liquids from (248 to 468) K. B. Variation of the Anion <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1774-1778	2.8	148
1009	Effect of Water on the Viscosities and Densities of 1-Butyl-3-methylimidazolium Dicyanamide and 1-Butyl-3-methylimidazolium Tricyanomethane at Atmospheric Pressure <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 645-652	2.8	200
1008	The role of the C2 position in interionic interactions of imidazolium based ionic liquids: a vibrational and NMR spectroscopic study. 2010 , 12, 14153-61		244
1007	Physical Properties of Selected Ionic Liquids for Use as Electrolytes and Other Industrial Applications. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 778-782	2.8	73
1006	Density and Surface Tension of Ionic Liquids [C _n py][NTf ₂] (n = 2, 4, 5). <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4928-4930	2.8	75
1005	Thermodynamic, dynamic, and structural properties of ionic liquids comprised of 1-butyl-3-methylimidazolium cation and nitrate, azide, or dicyanamide anions. 2010 , 114, 12802-10		31
1004	Isobaric Heat Capacities of the Ionic Liquids [C _n mim][Tf ₂ N] (n = 6, 8) from (323 to 573) K at 10 MPa. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1808-1813	2.8	16
1003	Nonsolvent annealing polymer films with ionic liquids. 2010 , 26, 15486-93		2
1002	Guggenheim's rule and the enthalpy of vaporization of simple and polar fluids, molten salts, and room temperature ionic liquids. 2010 , 114, 9183-94		27
1001	Effects of methylation at the 2 position of the cation ring on phase behaviors and conformational structures of imidazolium-based ionic liquids. 2010 , 114, 9201-8		79
1000	Solubilities of 1,1-(Hexane-1,6-diyl)-bis(pyridinium) Dihexafluorophosphate in (Water + Acetone). <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1022-1024	2.8	
999	Solubilities of 1,1-(Propane-1,3-diyl)-bis(pyridinium) Dihexafluorophosphate in Dimethyl Sulfoxide + Water. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 586-588	2.8	2

998	Glass dynamics and anomalous aging in a family of ionic liquids above the glass transition temperature. 2010 , 114, 15742-52		32
997	Solubilities of 1,1?-(Pentane-1,5-diyl)-bis(pyridinium) Dihexafluorophosphate in Dimethyl Sulfoxide + Water. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 551-553	2.8	
996	Solubility of 1,1?-(Ethane-1,2-diyl)-bis(3-methylpyridinium) Dihexafluorophosphate in Different Solvents. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1710-1713	2.8	3
995	Liquid-Liquid Phase Behavior of Solutions of 1-Octyl- and 1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide (C8,10mimNTf2) in n-Alkyl Alcohols. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2030-2038	2.8	22
994	Synthesis, Physicochemical Properties, and Toxicity Data of New Hydrophobic Ionic Liquids Containing Dimethylpyridinium and Trimethylpyridinium Cations. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1971-1979	2.8	42
993	Solubility of 1,1?-(Butane-1,4-diyl)-bis(3-methylpyridinium) Dihexafluorophosphate in Different Solvents from (288.15 to 333.15) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3942-3945	2.8	6
992	Thermodynamic Properties of 1-Propyl-3-methylimidazolium Glutamic Acid Salt. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4036-4038	2.8	3
991	Heat Capacity of Ionic Liquids: Experimental Determination and Correlations with Molar Volume. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2719-2724	2.8	100
990	In silico prediction of the melting points of ionic liquids from thermodynamic considerations: a case study on 67 salts with a melting point range of 337 degrees C. 2010 , 114, 11133-40		86
989	Synthesis of an ionic liquid with an iron coordination cation. 2010 , 39, 8609-12		50
988	Thermophysical Properties of Amino Acid-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1505-1515	2.8	102
987	Thermal Properties of Ionic Liquids and Ionanofluids of Imidazolium and Pyrrolidinium Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 653-661	2.8	179
986	Pressure and Temperature Dependence of Isobaric Heat Capacity for [Emim][BF4], [Bmim][BF4], [Hmim][BF4], and [Omim][BF4]. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 600-604	2.8	53
985	All-solid-state dye-sensitized solar cells incorporating SWCNTs and crystal growth inhibitor. 2010 , 20, 3619		62
984	Nanocomposites of ionic liquids confined in mesoporous silica gels: preparation, characterization and performance. 2010 , 12, 1971-81		67
983	New Working Pairs for Absorption Chillers. 2010 , 221		
982	Anion influence on thermophysical properties of ionic liquids: 1-butylpyridinium tetrafluoroborate and 1-butylpyridinium triflate. 2010 , 114, 3601-7		65
981	Thermophysical Properties and Water Saturation of [PF6]-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5065-5073	2.8	70

980	Heat Capacity of Room-Temperature Ionic Liquids: A Critical Review. 2010 , 39, 033108	83
979	Structural properties of 1-alkyl-3-methylimidazolium bis{(trifluoromethyl)sulfonyl}amide ionic liquids: X-ray diffraction data and molecular dynamics simulations. 2010 , 114, 16398-407	92
978	Density Prediction of Ionic Liquids at Different Temperatures and Pressures Using a Group Contribution Equation of State Based on Electrolyte Perturbation Theory. 2010 , 49, 4420-4425	35
977	A GROUP CONTRIBUTION METHOD TO PREDICT ρ -P OF IONIC LIQUIDS. 2010 , 197, 974-1015	28
976	Iodine-free high efficient quasi solid-state dye-sensitized solar cell containing ionic liquid and polyaniline-loaded carbon black. 2010 , 20, 2356	108
975	Density and Surface Tension of Ionic Liquid [C2mim][PF3(CF2CF3)3] and Prediction of Properties [Cnmim][PF3(CF2CF3)3] (n = 1, 3, 4, 5, 6). <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2586-2589 ⁸	52
974	Vapour pressure of ionic liquids. 2010 , 108, 211-214	67
973	NMR study on relationships between reorientational dynamics and phase behaviour of room-temperature ionic liquids: 1-alkyl-3-methylimidazolium cations. 2010 , 12, 2959-67	57
972	Influence of imidazolium bis(trifluoromethylsulfonylimide)s on the rotation of spin probes comprising ionic and hydrogen bonding groups. 2010 , 12, 1933-40	29
971	Improvement of radiation resistance and an estimate of solvated electron yield of the ionic liquid [Bmim]Cl by the addition of FeCl(3). 2010 , 174, 650-7	3
970	Hirshfeld surface analysis of phosphonium salts. 2010 , 12, 4321	19
969	Synthesis of N-cyanoalkyl-functionalized imidazolium nitrate and dicyanamide ionic liquids with a comparison of their thermal properties for energetic applications. 2011 , 35, 1701	24
968	Columnar thermotropic mesophases formed by dimeric liquid-crystalline ionic liquids exhibiting large mesophase ranges. 2011 , 35, 2910	29
967	Understanding the effect of the C2 proton in promoting low viscosities and high conductivities in imidazolium-based ionic liquids: part I. Weakly coordinating anions. 2011 , 115, 14688-97	94
966	Maxwell-Stefan diffusivities in binary mixtures of ionic liquids with dimethyl sulfoxide (DMSO) and H2O. 2011 , 115, 8506-17	29
965	Measurements and Correlation of High-Pressure Densities of Phosphonium Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2205-2217	2.8 37
964	Rational design and one-step formation of multifunctional gel transducer for simple fabrication of integrated electrochemical biosensors. 2011 , 83, 5715-20	28
963	Ambient isobaric heat capacities, C(p,m), for ionic solids and liquids: an application of volume-based thermodynamics (VBT). 2011 , 50, 8565-9	39

962	Soft ionization of thermally evaporated hypergolic ionic liquid aerosols. 2011 , 115, 4630-5		20
961	Densities and Viscosities of [Bmim][PF ₆] and Binary Systems [Bmim][PF ₆] + Ethanol, [Bmim][PF ₆] + Benzene at Several Temperatures and Pressures: Determined by the Falling-Ball Method. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2379-2385	2.8	31
960	Experimental p _v Data for 1-Butyl-3-methylimidazolium Tetrafluoroborate at Temperatures from (240 to 353) K and at Pressures up to 60 MPa. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 426-436	2.8	22
959	Thermophysical Properties of 1-Ethyl-3-methylimidazolium 1,1,2,2-Tetrafluoroethanesulfonate and 1-Ethyl-3-methylimidazolium Ethylsulfate Ionic Liquids as a Function of Temperature. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3589-3597	2.8	41
958	Activity Coefficients at Infinite Dilution of Alkanes, Alkenes, and Alkyl Benzenes in 1-Ethyl-3-methylimidazolium Diethylphosphate Using Gas-Liquid Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3183-3187	2.8	27
957	Temperature dependence measurements and structural characterization of trimethyl ammonium ionic liquids with a highly polar solvent. 2011 , 115, 10086-97		59
956	Effects of methylation at position 2 of cation ring on rotational dynamics of imidazolium-based ionic liquids investigated by NMR spectroscopy: [C4mim]Br vs [C4C1mim]Br. 2011 , 115, 2999-3005		42
955	Effects of Nucleators on the Thermodynamic Properties of Seasonal Energy Storage Materials Based on Ionic Liquids. 2011 , 25, 1811-1816		33
954	Synthesis and characterization of ionic liquids containing copper, manganese, or zinc coordination cations. 2011 , 40, 11396-401		77
953	CO ₂ Separation from Flue Gas Using Polyvinyl-(Room Temperature Ionic Liquid)Room Temperature Ionic Liquid Composite Membranes. 2011 , 50, 9344-9353		106
952	Thermodynamic Properties of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 106-112	2.8	51
951	Intermolecular vibrations and fast relaxations in supercooled ionic liquids. 2011 , 134, 244507		22
950	Review of CO ₂ /CH ₄ Separation Membranes. 2011 , 14, 91-115		40
949	Chameleonic behavior of ionic liquids and its impact on the estimation of solubility parameters. 2011 , 115, 12879-88		38
948	Mesoporous carbon capsules as electrode materials in electrochemical double layer capacitors. 2011 , 13, 2652-5		57
947	Synthesis and properties of thioether spacer containing gemini imidazolium surfactants. 2011 , 27, 14033-44		111
946	Survey of Carbon Dioxide Capture in Phosphonium-Based Ionic Liquids and End-Capped Polyethylene Glycol Using DETA (DETA = Diethylenetriamine) as a Model Absorbent. 2011 , 50, 2822-2830		30
945	Viscosities of Acetate or Chloride-Based Ionic Liquids and Some of Their Mixtures with Water or Other Common Solvents. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 31-34	2.8	191

944	Effect of cation symmetry on the morphology and physicochemical properties of imidazolium ionic liquids. 2011 , 115, 6572-84		149
943	2-Mercaptobenzothiazole as a Corrosion Inhibitor in Low Temperature Ionic Liquids. 2011 , 165-171		3
942	Densities of 1-Butyl-3-methylimidazolium Hexafluorophosphate + Poly(ethylene glycol) in the Temperature Range (283.15 to 363.15) K. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2168-2174	2.8	23
941	Physicochemical Characterization of New Sulfate Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 14-20	2.8	35
940	Low-temperature heat capacities of 1-alkyl-3-methylimidazolium bis(oxalato)borate ionic liquids and the influence of anion structural characteristics on thermodynamic properties. 2011 , 13, 199-206		24
939	Temperature Dependence of the Surface Tension and Density at 0.1 MPa for 1-Ethyl- and 1-Butyl-3-methylimidazolium Dicyanamide. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3454-3462	2.8	50
938	Influence of Molecular Structure on Densities and Viscosities of Several Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4984-4999	2.8	137
937	Performance of quantum chemically derived charges and persistence of ion cages in ionic liquids. A molecular dynamics simulations study of 1-n-butyl-3-methylimidazolium bromide. 2011 , 115, 693-702		118
936	A molecular dynamics investigation of the structural and dynamic properties of the ionic liquid 1-n-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. 2011 , 135, 124507		149
935	Solid-state dye-sensitized solar cell with a charge transfer layer comprising two ionic liquids and a carbon material. 2011 , 21, 15471		27
934	Heat Capacities and Low Temperature Thermal Transitions of 1-Hexyl and 1-Octyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2153-2159	2.8	41
933	Ionic Liquid Based Electrolytes for Dye-Sensitized Solar Cells. 2011 ,		1
932	Antimicrobial Ionic Liquids. 2011 ,		5
931	Volumetric, acoustic and spectroscopic studies for binary mixtures of ionic liquid (1-butyl-3-methylimidazolium hexafluorophosphate) with alkoxyalkanols at T = (288.15 to 318.15) K. 2011 , 163, 128-134		61
930	Modeling of Surface Tension and Viscosity for Non-electrolyte Systems by Means of the Equation of State for Square-well Chain Fluids with Variable Interaction Range. 2011 , 19, 533-542		5
929	Modeling pVT Properties and Vapor-Liquid Equilibrium of Ionic Liquids Using Cubic-plus-association Equation of State. 2011 , 19, 1009-1016		11
928	Power-law behavior in the viscosity of ionic liquids: Existing a similarity in the power law and a new proposed viscosity equation. 2011 , 311, 76-82		26
927	The influence of hydrogen bonding on the physical properties of ionic liquids. 2011 , 13, 14064-75		243

926	Physicochemical properties of green solvents derived from biomass. 2011 , 13, 2062	121
925	Promoting the Formation of Active Sites with Ionic Liquids: A Case Study of MoS ₂ as Hydrogen-Evolution-Reaction Electrocatalyst. 2011 , 3, 1739-1742	30
924	The solvation structures of cellulose microfibrils in ionic liquids. 2011 , 3, 308-20	15
923	Polycaproamide films containing ionic liquids: Microstructure and properties. 2011 , 75, 211-216	
922	Thermophysical properties and phase equilibria study of the binary systems {N-hexylquinolinium bis(trifluoromethylsulfonyl)imide+aromatic hydrocarbons, or an alcohol}. 2011 , 43, 775-781	26
921	Molar heat capacity of four aqueous ionic liquid mixtures. 2011 , 519, 44-49	36
920	Palladium catalysed asymmetric alkylation of benzophenone Schiff base glycine esters in ionic liquids. 2011 , 123, 467-476	2
919	Corresponding states theory for the prediction of surface tension of ionic liquids. 2011 , 17, 217-222	39
918	Thermal and ion transport properties of hydrophilic and hydrophobic polymerized styrenic imidazolium ionic liquids. 2011 , 49, 1287-1296	62
917	Electrochemical Synthesis of Metal Alloys for Magnetic Recording Systems. 2011 , 459-476	2
916	Carborane-Derivatized Low-Melting Salts with Ether-Functionalized Cations [Preparation and Properties. 2011 , 2011, 1910-1920	8
915	Temperature dependence of the viscosity and conductivity of mildly functionalized and non-functionalized [Tf ₂ N] ⁽⁻⁾ ionic liquids. 2011 , 12, 2296-310	75
914	Design, Synthesis, and Electrochemistry of Room-Temperature Ionic Liquids Functionalized with Propylene Carbonate. 2011 , 123, 1346-1349	7
913	Generation of Melamine Polymer Condensates upon Hypergolic Ignition of Dicyanamide Ionic Liquids. 2011 , 123, 8793-8796	11
912	Design, synthesis, and electrochemistry of room-temperature ionic liquids functionalized with propylene carbonate. 2011 , 50, 1310-3	60
911	Generation of melamine polymer condensates upon hypergolic ignition of dicyanamide ionic liquids. 2011 , 50, 8634-7	34
910	Ionic liquids containing the triply negatively charged tricyanomelaminat anion and a B(C ₆ F ₅) ₃ adduct anion. 2011 , 17, 13526-37	10
909	Measurements and correlations of electrolytic conductivity and molar heat capacity for the aqueous ionic liquid systems containing [Emim][EtSO ₄] or [Emim][CF ₃ SO ₃]. 2011 , 35, 1107-1112	19

908	Nucleophilic substitution of hydrogen in naphthalene by chloride (Cl ⁻) in ionic liquids. 2011 , 22, 147-150		4
907	Noncorrosive ionic liquids composed of [HSO ₄] as esterification catalysts. 2011 , 171, 1333-1339		56
906	Estimation of densities of ionic liquids using Patel-Jeja equation of state and critical properties determined from group contribution method. 2011 , 66, 2690-2698		54
905	Experimental and modelling study of CO ₂ absorption in ionic liquids containing Zn (II) ions. 2011 , 4, 59-66		21
904	Anion exchanged polymerized ionic liquids: High free volume single ion conductors. 2011 , 52, 1309-1317		142
903	Predictive model for the heat capacity of ionic liquids using the mass connectivity index. 2011 , 513, 83-87		29
902	Functionalized Ionic Liquids as Lubricants for Steel-Steel Contact. 2011 , 138-139, 630-634		2
901	Rotational dynamics of benzene and water in an ionic liquid explored via molecular dynamics simulations and NMR T ₁ measurements. 2012 , 136, 074508		13
900	Dual-Mode Propellant Properties and Performance Analysis of Energetic Ionic Liquids. 2012 ,		8
899	Multinuclear NMR studies on translational and rotational motion for two ionic liquids composed of BF ₄ anion. 2012 , 116, 11284-91		58
898	Gemini imidazolium surfactants: synthesis and their biophysicochemical study. 2012 , 28, 11969-78		100
897	Ultrasonic Properties of Hydrophobic Bis(trifluoromethylsulfonyl)imide-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3385-3390	2.8	23
896	Understanding the ion jelly conductivity mechanism. 2012 , 116, 2664-76		21
895	Role of Counteranions in Sol-Gel-Derived Alkoxy-Functionalized Ionic-Liquid-Based Organic-Inorganic Hybrid Coatings for SPME. 2012 , 75, 1421-1433		19
894	Density and Viscosity of Binary Mixtures of Thiocyanate Ionic Liquids + Water as a Function of Temperature. 2012 , 41, 1422-1445		73
893	Experimental and Theoretical Study of Two Pyridinium-Based Ionic Liquids. 2012 , 41, 1836-1852		25
892	Improvements on Anhydrous Ethanol Production by Extractive Distillation using Ionic Liquid as Solvent. 2012 , 42, 1016-1026		25
891	¹ H NMR Measurements for 1-Alkyl-3-methylimidazolium-Based Ionic Liquids with Tetrafluoroborate and a Trifluoromethanesulfonate Anion. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 708-720	2.8	28

890	Highly selective extraction of the uranyl ion with hydrophobic amidoxime-functionalized ionic liquids via π coordination. 2012 , 2, 8526		92
889	Ab initio simulations of thermal decomposition and of electron transfer reactions in room temperature ionic liquids. 2012 , 154, 373-89; discussion 439-64, 465-71		14
888	In situ chemical vapor reaction in molten salts for preparation of platinum nanosheets via bubble breakage. 2012 , 22, 12046		14
887	Free volume and phase transitions of 1-butyl-3-methylimidazolium based ionic liquids from positron lifetime spectroscopy. 2012 , 14, 6856-68		38
886	Thermal properties of 1-butyl-3-methylimidazolium dicyanamide at high pressures and temperatures. 2012 , 5,		5
885	A novel composite film for detection and molecular weight determination of organic vapors. 2012 , 22, 13732		34
884	Ultraslow dynamics at crystallization of a room-temperature ionic liquid, 1-butyl-3-methylimidazolium bromide. 2012 , 116, 3991-7		27
883	NMR study of cation dynamics in three crystalline states of 1-butyl-3-methylimidazolium hexafluorophosphate exhibiting crystal polymorphism. 2012 , 116, 3780-8		37
882	P_{H} Measurements for 1-Ethyl and 1-Butyl-3-methylimidazolium Dicyanamides from Their Melting Temperature to 353 K and up to 60 MPa in Pressure. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1213-1221	2.8	9
881	Influence of Structural Variation in Imidazolium-Based Ionic Liquids on Saturation Points of Silica Particles. 2012 , 116, 3274-3280		2
880	Physicochemical Characterization of 1-Butyl-3-methylimidazolium and 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1072-1077	2.8	97
879	Temperature-Dependent Ordering Phenomena of a Polyiodide System in a Redox-Active Ionic Liquid. 2012 , 116, 7989-7992		21
878	Biobutanol Recovery Using Nonfluorinated Task-Specific Ionic Liquids. 2012 , 51, 8293-8301		72
877	Synthesis and optical properties of ZnO nanostructures in imidazolium-based ionic liquids. 2012 , 14, 1191-1195		18
876	Determination of the glass transition temperature of ionic liquids: A molecular approach. 2012 , 543, 88-95		23
875	Inelastic Scattering of Radicals at the Gas/Liquid Interface: Probing Surface Dynamics of BMIMCl, BMIMBF ₄ , and BMIMF ₂ N by Rovibronic Scattering of NO [$2\pi/2(0.5)$]. 2012 , 116, 14284-14294		17
874	Thermal decomposition mechanism of 1-ethyl-3-methylimidazolium bromide ionic liquid. 2012 , 116, 5867-76		47
873	Ionic liquids from renewable biomaterials: synthesis, characterization and application in the pretreatment of biomass. 2012 , 14, 304-307		325

872	High CO ₂ solubility, permeability and selectivity in ionic liquids with the tetracyanoborate anion. 2012 , 2, 11813		96
871	Heat capacities and excess enthalpies of the (N-hexylisoquinolinium thiocyanate ionic liquid + water) binary systems. 2012 , 55, 144-150		25
870	Developing models for correlating ionic liquids density: Part 1 Density at 0.1MPa. 2012 , 331, 33-47		7
869	Adsorption of imidazolium and pyridinium ionic liquids onto montmorillonite: Characterisation and thermodynamic calculations. 2012 , 209, 13-19		73
868	Ionic liquids-based crosslinked copolymer sorbents for headspace solid-phase microextraction of polar alcohols. 2012 , 1245, 32-8		47
867	Properties of Pure 1-Butyl-2,3-dimethylimidazolium Tetrafluoroborate Ionic Liquid and Its Binary Mixtures with Dimethyl Sulfoxide and Acetonitrile. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3142-3148	2.8	50
866	Physical and Excess Properties of Eight Binary Mixtures Containing Water and Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2165-2176	2.8	66
865	Thermal and Transport Properties of Six Ionic Liquids: An Experimental and Molecular Dynamics Study. 2012 , 51, 7242-7254		152
864	High viscosity of imidazolium ionic liquids with the hydrogen sulfate anion: a Raman spectroscopy study. 2012 , 116, 7281-90		57
863	Advances in Development of Solvents for Liquid-Liquid Extraction. 2012 , 451-481		2
862	Viscosity, Interfacial Tension, Self-Diffusion Coefficient, Density, and Refractive Index of the Ionic Liquid 1-Ethyl-3-methylimidazolium Tetracyanoborate as a Function of Temperature at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 828-835	2.8	63
861	The effect of C2 substitution on melting point and liquid phase dynamics of imidazolium based-ionic liquids: insights from molecular dynamics simulations. 2012 , 14, 12157-64		81
860	The Importance of Acetonitrile in the Pharmaceutical Industry and Opportunities for its Recovery from Waste. 2012 , 16, 612-624		76
859	Room temperature ionic liquid-assisted synthesis of mesoporous -alumina. 2012 , 7, 617		
858	A novel route of synthesis of sodium hexafluorosilicate two component cluster crystals using BF ₄ ⁻ containing ionic liquids. 2012 , 361, 51-56		5
857	Long term stability of superoxide ion in piperidinium, pyrrolidinium and phosphonium cations-based ionic liquids and its utilization in the destruction of chlorobenzenes. 2012 , 664, 26-32		48
856	Synthesis and thermal analysis of crosslinked imidazolium-containing polyester networks prepared by Michael addition polymerization. 2012 , 53, 5666-5674		25
855	Isolation and purification of aloe anthraquinones based on an ionic liquid/salt aqueous two-phase system. 2012 , 98, 150-157		66

854	COSMO-RS-Based Ionic-Liquid Selection for Extractive Distillation Processes. 2012 , 51, 11518-11529		87
853	The glass transition and the distribution of voids in room-temperature ionic liquids: a molecular dynamics study. 2012 , 136, 204510		16
852	Phase Equilibria of Binary and Ternary Systems Containing ILs, Dodecane, and Cyclohexanecarboxylic Acid. 2012 , 47, 312-324		13
851	Modeling the solubility of carbon dioxide in imidazolium-based ionic liquids with the PC-SAFT equation of state. 2012 , 116, 14375-88		92
850	A green chemical approach for preparation of PtxCuy nanoparticles with a concave surface in molten salt for methanol and formic acid oxidation reactions. 2012 , 22, 4780		52
849	In situ formed ionic liquids in synthetic esters for significantly improved lubrication. 2012 , 4, 6683-9		36
848	Physicochemical Characterization of New Sulfonate and Sulfate Ammonium Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 241-248	2.8	15
847	Cyano-containing ionic liquids for the extraction of aromatic hydrocarbons from an aromatic/aliphatic mixture. 2012 , 55, 1488-1499		63
846	Simple screening method to identify toxic/non-toxic ionic liquids: agar diffusion test adaptation. 2012 , 83, 55-62		73
845	Mono- and multi-layer adsorption of an ionic liquid on Au(110). 2012 , 14, 6054-66		57
844	Structure, thermodynamic and transport properties of imidazolium-based bis(trifluoromethylsulfonyl)imide ionic liquids from molecular dynamics simulations. 2012 , 110, 1139-1152		23
843	Temperature Dependence and Structural Influence on the Thermophysical Properties of Eleven Commercial Ionic Liquids. 2012 , 51, 2492-2504		142
842	Simultaneous delignification and selective catalytic transformation of agricultural lignocellulose in cooperative ionic liquid pairs. 2012 , 14, 1935		77
841	Preparation of main-chain imidazolium-functionalized amphiphilic block copolymers through combination of condensation polymerization and nitroxide-mediated free radical polymerization and their micelle study. 2012 , 50, 2037-2044		14
840	Ether- and alcohol-functionalized task-specific ionic liquids: attractive properties and applications. 2012 , 41, 4030-66		450
839	Understanding the mechanism of cellulose dissolution in 1-butyl-3-methylimidazolium chloride ionic liquid via quantum chemistry calculations and molecular dynamics simulations. 2012 , 26, 329-37		44
838	Thermophysical Properties of a New Dicationic Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2147-2152	2.8	25
837	Silica ionogels for proton transport. 2012 , 22, 17140		35

836	State-of-the-Art of CO ₂ Capture with Ionic Liquids. 2012 , 51, 8149-8177		740
835	Reactive half-metallocenium ionic liquids that undergo solventless ligand exchange. 2012 , 18, 8070-5		26
834	Cyclic thiouronium ionic liquids: physicochemical properties and their electronic structure probed by X-ray induced photoelectron spectroscopy. 2012 , 18, 8288-91		14
833	The peculiar nature of molecular interactions between an imidazolium ionic liquid and acetone. 2012 , 13, 1213-20		58
832	Phase behaviour, interactions, and structural studies of (amines+ionic liquids) binary mixtures. 2012 , 13, 1825-35		22
831	Radicals in ionic liquids. 2012 , 13, 1649-63		36
830	Continuous synthesis of peralkylated imidazoles and their transformation into ionic liquids with improved (electro)chemical stabilities. 2012 , 13, 3146-57		26
829	Mass spectral evaluation of column bleeding for imidazolium-based ionic liquids as GC liquid phases. 2012 , 403, 2673-82		10
828	Activity Coefficients at Infinite Dilution of Alkanes, Alkenes, and Alkyl Benzenes in 1-Butyl-3-methylimidazolium Dibutylphosphate Using Gas-Liquid Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2109-2113	2.8	11
827	Ionic liquids-based extraction: a promising strategy for the advanced nuclear fuel cycle. 2012 , 112, 2100-28		648
826	Group contribution lattice fluid equation of state (GCLF EOS) for ionic liquids. 2012 , 75, 1-13		10
825	Solvation thermodynamics and the physical-chemical meaning of the constant in Abraham solvation equations. 2012 , 87, 125-31		16
824	Volumetric characterization of pyridinium-based ionic liquids. 2012 , 317, 102-109		25
823	Synthesis, characterization and surface properties of long chain β -hydroxy- β -alkyloxy-N-methylimidazolium surfactants. 2012 , 395, 1-9		40
822	Comparison of lignin and cellulose solubilities in ionic liquids by COSMO-RS analysis and experimental validation. 2012 , 37, 155-163		74
821	The effect of position and length of alkyl substituents in pyridinium based ionic liquids on temperature dependent transport properties. 2012 , 70, 124-130		13
820	Molecular simulations of imidazolium-based ionic liquids with [l-lactate] ⁻ anion and the binary mixture of [bmim][l-lactate] and 1-octanol. 2012 , 165, 63-70		4
819	High-pressure volumetric properties of ionic liquids: 1-butyl-3-methylimidazolium tetrafluoroborate, [C4mim][BF ₄], 1-butyl-3-methylimidazolium methylsulfate [C4mim][MeSO ₄] and 1-ethyl-3-methylimidazolium ethylsulfate, [C2mim][EtSO ₄]. 2012 , 165, 161-167		56

818	A group contribution method to predict the glass transition temperature of ionic liquids. 2012 , 528, 38-44	16
817	Thermostability of imidazolium ionic liquids as direct solvents for cellulose. 2012 , 528, 76-84	108
816	Molar heat capacities of choline chloride-based deep eutectic solvents and their binary mixtures with water. 2012 , 530, 52-57	109
815	Michael addition kinetics of ethyl acetoacetate and 2-ethylhexyl acrylate in ionic liquids. 2012 , 53, 1855-1858	7
814	Synthesis of carbolines using microwave-assisted aza-Wittig methodology in ionic liquids. 2012 , 53, 2618-2621	12
813	Modified normal-phase ion-pair chromatographic methods for the facile separation and purification of imidazolium-based ionic compounds. 2012 , 53, 3456-3458	8
812	Thermophysical properties of 1-propylpyridinium tetrafluoroborate. 2012 , 44, 148-153	28
811	Quaternary phosphonium-based ionic liquids: Thermal stability and heat capacity of the liquid phase. 2012 , 45, 16-27	87
810	Volumetric and surface properties of pure ionic liquid n-octyl-pyridinium nitrate and its binary mixture with alcohol. 2012 , 47, 203-208	44
809	Modification of Tao-Mason equation of state to ionic liquids. 2012 , 18, 135-142	10
808	Orientation of carbon fiber precursors from 1-butyl-3-methylimidazolium chloride cellulose solutions. 2013 , 128, 951-957	6
807	CO ₂ separation properties of a glassy aromatic polyimide composite membranes containing high-content 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid. 2013 , 430, 211-222	89
806	Rank-dependent orientational relaxation in an ionic liquid: an all-atom simulation study. 2013 , 132, 1	44
805	Understanding the effect of side groups in ionic liquids on carbon-capture properties: a combined experimental and theoretical effort. 2013 , 15, 3264-72	26
804	A new correlation for estimating thermal conductivity of pure ionic liquids. 2013 , 354, 199-206	38
803	Solubility of sugars and sugar alcohols in ionic liquids: measurement and PC-SAFT modeling. 2013 , 117, 9980-95	59
802	Use of ionic liquids in analytical sample preparation of organic compounds from food and environmental samples. 2013 , 43, 121-145	68
801	Thermal Properties of Cyano-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2187-2193	2.8 111

800	Thermal analysis and heat capacities of pyridinium and imidazolium ionic liquids. 2013 , 565, 178-182	43
799	Thermophysical properties of [CN ₁ C ₁ im][PF ₆] ionic liquids. 2013 , 188, 196-202	57
798	Liquid-Liquid Equilibria of 1-Butanol/Water/IL Systems. 2013 , 52, 18472-18481	77
797	Water effect on physicochemical properties of 1-butyl-3-methylimidazolium based ionic liquids with inorganic anions. 2013 , 177, 267-272	65
796	Systematic study of the thermophysical properties of imidazolium-based ionic liquids with cyano-functionalized anions. 2013 , 117, 10271-83	153
795	Amino acid-functionalized ionic liquid solid sorbents for post-combustion carbon capture. 2013 , 5, 8670-7	97
794	Synthesis of gold nanoparticles in sol-gel glass porogens containing [bmim][BF ₄] ionic liquid. 2013 , 68, 234-244	5
793	Predicting the glass transition temperature of ionic liquids by the quantitative structure property relationship method using a topological index. 2013 , 358, 166-171	12
792	Synthesis, Characterization, and Evaluation of Surface Properties of Cyclohexanoxycarbonylmethylpyridinium and Cyclohexanoxycarbonylmethylimidazolium Ionic Liquids. 2013 , 52, 1179-1189	10
791	Evaluation of the role of an ionic liquid as organophilization agent into montmorillonite for NBR rubber nanocomposite production. 2013 , 83-84, 203-209	27
790	Recyclable ionic liquid tagged Co(salen) catalysts for the oxidation of lignin model compounds. 2013 , 91, 1258-1261	15
789	Towards room-temperature ionic liquid crystals. 2013 , 1, 354-357	21
788	Effect of alkyl and aryl substitutions on 1,2,4-triazolium-based ionic liquids for carbon dioxide separation and capture. 2013 , 3, 3981	28
787	Thermal decomposition of carboxylate ionic liquids: trends and mechanisms. 2013 , 15, 20480-95	179
786	1-Propanol probing methodology: two-dimensional characterization of the effect of solute on H ₂ O. 2013 , 15, 14548-65	31
785	A Study on Permeabilities and Selectivities of Small-Molecule Gases for Composite Ionic Liquid and Polymer Membranes. 2013 , 448-453, 765-770	2
784	Influence of temperature on the electrochemical characteristics of Bi(111) ionic liquid interface. 2013 , 689, 51-56	23
783	A predictive quantitative structure-property relationship for glass transition temperature of 1,3-dialkyl imidazolium ionic liquids. 2013 , 111, 235-246	22

782	Influence of the pressure, temperature, cation and anion on the volumetric properties of ionic liquids: New experimental values for two salts. 2013 , 58, 440-448	33
781	Influence of anion on thermophysical properties of ionic liquids with polar solvent. 2013 , 58, 269-278	40
780	Acoustics as a tool for better characterization of ionic liquids: a comparative study of 1-alkyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]imide room-temperature ionic liquids. 2013 , 117, 3867-76	38
779	Trialkylsulfonium and tetraalkylammonium cations-based ionic liquid electrolytes for quasi-solid-state dye-sensitized solar cells. 2013 , 114, 303-308	28
778	Schiff base complexes of methyltrioxorhenium (VII): Synthesis and catalytic application. 2013 , 739, 63-68	10
777	Aggregation behavior and antimicrobial activity of ester-functionalized imidazolium- and pyridinium-based ionic liquids in aqueous solution. 2013 , 29, 2536-45	170
776	Anion effects on kinetics and thermodynamics of CO ₂ absorption in ionic liquids. 2013 , 117, 3398-406	58
775	The state of water in 1-butyl-1-methyl-pyrrolidinium bis(trifluoromethanesulfonyl)imide and its effect on Zn/Zn(II) redox behavior. 2013 , 97, 289-295	45
774	Molecular interactions in 1-butanol + IL solutions by measuring and modeling activity coefficients. 2013 , 117, 3173-85	37
773	Screening ionic liquids as candidates for separation of acid gases: Solubility of hydrogen sulfide, methane, and ethane. 2013 , 59, 2993-3005	58
772	Pressure and temperature effects on intermolecular vibrational dynamics of ionic liquids. 2013 , 138, 104503	29
771	Ionic liquid thermal stabilities: decomposition mechanisms and analysis tools. 2013 , 42, 5963-77	560
770	Assessment of Imidazole-Based Ionic Liquids as Dual-Mode Spacecraft Propellants. 2013 , 29, 339-351	31
769	Investigation on physical and electrochemical properties of three imidazolium based ionic liquids (1-hexyl-3-methylimidazolium tetrafluoroborate, 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl) imide and 1-butyl-3-methylimidazolium methylsulfate). 2013 , 177, 361-368	72
768	Transport and thermal properties of quaternary phosphonium ionic liquids and IoNanofluids. 2013 , 64, 80-92	81
767	Density and surface tension of pure ionic liquid 1-butyl-3-methyl-imidazolium l-lactate and its binary mixture with alcohol and water. 2013 , 64, 1-13	48
766	Insights on the solubility of CO ₂ in 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide from the microscopic point of view. 2013 , 47, 7421-9	55
765	Properties of New Asymmetrically Quaternized Dicationic Ammonium Based Room-Temperature Ionic Liquids with Ether Functionality. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1893-1908 ^{2.8}	9

764	Thermodynamic Properties of Ternary Mixtures Containing Ionic Liquids and Organic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1939-1954	2.8	12
763	Renewable feedstocks in green solvents: thermodynamic study on phase diagrams of D-sorbitol and xylitol with dicyanamide based ionic liquids. 2013 , 117, 7034-46		27
762	Thermophysical Properties of Nanoparticle-Enhanced Ionic Liquids (NEILs) Heat-Transfer Fluids. 2013 , 27, 3385-3393		54
761	Absorption of Carbon Dioxide in Two Binary Mixtures of Ionic Liquids. 2013 , 52, 5975-5984		91
760	Physicochemical Characterization of MFmEBased Ammonium Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1505-1515	2.8	22
759	Speed of Sound and Adiabatic Compressibility of 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide under Pressures up to 100 MPa. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1571-1576	2.8	36
758	Non-volatile polymer electrolyte based on poly(propylene carbonate), ionic liquid, and lithium perchlorate for electrochromic devices. 2013 , 117, 7783-9		97
757	Room temperature ionic liquid/ZIF-8 mixed-matrix membranes for natural gas sweetening and post-combustion CO ₂ capture. 2013 , 436, 221-231		146
756	Implementation of perturbed-chain statistical associating fluid theory (PC-SAFT), generalized (G)SAFT+cubic, and cubic-plus-association (CPA) for modeling thermophysical properties of selected 1-alkyl-3-methylimidazolium ionic liquids in a wide pressure range. 2013 , 117, 2223-32		32
755	Molecular Insights into Carbon Nanotube Supercapacitors: Capacitance Independent of Voltage and Temperature. 2013 , 117, 9178-9186		60
754	Densities and viscosities of imidazolium and pyridinium chloroaluminate ionic liquids. 2013 , 177, 85-93		43
753	Study of the solubility of CO ₂ , H ₂ S and their mixture in the ionic liquid 1-octyl-3-methylimidazolium hexafluorophosphate: Experimental and modelling. 2013 , 65, 220-232		100
752	Torrefaction of ionic-liquid impregnated lignocellulosic biomass and its comparison to dry torrefaction. 2013 , 103, 814-826		25
751	Topological investigations of binary mixtures containing ionic liquid 1-ethyl-3-methylimidazolium tetrafluoroborate and pyridine or isomeric picolines. 2013 , 56, 123-135		31
750	Procainium Acetate Versus Procainium Acetate Dihydrate: Irreversible Crystallization of a Room-Temperature Active Pharmaceutical-Ingredient Ionic Liquid upon Hydration. 2013 , 13, 3290-3293		12
749	Sweet-in-Green Systems Based on Sugars and Ionic Liquids: New Solubility Data and Thermodynamic Analysis. 2013 , 52, 18482-18491		20
748	Thermal Analysis and Heat Capacities of 1-Alkyl-3-methylimidazolium Ionic Liquids with NTf ₂ ⁻ TFO ⁻ and DCA ⁻ Anions. 2013 , 52, 2103-2110		59
747	Thermal Stability of Ionic Liquids for Their Application as New Absorbents. 2013 , 52, 15718-15727		89

746	Aging Effects on the Properties of Imidazolium-, Quaternary Ammonium-, Pyridinium-, and Pyrrolidinium-Based Ionic Liquids Used in Fuel and Energy Production. 2013 , 27, 6355-6361	17
745	Symmetrical and unsymmetrical Brønsted acidic ionic liquids for the effective conversion of fructose to 5-hydroxymethyl furfural. 2013 , 3, 469-474	50
744	Multiwall Carbon Nanotube Coated with Conducting Polyaniline Nanocomposites for Quasi-Solid-State Dye-Sensitized Solar Cells. 2013 , 2013, 1-5	3
743	Physico-chemical properties and phase behavior of the ionic liquid- β -cyclodextrin complexes. 2013 , 14, 16638-55	9
742	Physicochemical and Electrochemical Properties of Ionic Liquids Containing Aprotic Heterocyclic Anions Doped With Lithium Salts. 2013 , 160, A1604-A1610	30
741	Physicochemical and Electrochemical Properties of Novel Ionic Liquids Containing Aprotic Heterocyclic Anions Doped with Lithium Salts. 2013 , 50, 309-324	3
740	Crystal structures and phase-transition dynamics of cobaltocenium salts with bis(perfluoroalkylsulfonyl)amide anions: remarkable odd-even effect of the fluorocarbon chains in the anion. 2013 , 19, 6257-64	29
739	CO ₂ Capture in Ionic Liquids: A Review of Solubilities and Experimental Methods. 2013 , 2013, 1-16	135
738	Sulfonate Ionic Liquid as a Stable and Active Catalyst for Levoglucosenone Production from Saccharides via Catalytic Pyrolysis. 2013 , 3, 757-773	30
737	The Research on Glass Transition Temperature of Ionic Liquids Using DFT Method. 2013 , 791-793, 419-422	1
736	Thermophysical properties of energetic ionic liquids/nitric acid mixtures: insights from molecular dynamics simulations. 2013 , 139, 104503	8
735	Synthesis and Evaluation of Surface Active Properties of Ester-Based Cationic Imidazolium Monomeric Surfactants. 2013 , 34, 1488-1495	1
734	Ionic liquids for energy applications. 2013 , 38, 533-537	61
733	Synthesis and Structure of Ionic Liquids Containing the $[[Al(OC_6H_4CN)_4]^-]$ Anion. 2013 , 639, 754-764	6
732	Temperature-dependent surface-enrichment effects of imidazolium-based ionic liquids. 2013 , 14, 3726-30	13
731	Recombination of lophyl radicals in pyrrolidinium-based ionic liquids. 2013 , 14, 1899-908	24
730	Pharmaceutical Salts: Solids to Liquids by Using Ionic Liquid Design. 2013 ,	6
729	Orientation and Structure of Ionic Liquid Cation at Air/[bmim][BF ₄] Aqueous Solution Interface. 2013 , 26, 569-575	7

728	Unique Thermal Behaviors of Ionic Liquids. 2013 , 56, 47-53	
727	Towards the Equation of State for Neutral (C ₂ H ₄), Polar (H ₂ O), and Ionic ([bmim][BF ₄], [bmim][PF ₆], [pmmim][Tf ₂ N]) Liquids. 2014 , 2014, 1-15	1
726	Ionic Dynamics in [C ₄ mim]NTf ₂ in the Glassy and Liquid States: Results from ¹³ C and ¹ H NMR Spectroscopy. 2014 , 118, 14888-98	12
725	Effect of the Structures of Ionic Liquids on Their Physical Chemical Properties. 2014 , 141-174	4
724	Enhanced Electrical Conductivity of Imidazolium-Based Ionic Liquids Mixed with Carbon Nanotubes: A Spectroscopic Study. 2014 , 161, H481-H486	20
723	Alkyl substituent effect on density, viscosity and chemical behavior of 1-alkyl-3-methylimidazolium chloride. 2014 , 20, 2392	9
722	Properties and Green Aspects of Ionic Liquids. 2014 , 1-93	1
721	Effect of cationic head group on micellization behavior of new amide-functionalized surface active ionic liquids. 2014 , 16, 26040-50	45
720	Simultaneous measurement of speed of sound, thermal diffusivity, and bulk viscosity of 1-ethyl-3-methylimidazolium-based ionic liquids using laser-induced gratings. 2014 , 118, 14493-501	15
719	Thiazolium-Containing Poly(ionic liquid)s and Ionic Polymers. 2014 , 342, 67-77	7
718	Slow solvation in ionic liquids: connections to non-Gaussian moves and multi-point correlations. 2014 , 141, 104501	47
717	Poly(ethylene glycol)-based ionic liquids: properties and uses as alternative solvents in organic synthesis and catalysis. 2014 , 7, 45-65	43
716	Structures and Thermodynamic Properties of Ionic Liquids. 2014 , 107-139	8
715	Structure, Interaction and Hydrogen Bond. 2014 , 1-38	6
714	A capillary gas chromatographic analysis of the characteristics of ionic liquid films. 2014 , 55, 980-985	3
713	Composite ionic liquid and polymer membranes for gas separation at elevated temperatures. 2014 , 450, 407-417	89
712	Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide+propylene carbonate binary mixtures. 2014 , 68, 98-108	86
711	Synthesis, characterization and surface properties of N-(2-hydroxyalkyl)-N'-(2-hydroxyethyl)imidazolium surfactants. 2014 , 441, 233-241	62

710	Sugars and sugar derivatives in ionic liquid media obtained from lignocellulosic biomass: Comparison of capillary electrophoresis and chromatographic analysis. 2014 , 223, 18-24	22
709	Self-assembly, DNA binding and cytotoxicity trends of ether functionalized gemini pyridinium amphiphiles. 2014 , 417, 385-95	29
708	Crosslinked imidazolium-containing polyester networks containing a pendant imidazolium group: Swelling studies and thermal properties. 2014 , 55, 3320-3329	20
707	Ionic liquid based electrolytes for sodium-ion batteries: Na ⁺ solvation and ionic conductivity. 2014 , 245, 630-636	209
706	Thermal stabilities and decomposition mechanism of amino- and hydroxyl-functionalized ionic liquids. 2014 , 578, 59-67	42
705	Equations of states for an ionic liquid under high pressure: A molecular dynamics simulation study. 2014 , 74, 39-42	10
704	Evaluation of ionic liquids as absorbents for ammonia absorption refrigeration cycles using COSMO-based process simulations. 2014 , 123, 281-291	78
703	Ionic Liquids Confined in a Realistic Activated Carbon Model: A Molecular Simulation Study. 2014 , 118, 1540-1553	40
702	Strategies for Improving the Catalytic Performance of an Enzyme in Ionic Liquids. 2014 , 57, 923-934	22
701	Cationic Imidazolium Monomeric Surfactants: Their Synthesis and Surface Active Properties. 2014 , 17, 269-277	23
700	Synthesis, micellization properties, and cytotoxicity trends of N-hydroxyethyl-3-alkyloxypyridinium surfactants. 2014 , 292, 467-476	7
699	A synergistic effect of microwave/ultrasound and symmetrical acidic ionic liquids on transesterification of vegetable oils with high free fatty acid. 2014 , 4, 301-309	5
698	Borohydride ionic liquids and borane/ionic-liquid solutions as hypergolic fuels with superior low ignition-delay times. 2014 , 53, 2969-72	85
697	Synthesis of hydrogels by polymerization of itaconic acid in choline chloride deep eutectic solvent. 2014 , 131, n/a-n/a	27
696	Interactions between ionic liquids and radicals. 2014 , 192, 153-170	26
695	Physicochemical properties of low viscous lactam based ionic liquids. 2014 , 74, 255-262	67
694	Cyanoborohydride-based ionic liquids as green aerospace bipropellant fuels. 2014 , 20, 6909-14	76
693	Molecular Dynamics Simulation for the Binary Mixtures of High Pressure Carbon Dioxide and Ionic Liquids. 2014 , 22, 153-163	7

692	Electrodeposition of Zinc from Zinc Oxide Using Urea and Choline Chloride Mixture: Effect of (BMIM)HSO ₄ , Temperature, Voltage on Current Efficiency, Energy Consumption, and Surface Morphology. 2014 , 21-26		1
691	Density, excess properties, electrical conductivity and viscosity of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide+Butyrolactone binary mixtures. 2014 , 76, 161-171		56
690	Activity coefficients at infinite dilution of organic solutes in the ionic liquid 1-butyl-3-methylimidazolium methyl sulfate. 2014 , 77, 7-13		23
689	Comprehensive Investigation on the Thermal Stability of 66 Ionic Liquids by Thermogravimetric Analysis. 2014 , 53, 8651-8664		414
688	Physicochemical Properties for the Binary Systems of Ionic Liquids [C _n mim]Cl + N,N-Dimethylformamide. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1411-1422	2.8	25
687	Volumetric, Acoustic and Refractive Index for the Binary System (Butyric acid + Hexanoic acid) at Different Temperatures. 2014 , 43, 787-803		19
686	Density and viscosity of three (2,2,2-trifluoroethanol+1-butyl-3-methylimidazolium) ionic liquid binary systems. 2014 , 70, 101-110		80
685	Ionic conductivity enhancement of sputtered gold nanoparticle-in-ionic liquid electrolytes. 2014 , 2, 792-803		17
684	Two highly stable and selective solid phase microextraction fibers coated with crown ether functionalized ionic liquids by different sol-gel reaction approaches. 2014 , 806, 152-64		28
683	Thermodynamic properties and thermal stability of ionic liquid-based nanofluids containing graphene as advanced heat transfer fluids for medium-to-high-temperature applications. 2014 , 63, 519-523		159
682	A Group Contribution Method for the Correlation of Static Dielectric Constant of Ionic Liquids. 2014 , 22, 79-88		12
681	Vaporisation and thermal decomposition of dialkylimidazolium halide ion ionic liquids. 2014 , 16, 1339-53		38
680	Densification of Ionic Liquid Molecules within a Hierarchical Nanoporous Carbon Structure Revealed by Small-Angle Scattering and Molecular Dynamics Simulation. 2014 , 26, 1144-1153		47
679	Unusual trend of viscosities and densities for four ionic liquids containing a tetraalkyl phosphonium cation and the anion bis(2,4,4-trimethylpentyl) phosphinate. 2014 , 70, 122-126		11
678	The Phase Behaviour of 1-Alkyl-3-Methylimidazolium Ionic Liquids. 2014 , 59-85		
677	Mechano-chemical synthesis of nanostructured FePO ₄ /MWCNTs composites as cathode materials for lithium-ion batteries. 2014 , 2, 19536-19541		16
676	Halogen-free pyrrolidinium bis(mandelato)borate ionic liquids: some physicochemical properties and lubrication performance as additives to polyethylene glycol. 2014 , 4, 30617-30623		43
675	Probing molecular interaction in ionic liquids by low frequency spectroscopy: Coulomb energy, hydrogen bonding and dispersion forces. 2014 , 16, 21903-29		172

- 674 Novel Ether-Functionalized Pyridinium Chloride Ionic Liquids for Efficient SO₂ Capture. **2014**, 53, 16832-16839 71
- 673 An electrochemical in situ study of freezing and thawing of ionic liquids in carbon nanopores. **2014**, 16, 21219-24 24
- 672 Analysis of the heterogeneous dynamics of imidazolium-based [Tf₂N]⁺ ionic liquids using molecular simulation. **2014**, 112, 2694-2706 13
- 671 Free volume model for the unexpected effect of C₂-methylation on the properties of imidazolium ionic liquids. **2014**, 118, 2712-8 42
- 670 Synthesis and bio-physicochemical properties of amide-functionalized N-methylpiperazinium surfactants. **2014**, 436, 122-31 21
- 669 Novel scrubbing system for post-combustion CO₂ capture and recovery: Experimental studies. **2014**, 471, 16-26 37
- 668 Radiation induced physicochemical changes in FAP (fluoro alkyl phosphate) based imidazolium ionic liquids and their mechanistic pathways: influence of hydroxyl group functionalization of the cation. **2014**, 43, 609-25 15
- 667 Preparation and characterisation of high-density ionic liquids incorporating halobismuthate anions. **2014**, 43, 10910-9 16
- 666 Vapor-Liquid Phase Equilibria and Excess Thermal Properties of Binary Mixtures of Ethylsulfate-Based Ionic Liquids with Water: New Experimental Data, Correlations, and Predictions. **2014**, 53, 18316-18325 25
- 665 The effects of counterion composition on the rheological and conductive properties of mono- and diphosphonium ionic liquids. **2014**, 16, 20608-17 13
- 664 Targeting adequate thermal stability and fire safety in selecting ionic liquid-based electrolytes for energy storage. **2014**, 16, 1967-76 62
- 663 Vaporization of the prototypical ionic liquid BMImNTf₂ under equilibrium conditions: a multitechnique study. **2014**, 16, 15653-61 24
- 662 Probing liquid behaviour by helium atom scattering: surface structure and phase transitions of an ionic liquid on Au(111). **2014**, 5, 667-676 11
- 661 Li(glycine)(CF₃SO₃) as an effective and recoverable catalyst for the preparation of 3,4-dihydropyrimidine-2-(1H)-one under solvent-free conditions. **2014**, 4, 54854-54863 12
- 660 Crystal Growth, Structure, and Polymorphic Behavior of an Ionic Liquid: Phthalate Derivative of N-Butyl,N-methylimidazolium Hexafluorophosphate. **2014**, 26, 4151-4162 10
- 659 Effective Production of Levulinic Acid from Biomass through Pretreatment Using Phosphoric Acid, Hydrochloric Acid, or Ionic Liquid. **2014**, 53, 11611-11621 45
- 658 Self-Assembly and Thermal Stability of Ether-Functionalized Imidazolium Ionic Liquids. **2014**, 53, 13247-13255 10
- 657 Determination of trace level genotoxic impurities in small molecule drug substances using conventional headspace gas chromatography with contemporary ionic liquid diluents and electron capture detection. **2014**, 1361, 217-28 34

656	Composite ionic liquid/polymer catalyst membranes for reactive separation of hydrogen from carbon monoxide. 2014 , 472, 222-231		8
655	Saturation properties of 1-alkyl-3-methylimidazolium based ionic liquids. 2014 , 118, 8734-43		24
654	Physicochemical Investigation of Adiponitrile-Based Electrolytes for Electrical Double Layer Capacitor. 2014 , 118, 14107-14123		39
653	Effect of temperature on density, sound velocity, refractive index and their derived properties for the binary systems (heptanoic acid + propanoic or butanoic acids). 2014 , 78, 7-15		27
652	Ionic liquid binary mixtures: Promising reaction media for carbohydrate conversion into 5-hydroxymethylfurfural. 2014 , 482, 287-293		37
651	Conformational isomerism influence on the properties of piperazinium bis(trifluoromethylsulfonyl)imide. 2014 , 118, 9085-95		9
650	Apparent Molar Volumes and Expansivities of Ionic Liquids Based on N-Alkyl-N-methylmorpholinium Cations in Acetonitrile. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 718-725	2.8	25
649	The influence of a hierarchical porous carbon network on the coherent dynamics of a nanoconfined room temperature ionic liquid: A neutron spin echo and atomistic simulation investigation. 2014 , 78, 415-427		21
648	Excess heat capacities of (binary+ternary) mixtures containing [emim][BF ₄] and organic liquids. 2014 , 79, 19-32		3
647	Ion jelly conductive properties using dicyanamide-based ionic liquids. 2014 , 118, 9445-59		17
646	Sum frequency generation spectroscopy study of an ionic liquid at a graphene-BaF ₂ (111) interface. 2014 , 118, 5203-10		23
645	Molecular Dynamics Simulations of the Ionic Liquid 1-n-Butyl-3-Methylimidazolium Chloride and Its Binary Mixtures with Ethanol. 2014 , 10, 4465-79		45
644	Self-assembly and antimicrobial activity of long-chain amide-functionalized ionic liquids in aqueous solution. 2014 , 123, 318-25		70
643	Molecular Dynamics and ab Initio Studies of the Effects of Substituent Groups on the Thermodynamic Properties and Structure of Four Selected Imidazolium-Based [Tf ₂ N] Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2834-2849	2.8	19
642	Nanostructure-thermal conductivity relationships in protic ionic liquids. 2014 , 118, 12017-24		23
641	Thermophysical Properties of Imidazolium-Based Ionic Liquids: The Effect of Aliphatic versus Aromatic Functionality. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2717-2724	2.8	52
640	Measurement and Prediction of the Thermal Conductivity of Tricyanomethanide- and Tetracyanoborate-Based Imidazolium Ionic Liquids. 2014 , 35, 195-217		37
639	Physicochemical Study of n-Ethylpyridinium bis(trifluoromethylsulfonyl)imide Ionic Liquid. 2014 , 43, 696-710		29

- 638 Task-specific ionic liquid tetraalkylammonium hydrogen phthalate as an extractant for U(VI) extraction from aqueous media. **2014**, 300, 853-858 26
- 637 The impact of imidazolium ionic liquids on the properties of nitrile rubber composites. **2014**, 53, 139-146 25
- 636 Ionic liquids confined in porous matrices: Physicochemical properties and applications. **2014**, 64, 73-120 218
- 635 Thermodynamic Modeling and Assessment of Ionic Liquid-Based CO₂ Capture Processes. **2014**, 53, 11805-11818 33
- 634 Apparent Molar Volumes of 1-Alkyl (n = 2, 4, 6)-3-methylimidazolium Bromides in a Mixed-Solvent Medium of Acetonitrile + Water at Temperatures of (293.15, 303.15, and 313.15) K. *Journal of Chemical & Engineering Data*, **2014**, 59, 1086-1093 2.8 3
- 633 Ionic liquid-based solid phase microextraction necklaces for the environmental monitoring of ketamine. **2014**, 1331, 1-9 31
- 632 Densities and Viscosities of Binary Mixtures Containing 1,3-Dimethylimidazolium Dimethylphosphate and Alcohols. *Journal of Chemical & Engineering Data*, **2014**, 59, 2377-2388 2.8 41
- 631 Synthesis and Characterization of Functionalized Ionic Liquids for Thermal Storage. **2014**, 28, 2802-2810 31
- 630 Physical and Thermophysical Properties of 1-Hexyl-1,4-diaza[2.2.2]bicyclooctanium Bis(trifluoromethylsulfonyl)imide Ionic Liquid. *Journal of Chemical & Engineering Data*, **2014**, 59, 585-591 2.8 6
- 629 Gemini Pyridinium Surfactants: Synthesis and Their Surface Active Properties. **2014**, 17, 929-935 24
- 628 Evaluating Ionic Liquids as Hypergolic Fuels: Exploring Reactivity from Molecular Structure. **2014**, 28, 3460-3473 63
- 627 Ship in a bottle synthesis of ionic liquids in NaY supercages for CO₂ capture. **2014**, 4, 12756 19
- 626 Thermophysical Properties of Imidazolium-Functionalized Binols and Their Application in Asymmetric Catalysis. **2014**, 33, 3328-3340 7
- 625 Viscoelastic, Surface, and Volumetric Properties of Ionic Liquids [BMIM][O₂CSO₄], [BMIM][PF₆], and [EMIM][MeSO₃]. *Journal of Chemical & Engineering Data*, **2014**, 59, 2349-2359 2.8 38
- 624 Chemically tunable ionic liquids with aprotic heterocyclic anion (AHA) for CO₂ capture. **2014**, 118, 5740-51 176
- 623 Volumetric behavior of two pyridinium-based ionic liquids. **2014**, 382, 59-64 6
- 622 Synthesis, Characterization, and Surface Properties of Cationic Gemini Surfactants. **2014**, 35, 1528-1536 5
- 621 Physicochemical and thermal properties for a series of 1-alkyl-4-methyl-1,2,4-triazolium bis(trifluoromethylsulfonyl)imide ionic liquids. **2014**, 118, 9944-51 22

620	Effect of a room-temperature ionic liquid on the structure and properties of electrospun poly(vinylidene fluoride) nanofibers. 2014 , 6, 4447-57		85
619	Buoyancy driven heat transfer behavior of [C4mim][NTf2] ionic liquid: An experimental study. 2014 , 66, 534-540		16
618	Synthesis, surface active and thermal properties of novel imidazolium cationic monomeric surfactants. 2014 , 20, 4267-4275		25
617	Measurements and group contribution analysis of 0.1MPa densities for still poorly studied ionic liquids with the [PF6] and [NTf2] anions. 2014 , 77, 31-39		23
616	Structure-property relationships in transport and thermodynamic properties of imidazolium bistriflamide ionic liquids for CO2 capture. 2014 , 250, 377-389		29
615	Redox chemistry, solubility, and surface distribution of Pt(II) and Pt(IV) complexes dissolved in ionic liquids. 2014 , 192, 103-113		16
614	Long-term thermal stability of some 1-butyl-1-methylpyrrolidinium ionic liquids. 2014 , 74, 51-57		40
613	(Solid + liquid) and (liquid + liquid) phase equilibria of (IL + water) binary systems. The influence of the ionic liquid structure on mutual solubility. 2014 , 361, 273-281		37
612	Study on the thermodynamic properties of ether-functionalized imidazolium-based ionic liquids. 2014 , 196, 314-318		15
611	Experimental and theoretical excess molar properties of imidazolium based ionic liquids with molecular organic solvents II. 1-Hexyl-3-methylimidazolium tetrafluoroborate and 1-octyl-3-methylimidazolium tetrafluoroborate with cyclic ethers. 2014 , 71, 236-248		38
610	Electron density analysis of 1-butyl-3-methylimidazolium chloride ionic liquid. 2014 , 20, 2175		25
609	New insights into thermal conduction mechanisms of multi-walled carbon nanotube/ionic liquid suspensions. 2014 , 83, 89-95		12
608	Excess Heat Capacities of Binary and Ternary Mixtures Containing 1-Ethyl-3-methylimidazolium Tetrafluoroborate and Anilines. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1852-1864	2.8	21
607	Synthesis, Characterization and Evaluation of the Surface Active Properties of Novel Cationic Imidazolium Gemini Surfactants. 2014 , 17, 253-260		30
606	Borohydride Ionic Liquids and Borane/Ionic-Liquid Solutions as Hypergolic Fuels with Superior Low Ignition-Delay Times. 2014 , 126, 3013-3016		20
605	Unusual Anions as Ionic Liquid Constituents. 2015 , 39-54		
604	The configuration exchanging theory for transport properties and glass formation temperature of ionic liquids. 2015 , 143, 204501		3
603	Features of velocity-cross-correlations in ionic liquids. 2015 , 212, 775-784		2

602	Ionic-Liquid-Gel Surfaces Showing Easy-Sliding and Ultradurable Features. 2015 , 2, 1500177		29
601	Enhanced gravimetric CO ₂ capacity and viscosity for ionic liquids with cyanopyrrolide anion. 2015 , 61, 2280-2285		32
600	Liquid-liquid phase split in ionic liquid + toluene mixtures induced by CO ₂ . 2015 , 61, 2968-2976		8
599	Evaporation and Decomposition Behavior of Pure and Supported Ionic Liquids under Thermal Stress. 2015 , 87, 791-802		35
598	Preparation of Polymeric Membranes and Microcapsules Using an Ionic Liquid as Morphology Control Additive. 2015 , 357, 159-167		17
597	Thermal Behaviour of Pure Ionic Liquids. 2015 ,		7
596	THERMOPHYSICAL PROPERTIES OF 1-BUTYL-3-METHYLIMIDAZOLIUM BIS(TRIFLUOROMETHYLSULFONYL)IMIDE AT HIGH TEMPERATURES AND PRESSURES. 2015 , 32, 303-316		33
595	Predicting critical temperatures of ionic and non-ionic fluids from thermophysical data obtained near the melting point. 2015 , 143, 144503		9
594	Lubrication Performance of Ionic Liquids as Lubricants for Space Mechanisms under High Vacuum and Low Temperature. 2015 , 10, 138-146		7
593	Scaling Model of Low-Temperature Transport Properties for Molecular and Ionic Liquids. 2015 , 2015, 1-11		1
592	ESR studies on the pressure and temperature dependence of electron self-exchange kinetics between tetrathiafulvalene (TTF) and its radical cation in ionic liquids and organic solvents. 2015 , 113, 1378-1385		4
591	Mechanism of bismuth telluride exfoliation in an ionic liquid solvent. 2015 , 31, 3644-52		33
590	Effect of Temperature, Anion, and Alkyl Chain Length on the Density and Refractive Index of 1-Alkyl-3-methylimidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1986-1996	2.8	94
589	Biodegradable Ionic Liquids: Effects of Temperature, Alkyl Side-Chain Length, and Anion on the Thermodynamic Properties and Interaction Energies As Determined by Molecular Dynamics Simulations Coupled with ab Initio Calculations. 2015 , 54, 11678-11700		12
588	Effect of Structure on Transport Properties (Viscosity, Ionic Conductivity, and Self-Diffusion Coefficient) of Aprotic Heterocyclic Anion (AHA) Room-Temperature Ionic Liquids. 1. Variation of Anionic Species. 2015 , 119, 15030-9		34
587	Efficient absorption of ammonia with hydroxyl-functionalized ionic liquids. 2015 , 5, 81362-81370		86
586	Effect of water on the local structure and phase behavior of imidazolium-based protic ionic liquids. 2015 , 119, 1611-22		49
585	Aggregation behavior of non-cytotoxic ester functionalized morpholinium based ionic liquids in aqueous media. 2015 , 446, 263-71		34

584	A combined numerical and experimental study on graphene/ionic liquid nanofluid based direct absorption solar collector. 2015 , 136, 177-186		146
583	Very fast catalytic reduction of 4-nitrophenol, methylene blue and eosin Y in natural waters using green chemistry: p(tannic acid)/Cu ionic liquid composites. 2015 , 5, 18183-18195		50
582	Ionic fluids containing both strongly and weakly interacting ions of the same charge have unique ionic and chemical environments as a function of ion concentration. 2015 , 16, 993-1002		22
581	Thermal Stability and Vapor-Liquid Equilibrium for Imidazolium Ionic Liquids as Alternative Reaction Media. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 836-844	2.8	14
580	Conceptual design of unit operations to separate aromatic hydrocarbons from naphtha using ionic liquids. COSMO-based process simulations with multi-component real-mixture feed. 2015 , 94, 632-647		49
579	Density, Speed of Sound, Viscosity, and Excess Properties of Binary Mixtures Formed by Ethanol and Bis(trifluorosulfonyl)imide-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 525-540	2.8	67
578	Electrical conductivities for four ternary electrolyte aqueous solutions with one or two ionic liquid components at ambient temperatures and pressure. 2015 , 23, 873-879		2
577	Thermodynamic properties of PEG-based functionalized imidazolium toluenesulfonate ionic liquids. 2015 , 204, 39-43		5
576	Thermal stability and specific heats of {[bpy][BF4] + [bpy][Tf2N]} and {[bpy][BF4] + [4bmpy][Tf2N]} mixed ionic liquid solvents. 2015 , 119, 1235-1243		11
575	A simple group contribution correlation for the prediction of ionic liquid heat capacities at different temperatures. 2015 , 403, 95-103		40
574	Effect of imidazolium phosphate and multiwalled carbon nanotubes on thermal stability and flame retardancy of polylactide. 2015 , 77, 147-153		47
573	Volumetric properties of 1-butyl-3-methylimidazolium bromide in aqueous solutions of d(β)-ribose and d(β)-arabinose at different temperatures. 2015 , 209, 352-357		20
572	Ionic liquid based lithium battery electrolytes: fundamental benefits of utilising both TFSI and FSI anions?. 2015 , 17, 19569-81		117
571	Nanostructural Reorganization Manifests in Sui-Generis Density Trend of Imidazolium Acetate/Water Binary Mixtures. 2015 , 119, 10911-20		28
570	CO2 Adsorption on Ionic Liquid-Modified Cu-BTC: Experimental and Simulation Study. 2015 , 33, 223-242		25
569	Conductive films based on composite polymers containing ionic liquids absorbed on crosslinked polymeric ionic-like liquids (SILLPs). 2015 , 72, 69-81		24
568	High-pressure phase behavior of 1-ethyl-3-methylimidazolium tetrafluoroborate and carbon dioxide system. 2015 , 5, 32416-32420		6
567	Microporous Ceramic Tubule Based and Dendrimer-Facilitated Immobilized Ionic Liquid Membrane for CO2 Separation. 2015 , 54, 10401-10418		12

- 566 Thermal decomposition mechanisms of the ionic liquids based on amino acid anion and N7,N9-dimethyladeninium cation: Quantum chemistry approach. **2015**, 209, 779-784 7
- 565 Volumetric properties of imidazolium-based ionic liquids using Song and Mason equation of state. **2015**, 209, 657-661 6
- 564 Dye-sensitized solar cells containing mesoporous TiO₂ spheres as photoanodes and methyl sulfate anion based biionic liquid electrolytes. **2015**, 3, 6383-6391 14
- 563 Combined effect of ether and siloxane substituents on imidazolium ionic liquids. **2015**, 5, 64821-64831 13
- 562 The effect of counteranion on the physicochemical and thermal properties of 4-methyl-1-propyl-1,2,4-triazolium ionic liquids. **2015**, 210, 286-292 18
- 561 Group Contribution Methods for Estimation of Ionic Liquid Heat Capacities: Critical Evaluation and Extension. **2015**, 38, 632-644 20
- 560 Composition and Temperature Dependence of Excess Properties of Binary Mixtures of Imidazolium Based Ionic Liquids: II ([C_nmim][PF₆]) + Propylamine. **2015**, 44, 718-741 17
- 559 Thermal Properties of Alkyl-triethylammonium bis(trifluoromethyl)sulfonylimide Ionic Liquids. **2015**, 44, 790-810 23
- 558 Irreversible structural change of a dry ionic liquid under nanoconfinement. **2015**, 17, 13613-24 47
- 557 Solubility and Diffusivity of CO₂ in the Ionic Liquid 1-Butyl-3-methylimidazolium Tricyanomethanide within a Large Pressure Range (0.01 MPa to 10 MPa). *Journal of Chemical & Engineering Data*, **2015**, 60, 1544-1562 2.8 56
- 556 Phase diagrams of binary systems containing tricyanomethanide-based ionic liquids and thiophene or pyridine: New experimental data and PC-SAFT modelling. **2015**, 399, 105-114 19
- 555 Investigation on thermophysical and excess properties of binary mixtures of imidazolium based ionic liquids at temperatures (293.15 to 323.15) K: III [C_nmim][PF₆] (n = 4, 6, 8) + THF. **2015**, 86, 143-153 25
- 554 Volumetric Properties of Disaccharides in Aqueous Solutions of Benzyltrimethylammonium Acetate as a Function of Temperature. *Journal of Chemical & Engineering Data*, **2015**, 60, 1764-1775 2.8 8
- 553 Influence of anion and cation on the vapor pressure of binary mixtures of water+ionic liquid and on the thermal stability of the ionic liquid. **2015**, 394, 29-37 36
- 552 Evaluation of Thermophysical Properties of Imidazolium-Based Phenolate Ionic Liquids. **2015**, 54, 3697-3705 25
- 551 The Use of Cooling Crystallization in an Ionic Liquid System for the Purification of Pharmaceuticals. **2015**, 15, 4946-4951 31
- 550 Effect of Cation on Physical Properties and CO₂ Solubility for Phosphonium-Based Ionic Liquids with 2-Cyanopyrrolide Anions. **2015**, 119, 11807-14 73
- 549 Bis-imidazolium and benzimidazolium based gemini-type ionic liquids structure: synthesis and antibacterial evaluation. **2015**, 5, 92602-92617 17

548	Polymer-ionic liquid ternary systems for Li-battery electrolytes: Molecular dynamics studies of LiTFSI in a EMIm-TFSI and PEO blend. 2015 , 143, 024904	61
547	Corrosion inhibition of mild steel by an imidazolium ionic liquid compound: the effect of pH and surface pre-corrosion. 2015 , 5, 95160-95170	25
546	Improved Mechanical Properties of Montmorillonite/Nylon 6 Nanocomposites by the Modification of Novolac. 2015 , 52, 1009-1016	6
545	Branched isomeric 1,2,3-triazolium-based ionic liquids: new insight into structure-property relationships. 2015 , 17, 29834-43	15
544	Liquid range temperature of ionic liquids as potential working fluids for absorption heat pumps. 2015 , 91, 127-135	34
543	Concentrating Solar Power. 2015 , 115, 12797-838	298
542	Synthesis and thermal characterization of new ammonium-imidazolium dual dicyanamide-based ionic liquids. 2015 , 211, 831-838	18
541	Non-haloaluminate ionic liquids for low-temperature electrodeposition of rare-earth metals: a review. 2015 , 33, 1017-1025	19
540	Chiral separation of α -cyclohexylmandelic acid enantiomers using ionic liquid/salt aqueous two-phase system. 2015 , 69,	6
539	Phase Transitions of Triflate-Based Ionic Liquids under High Pressure. 2015 , 119, 14315-22	16
538	Imidazolium based energetic ionic liquids for monopropellant applications: a theoretical study. 2015 , 5, 71896-71902	18
537	Effect of dielectric constant on estimation of properties of ionic liquids: an analysis of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. 2015 , 5, 72709-72715	6
536	Long-term thermal stabilities of ammonium ionic liquids designed as potential absorbents of ammonia. 2015 , 5, 41278-41284	14
535	Ionic liquids as heat transfer fluids: comparison with known systems, possible applications, advantages and disadvantages. 2015 , 84, 875-890	63
534	Anion and cation dynamics of sulfonamide-based ionic liquids and the solid-liquid transitions. 2015 , 17, 8750-7	7
533	Characterization of a New Ionic Liquid and Its Use for CO ₂ Capture from Ambient Air: Studies on Solutions of Diethylenetriamine (DETA) and [DETAH] ⁺ NO ₃ ⁻ in Polyethylene Glycol. 2015 , 54, 8829-8841	9
532	Highly Selective Capture of CO ₂ by Ether-Functionalized Pyridinium Ionic Liquids with Low Viscosity. 2015 , 29, 6039-6048	57
531	Divergent trend in density versus viscosity of ionic liquid/water mixtures: a molecular view from guanidinium ionic liquids. 2015 , 17, 25037-48	25

530	Phase Behavior of a Piperidinium-Based Room-Temperature Ionic Liquid Exhibiting Scanning Rate Dependence. 2015 , 119, 12552-60	21
529	Molecular Simulations of Anion and Temperature Dependence on Structure and Dynamics of 1-Hexyl-3-methylimidazolium Ionic Liquids. 2015 , 119, 14800-6	26
528	Click chemistry mediated synthesis of bio-inspired phosphonyl-functionalized ionic liquids. 2015 , 17, 1259-1268	9
527	Surface of room temperature ionic liquid [bmim][PF6] studied by polarization- and experimental configuration-dependent sum frequency generation vibrational spectroscopy. 2015 , 58, 439-447	10
526	Ionic liquids as viscosity modifiers for heavy and extra-heavy crude oils. 2015 , 143, 519-526	64
525	Effects of alkyl group and temperature on the interactions between furfural and alcohol: Insight from density and sound velocity studies. 2015 , 599, 13-22	29
524	A physicochemical investigation of ionic liquid mixtures. 2015 , 6, 1101-1114	140
523	Preparation of fusion materials based on ionic liquids and cationic gold nanoparticles. 2015 , 47, 171-176	8
522	Pyridinium based dicationic ionic liquids as base lubricants or lubricant additives. 2015 , 82, 245-254	62
521	Ship-in-a-bottle synthesis of amine-functionalized ionic liquids in NaY zeolite for CO ₂ capture. 2014 , 4, 5997	39
520	Extraction, Preconcentration and Isolation of Flavonoids from <i>Apocynum venetum</i> L. Leaves Using Ionic Liquid-Based Ultrasonic-Assisted Extraction Coupled with an Aqueous Biphasic System. 2016 , 21, 262	28
519	Tunable Aryl Alkyl Ionic Liquids with Weakly Coordinating Tetrakis((1,1,1,3,3,3-hexafluoropropan-2-yl)oxy)borate [B(hfip) ₄] Anions. 2016 , 22, 10044-9	13
518	Nanostructuring Effect on the Thermal Behavior of Ionic Liquids. 2016 , 17, 1512-7	22
517	Phase Transitions, Decomposition Temperatures, Viscosities, and Densities of Phosphonium, Ammonium, and Imidazolium Ionic Liquids with Aprotic Heterocyclic Anions. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2897-2914	2.8 30
516	Hydrophobic protic ionic liquids tethered with tertiary amine group for highly efficient and selective absorption of H ₂ S from CO ₂ . 2016 , 62, 4480-4490	77
515	Thermal and kinetic analysis of pure and contaminated ionic liquid: 1-butyl-2,3-dimethylimidazolium chloride (BDMIMCl). 2016 , 18, 122-125	4
514	The selectivity of imidazolium-based ionic liquids with different anions to BTX aromatics in hexane at 298.15 K and atmospheric pressure. 2016 , 33, 2982-2989	7
513	Corresponding-states behavior of an ionic model fluid with variable dispersion interactions. 2016 , 144, 234502	3

512	Thermal stability of imidazolium-based ionic liquids investigated by TG and FTIR techniques. 2016 , 125, 143-154	57
511	PVT properties of imidazolium-, phosphonium-, pyridinium- and pyrrolidinium-based ionic liquids using critical point constants. 2016 , 1-8	
510	Novel phosphorus-containing halogen-free ionic liquids: effect of sulfonate anion size on physical properties, biocompatibility, and flame retardancy. 2016 , 6, 52485-52494	16
509	The Effect of vs. Isomerization on the Thermophysical Properties of Aromatic and Non-aromatic Ionic Liquids. 2016 , 423, 190-202	22
508	Phase behavior and heat capacities of the 1-benzyl-3-methylimidazolium ionic liquids. 2016 , 100, 124-130	23
507	Molecular thermodynamic modeling of ionic liquids using the perturbation-based linear Yukawa isotherm regularity. 2016 , 28, 235101	6
506	Room Temperature Ionic Liquids. 2016 , 123-220	3
505	Prediction of densities of pure ionic liquids using Esmaeilzadeh-Roshanfekar equation of state and critical properties from group contribution method. 2016 , 423, 101-108	8
504	Separation of aromatics from n-alkanes using tricyanomethanide-based ionic liquids: Liquid-liquid extraction, vapor-liquid separation, and thermophysical characterization. 2016 , 223, 880-889	41
503	Membrane absorption using ionic liquid for pre-combustion CO ₂ capture at elevated pressure and temperature. 2016 , 54, 59-69	39
502	Theoretical investigation of the thermal decomposition of imidazolium ionic liquids with different halides ions. 2016 , 224, 460-465	5
501	Surface- and Redox-Active Multifunctional Polyphenol-Derived Poly(ionic liquid)s: Controlled Synthesis and Characterization. 2016 , 49, 7676-7691	36
500	Hydrothermal syntheses of CuO, CuO/Cu ₂ O, Cu ₂ O, Cu ₂ O/Cu and Cu microcrystals using ionic liquids. 2016 , 32, 530-533	6
499	Thermophysical characterization of 1-ethylpyridinium triflate and comparison with similar ionic liquids. 2016 , 103, 395-402	11
498	Impact of water on the charge transport of a glass-forming ionic liquid. 2016 , 223, 635-642	14
497	Single-phase Fe ₂ O ₃ nanoparticles synthesized by green ionothermal method and their magnetic characterization. 2016 , 42, 16813-16816	19
496	Measurement and correlation for the thermophysical properties of hydroxyethyl ammonium based protic ionic liquids: Effect of temperature and alkyl chain length on anion. 2016 , 427, 282-290	12
495	Isothermal Titration Calorimetric Study of Ionic Liquid Solutions in Alcohols at Extreme Dilutions: An Investigation of Ion-Solvent Interactions. 2016 , 45, 1313-1331	2

494	Introduction to Ionic Liquids. 2016 , 1-27		2
493	Solubility Data as a Response for a Challenge for Formulation Chemists: Imidazolium-Based Ionic Liquids and Antitubercular Antibiotic Medicines. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3116-3126	2.8	11
492	Studies of Volumetric and Transport Properties of Ionic Liquid/Water Mixtures and Its Viability To Be Used in Absorption Systems. 2016 , 4, 5068-5077		11
491	Novel diol functionalized dicationic ionic liquids: synthesis, characterization and DFT calculations on H-bonding influence on thermophysical properties. 2016 , 6, 78636-78647		17
490	Quantitative structure-property relationship modelling of thermal decomposition temperatures of ionic liquids. 2016 , 223, 60-67		24
489	Enhanced low-temperature ionic conductivity via different Li solvated clusters in organic solvent/ionic liquid mixed electrolytes. 2016 , 18, 25458-25464		21
488	High-Performance Polymers for Membrane CO /N Separation. 2016 , 22, 15980-15990		84
487	Syntheses and Physical Properties of Novel Betainium-type Ionic Liquids Derived from Amino Acids. 2016 , 45, 164-166		4
486	Wettability on Inner and Outer Surface of Single Carbon Nanotubes. 2016 , 32, 7064-9		9
485	Structural origin of proton mobility in a protic ionic liquid/imidazole mixture: insights from computational and experimental results. 2016 , 18, 23195-206		22
484	Absorption and Oxidation of Nitrogen Oxide in Ionic Liquids. 2016 , 22, 11745-55		20
483	Interfacial tension and wetting properties of 1-ethyl-3-methylimidazolium tetrafluoroborate in carbon dioxide, from atmospheric pressure to supercritical state. 2016 , 116, 83-89		5
482	Noncovalently functionalized graphene oxide/graphene with imidazolium-based ionic liquids for adsorptive removal of dibenzothiophene from model fuel. 2016 , 51, 10092-10103		33
481	New quantum chemistry-based descriptors for better prediction of melting point and viscosity of ionic liquids. 2016 , 427, 498-503		30
480	Calorimetric study of polymorphism in 1-butyl-3-methylimidazolium hexafluorophosphate. 2016 , 102, 211-218		14
479	ANFIS modeling of ionic liquids densities. 2016 , 224, 965-975		27
478	Feasible study of polypyrrole film in single and double cationic ionic liquids as novel electrolytes for energy storage applications. 2016 , 222, 274-284		5
477	Synthesis and characterization of physical, thermal and thermodynamic properties of ionic liquids based on [C12mim] and [N444H] cations for thermal energy storage. 2016 , 224, 999-1007		9

- 476 An accurate CSA-LSSVM model for estimation of densities of ionic liquids. **2016**, 224, 954-964 19
- 475 Synthesis of Bi_{0.5}Sb_{1.5}Te₃ Sintered Composite with Dispersed Ionic Liquid and Investigation of their Thermoelectric Properties. **2016**, 63, 719-724
- 474 The Electrochemical Synthesis of Polycationic Clusters. **2016**, 55, 1173-7 19
- 473 Theoretical insights into the properties of amino acid ionic liquids in aqueous solution. **2016**, 22, 152 4
- 472 Melting/freezing points of high concentrations of AlCl₃ in a saturated chloroaluminate ionic liquid. **2016**, 124, 395-398 5
- 471 Interactions of 1,2,3-trialkylimidazolium-based ionic liquids with γ -butyrolactone. **2016**, 101, 260-269 10
- 470 Stability studies of ionic liquid [EMIm][NTf₂] under short-term thermal exposure. **2016**, 6, 48462-48468 7
- 469 Study on Nanometer-Thick Room-Temperature Ionic Liquids (RTILs) for Application as the Media Lubricant in Heat-Assisted Magnetic Recording (HAMR). **2016**, 55, 6391-6397 15
- 468 Physicochemical Properties of New Imidazolium-Based Ionic Liquids Containing Aromatic Group. *Journal of Chemical & Engineering Data*, **2016**, 61, 2020-2026 2.8 17
- 467 Effect of Structure on Transport Properties (Viscosity, Ionic Conductivity, and Self-Diffusion Coefficient) of Aprotic Heterocyclic Anion (AHA) Room Temperature Ionic Liquids. 2. Variation of Alkyl Chain Length in the Phosphonium Cation. **2016**, 120, 5767-76 33
- 466 NMR Study on Ion Dynamics and Phase Behavior of a Piperidinium-Based Room-Temperature Ionic Liquid: 1-Butyl-1-methylpiperidinium Bis(fluorosulfonyl)amide. **2016**, 120, 5710-9 12
- 465 Die elektrochemische Synthese polykationischer Cluster. **2016**, 128, 1188-1192 7
- 464 Physicochemical and excess properties of binary mixtures of (1-alkyl-3-methylimidazoliumchloride/bromide + ethylene glycol) at T = (288.15 to 333.15) K. **2016**, 70, 1
- 463 Mechanistic outlook on thermal degradation of 1,3-dialkyl imidazolium ionic liquids and organoclays. **2016**, 6, 9421-9428 18
- 462 Modeling the density of ionic liquids with ePC-SAFT. **2016**, 410, 9-22 31
- 461 Experimental Density of Ionic Liquids and Thermodynamic Modeling with Group Contribution Equation of State Based on the Lattice Fluid Theory. *Journal of Chemical & Engineering Data*, **2016**, 61, 348-353 2.8 26
- 460 Dicyanamide-based ionic liquids in the liquid-liquid extraction of aromatics from alkanes: Experimental evaluation and computational predictions. **2016**, 109, 561-572 44
- 459 Modeling the vapor-liquid equilibria and water activity coefficients of alternative refrigerant-absorbent ionic liquid-water pairs for absorption systems. **2016**, 426, 100-109 19

458	Molecular interactions between ammonium-based ionic liquids and molecular solvents: current progress and challenges. 2016 , 18, 8278-326		34
457	Azoniaspiro salts: towards bridging the gap between room-temperature ionic liquids and molten salts. 2016 , 18, 3339-51		11
456	Molecular modelling of ionic liquids in the ordered mesoporous carbon CMK-5. 2016 , 42, 753-763		5
455	Effect of Alkyl Chain Branching on Physicochemical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1078-1091	2.8	61
454	Computation of chromatographic lipophilicity parameter log _k 0 of ionic liquid cations from π descriptors: Application in modeling of toxicity of ionic liquids to pathogenic bacteria. 2016 , 216, 754-763		14
453	Perturbation of the Experimental Phase Diagram of a Diblock Copolymer by Blending with an Ionic Liquid. 2016 , 49, 205-214		31
452	Investigation of Binary Mixtures Containing 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)azanide and Ethylene Carbonate. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 114-123	2.8	22
451	Review on concentrating solar power plants and new developments in high temperature thermal energy storage technologies. 2016 , 53, 1411-1432		523
450	The electrolyte layer composition: A key element for improving the performance of carbon nanotube actuator. 2016 , 222, 1073-1082		2
449	Photochemistry of imidazolium cations. Water addition to methylimidazolium ring induced by UV radiation in aqueous solution. 2016 , 314, 155-163		5
448	Isothermal Synthesis of Molecular Sieves. 2016 , 37-76		2
447	Isothermal and non-isothermal crystallization kinetics of PVA + ionic liquid [BDMIM][BF ₄]-based polymeric films. 2016 , 89, 578-597		12
446	Screening of conventional ionic liquids for carbon dioxide capture and separation. 2016 , 162, 1160-1170		72
445	Use of organic materials in dye-sensitized solar cells. 2017 , 20, 267-283		160
444	Size and temperature dependency on structure, heat capacity and phonon density of state for colloidal silver nanoparticle in 1-Ethyl-3-methylimidazolium Hexafluorophosphate ionic liquid. 2017 , 230, 374-383		7
443	Synthesis of High-Purity Imidazolium Tetrafluoroborates and Bis(oxalato)borates. 2017 , 23, 2261-2264		3
442	Quantum Chemical Methods for the Prediction of Energetic, Physical, and Spectroscopic Properties of Ionic Liquids. 2017 , 117, 6696-6754		137
441	2-Ethyl-4-methylimidazolium Alaninate Ionic Liquid: Properties and Mechanism of SO ₂ Absorption. 2017 , 31, 2996-3001		15

440	A reliable radial basis function neural network model (RBF-NN) for the prediction of densities of ionic liquids. 2017 , 231, 462-473		16
439	Isobaric and Isochoric Heat Capacities of Imidazolium-Based and Pyrrolidinium-Based Ionic Liquids as a Function of Temperature: Modeling of Isobaric Heat Capacity. 2017 , 56, 2592-2606		30
438	Nature of the C2-methylation effect on the properties of imidazolium ionic liquids. 2017 , 19, 5326-5332		16
437	Comparative study of the intermolecular dynamics of imidazolium-based ionic liquids with linear and branched alkyl chains: OHD-RIKES measurements. 2017 , 19, 4661-4672		4
436	The Viscosity and Density of Ionic Liquid + Tetraglyme Mixtures and the Effect of Tetraglyme on CO ₂ Solubility. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 608-622	2.8	17
435	Modeling H ₂ S and CO ₂ solubility in ionic liquids using the CPA equation of state through a new approach. 2017 , 437, 155-165		30
434	Physical Properties of Ionic Liquids for Electrochemical Applications. 2017 , 55-94		3
433	Viscosities of Pure Ionic Liquids Using Combinations of Free Volume Theory or Friction Theory with the Cubic, the Cubic Plus Association, and the Perturbed-Chain Statistical Associating Fluid Theory Equations of State at High Pressures. 2017 , 56, 2247-2258		16
432	Cobalt Electrodeposition from Cobalt Chloride Using Urea and Choline Chloride Ionic Liquid: Effect of Temperature, Applied Voltage, and Cobalt Chloride Concentration on Current Efficiency and Energy Consumption. 2017 , 97-114		1
431	Excess molar volumes and viscosity behaviour of binary mixtures of aniline/or N,N-dimethylaniline with imidazolium ionic liquids having triflate or bistriflamide anion. 2017 , 109, 137-154		18
430	1-Ethyl-3-methylimidazolium acetate as a highly efficient organocatalyst for cyanosilylation of carbonyl compounds with trimethylsilyl cyanide. 2017 , 7, 42699		14
429	Hollow Sodium Nickel Fluoride Nanocubes Deposited MWCNT as An Efficient Electrocatalyst for Urea Oxidation. 2017 , 240, 175-185		52
428	A new approach to sepiolite dispersion by treatment with ionic liquids. 2017 , 143, 234-240		33
427	In Situ Probing of Ion Ordering at an Electrified Ionic Liquid/Au Interface. 2017 , 29, 1606357		9
426	Fragility of ionic liquids measured by Flash differential scanning calorimetry. 2017 , 654, 121-129		23
425	Catalytic depolymerization of organosolv sugarcane bagasse lignin in cooperative ionic liquid pairs. 2017 , 298, 168-174		19
424	Multiscale Studies on Ionic Liquids. 2017 , 117, 6636-6695		410
423	Liquid-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	2.8	9

422	Thermal stability of some imidazolium [NTf ₂] ionic liquids: Isothermal and dynamic kinetic study through thermogravimetric procedures. 2017 , 112, 105-113	27
421	Physicochemical and thermodynamic properties of imidazolium ionic liquids with nitrile and ether dual functional groups. 2017 , 225, 281-289	17
420	A new method for assessment of glass transition temperature of ionic liquids from structure of their cations and anions without using any computer codes. 2017 , 130, 2369-2387	9
419	Influence of the alkyl side-chain length on the ultrafast vibrational dynamics of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide (CmimNTf) ³ ionic liquids. 2017 , 19, 15988-15995	3
418	Molecular Simulation Methods for CO ₂ Capture and Gas Separation with Emphasis on Ionic Liquids. 2017 , 79-111	2
417	A novel correlative approach for ionic liquid thermal conductivities. 2017 , 236, 214-219	13
416	1-Alkyl-3-methylimidazolium 4-organyloxy-2,3,5,6-tetrafluorophenyltrifluoroborates as a new platform for ionic liquids with specific properties. 2017 , 7, 17497-17504	6
415	Ionic liquids and deep eutectic solvents for lignocellulosic biomass fractionation. 2017 , 19, 2636-2665	153
414	Investigation of 1,2,3-trialkylimidazolium ionic liquids: experiment and density functional theory calculations. 2017 , 41, 650-660	9
413	Influence of C2-Methylation of Imidazolium Based Ionic Liquids on Photoinduced Spin Dynamics of the Dissolved ZnTPP Studied by Time-Resolved EPR. 2017 , 231,	9
412	Ionic liquids for absorption and separation of gases: An extensive database and a systematic screening method. 2017 , 63, 1353-1367	62
411	A GEP based model for prediction of densities of ionic liquids. 2017 , 227, 373-385	9
410	Nanoconfined Ionic Liquids. 2017 , 117, 6755-6833	349
409	Prediction of heat capacities of ionic liquids using chemical structure based networks. 2017 , 227, 324-332	11
408	Can the Boyle's and critical parameters be unambiguously correlated for polar and associating fluids, liquid metals, ionic liquids?. 2017 , 434, 200-210	6
407	Production of Levoglucosenone and Dihydrolevoglucosenone by Catalytic Reforming of Volatiles from Cellulose Pyrolysis Using Supported Ionic Liquid Phase. 2017 , 5, 1132-1140	60
406	Influence of methyl and propyl groups on the vibrational spectra of two imidazolium ionic liquids and their non-ionic precursors. 2017 , 1134, 582-590	28
405	Electrodeposition of zinc nanoplates from an ionic liquid composed of 1-butylpyrrolidine and ZnCl ₂ : electrochemical, in situ AFM and spectroscopic studies. 2017 , 46, 455-464	12

404	Representation of phase behavior of ionic liquids and their mixtures using various forms of cubic-two-state equation of state. 2017 , 435, 15-26		2
403	Toward the Elucidation of the Competing Role of Evaporation and Thermal Decomposition in Ionic Liquids: A Multitechnique Study of the Vaporization Behavior of 1-Butyl-3-methylimidazolium Hexafluorophosphate under Effusion Conditions. 2017 , 121, 10382-10393		13
402	Physicochemical Properties of Long Chain Alkylated Imidazolium Based Chloride and Bis(trifluoromethanesulfonyl)imide Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 3084-3094	2.8	11
401	A Comparison among Viscosity, Density, Conductivity, and Electrochemical Windows of N-n-Butyl-N-methylpyrrolidinium and Triethyl-n-pentylphosphonium Bis(fluorosulfonyl imide) Ionic Liquids and Their Analogues Containing Bis(trifluoromethylsulfonyl) Imide Anion. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 3437-3444	2.8	29
400	Dynamic Three-Dimensional Nanowetting Behavior of Imidazolium-Based Ionic Liquids Probed by Molecular Dynamics Simulation. 2017 , 121, 23716-23726		20
399	Solid-liquid equilibrium and heat capacity trend in the alkyimidazolium PF6 series. 2017 , 248, 678-687		15
398	White Birch Trunk Extracts as a Source of Organic Compounds. 2017 , 2, 9607-9619		2
397	Thermodynamic properties of the 1-butyl-3-methylimidazolium mesilate ionic liquid [C4mim][OMs] in condensed phase, using molecular simulations. 2017 , 244, 422-432		6
396	Multicomponent ionic liquid CMC prediction. 2017 , 19, 25309-25318		3
395	Thermal Breakdown Kinetics of 1-Ethyl-3-Methylimidazolium Ethylsulfate Measured Using Quantitative Infrared Spectroscopy. 2017 , 71, 2626-2631		1
394	Interaction of Ester-Functionalized Ionic Liquids with Atomically-Defined Cobalt Oxides Surfaces: Adsorption, Reaction and Thermal Stability. 2017 , 18, 3443-3453		9
393	Dimethyldioxirane (DMDO) as a valuable oxidant for the synthesis of polyfunctional aromatic imidazolium monomers bearing epoxides. 2017 , 19, 5054-5059		14
392	Natural convection heat transfer utilizing ionic nanofluids with temperature-dependent thermophysical properties. 2017 , 174, 13-24		35
391	Preparation of disk-like cellulose particles. 2017 , 24, 3111-3118		4
390	MetILs3: A Strategy for High Density Energy Storage Using Redox-Active Ionic Liquids. 2017 , 1, 1700066		9
389	Highly efficient and selective absorption of H ₂ S in phenolic ionic liquids: A cooperative result of anionic strong basicity and cationic hydrogen-bond donation. 2017 , 173, 253-263		76
388	Thermodynamic properties and corrosivity of a new absorption heat pump working pair: Lithium nitrate+1-butyl-3-methylimidazolium bromide+water. 2017 , 451, 25-39		15
387	Crystallization Temperature, Vapor Pressure, Density, Viscosity, and Specific Heat Capacity of the LiNO ₃ /[BMIM]Cl/H ₂ O Ternary System. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 3043-3052 ^{2.8}		13

386	Highly Efficient Separation of Phenolic Compounds from Oil Mixtures by Imidazolium-Based Dicationic Ionic Liquids via Forming Deep Eutectic Solvents. 2017 , 31, 10274-10282	34
385	Quantifying intermolecular interactions of ionic liquids using cohesive energy densities. 2017 , 4, 171223	26
384	Real-space analysis of diffusion behavior and activation energy of individual monatomic ions in a liquid. 2017 , 3, e1701546	9
383	Thermal decomposition of 1-alkyl-3-methylpyridinium based ionic liquids. 2017 , 87, 2287-2290	1
382	Ionic liquids with anions based on fluorosulfonyl derivatives: from asymmetrical substitutions to a consistent force field model. 2017 , 19, 29617-29624	32
381	Implementation of CP-PC-SAFT for Predicting Thermodynamic Properties and Gas Solubility in 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids without Fitting Binary Parameters. 2017 , 56, 7845-7857	26
380	Effect of Different Families of Hydrophobic Anions of Imadazolium Ionic Liquids on Asphaltene Dispersants in Heavy Crude Oil. 2017 , 31, 8045-8053	24
379	Controlled synthesis of icosahedral gold nanocrystals, and their self-assembly with an ionic liquid for enhanced immunosensing of squamous cell carcinoma antigen. 2017 , 184, 3565-3572	5
378	Synthesis of star polymeric ionic liquids and use as the stabilizers for high internal phase emulsions. 2017 , 35, 54-65	10
377	Topological analysis of thermodynamic properties of binary mixtures containing 1-butyl-3-methylimidazolium tetrafluoroborate and cycloalkanones. 2017 , 127, 2459-2472	8
376	A New Method for Predicting Decomposition Temperature of Imidazolium-based Energetic Ionic Liquids. 2017 , 643, 171-179	16
375	Ionic liquid electrolyte for supercapacitor with high temperature compatibility. 2017 , 922, 012011	10
374	Effects of Ions on the Molecular Organization of H ₂ O \ddagger -Propanol (1P)-Probing Methodology. 2017 , 291-332	
373	Solution Thermodynamics and its Application to Aqueous Solutions - Pages 407-418. 2017 , 407-418	
372	Synthesis of Bi _{0.5} Sb _{1.5} Te ₃ Sintered Composite with Dispersed Ionic Liquid and Investigation of Thermoelectric Properties. 2017 , 58, 1749-1753	1
371	Influence of binary solvent system on the stability and efficiency of liquid dye sensitized solar cells. 2018 , 358, 70-75	12
370	Dicyanamide Salts that Adopt Smectic, Columnar, or Bicontinuous Cubic Liquid-Crystalline Mesophases. 2018 , 24, 6399-6411	11
369	Thermochemical Properties of the 1-Ethyl-3-Methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquid under Conditions of Equilibrium with Atmospheric Moisture. 2018 , 92, 24-28	7

368	Thermodynamic analysis of CO ₂ separation from biogas with conventional ionic liquids. 2018 , 217, 75-87	16
367	Carbon Capsules of Ionic Liquid for Enhanced Performance of Electrochemical Double-Layer Capacitors. 2018 , 10, 16707-16714	38
366	The Thermodynamic and Excess Properties of Trialkyl-Substituted Imidazolium-Based Ionic Liquids with Thiocyanate and Its Binary Systems with Acetonitrile. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1408-1418	2.8 4
365	Isobaric heat capacity of nanostructured liquids with potential use as lubricants. 2018 , 123, 107-116	9
364	Thermal, electrochemical and radiolytic stabilities of ionic liquids. 2018 , 20, 8382-8402	156
363	Mechanical heterogeneity in ionic liquids. 2018 , 148, 193803	12
362	Ultraslow Phase Transitions in an Anion-Anion Hydrogen-Bonded Ionic Liquid. 2018 , 122, 1972-1980	12
361	Electronic structure, spectral characteristics and physicochemical properties of linear, branched and cyclic alkyl group substituted 1-alkyl-3-butylimidazolium cation based ionic liquids. 2018 , 251, 394-406	10
360	Exploring the role of ionic liquids to tune the polymorphic outcome of organic compounds. 2018 , 9, 1510-1520	19
359	Understanding the heat capacity enhancement in ionic liquid-based nanofluids (ionanofluids). 2018 , 253, 326-339	37
358	The ignition process measurements and performance evaluations for hypergolic ionic liquid fuels: [EMIm][DCA] and [BMIm][DCA]. 2018 , 215, 612-618	20
357	Measurement and correlation of the physical properties of aqueous solutions of ammonium based ionic liquids. 2018 , 253, 250-258	18
356	Structure and SO ₂ Absorption Properties of Guanidinium-Based Dicarboxylic Acid Ionic Liquids. 2018 , 32, 1956-1962	21
355	A novel and simple approach for predicting activation energy of thermolysis of some selected ionic liquids. 2018 , 134, 2383-2390	3
354	Nanostructure of propylammonium nitrate in the presence of poly(ethylene oxide) and halide salts. 2018 , 148, 193826	5
353	Isobaric and Isochoric Heat Capacities as Well as Isentropic and Isothermal Compressibilities of Di- and Trisubstituted Imidazolium-Based Ionic Liquids as a Function of Temperature. 2018 , 57, 5161-5172	33
352	Toxic effect and mechanism of four ionic liquids on seedling taproots of <i>Arabidopsis thaliana</i> . 2018 , 25, 14703-14712	4
351	Cluster Assemblies Produced by Aggregation of Preformed Ag Clusters in Ionic Liquids. 2018 , 34, 4811-4819	11

- 350 Experimental Densities and Calculated Fractional Free Volumes of Ionic Liquids with Tri- and Tetra-substituted Imidazolium Cations. *Journal of Chemical & Engineering Data*, **2018**, 63, 2522-2532^{2.8} 5
- 349 Interfacial properties of the ionic liquid [bmim][triflate] over a wide range of temperatures.. **2018**, 8, 10115-10123 10
- 348 Biobased Green Lubricants: Physicochemical, Tribological and Toxicological Properties of Fatty Acid Ionic Liquids. **2018**, 61, 195-206 25
- 347 Ionic liquid-assisted subcritical water enhances the extraction of phenolics from brown seaweed and its antioxidant activity. **2018**, 196, 287-299 59
- 346 Supercritical carbon dioxide and imidazolium based ionic liquids applied during the sol-gel process as suitable candidates for the replacement of classical organic solvents. **2018**, 132, 76-82 10
- 345 Structure and lifetimes in ionic liquids and their mixtures. **2018**, 206, 219-245 57
- 344 Thermally stable microemulsions comprising imidazolium based surface active ionic liquids, non-polar ionic liquid and ethylene glycol as polar phase. **2018**, 511, 344-354 28
- 343 Further development of the predictive models for physical properties of pure ionic liquids: Thermal conductivity and heat capacity. **2018**, 118, 1-15 30
- 342 Trioctylphosphonium room temperature ionic liquids with perfluorinated groups [Physical properties and surface behavior in comparison with the nonfluorinated analogues. **2018**, 537, 116-125 8
- 341 Characterization of newly synthesized pyrimidine derivatives for corrosion inhibition as inferred from computational chemical analysis. **2018**, 1152, 328-336 26
- 340 Nucleation and growth of microdroplets of ionic liquids deposited by physical vapor method onto different surfaces. **2018**, 428, 242-249 17
- 339 Gas drying with ionic liquids. **2018**, 64, 606-619 36
- 338 Ionic liquids: solvents and sorbents in sample preparation. **2018**, 41, 209-235 101
- 337 Complex effect of lignocellulosic biomass pretreatment with 1-butyl-3-methylimidazolium chloride ionic liquid on various aspects of ethanol and fumaric acid production by immobilized cells within SSF. **2018**, 250, 429-438 31
- 336 First-Principles Molecular Dynamics Study of a Deep Eutectic Solvent: Choline Chloride/Urea and Its Mixture with Water. **2018**, 122, 1245-1254 110
- 335 Synthesis and application of new surface active poly (ionic liquids) based on 1,3-dialkylimidazolium as demulsifiers for heavy petroleum crude oil emulsions. **2018**, 251, 201-211 26
- 334 Highly efficient extraction of phenolic compounds from oil mixtures by trimethylamine-based dicationic ionic liquids via forming deep eutectic solvents. **2018**, 171, 183-191 42
- 333 Two-dimensional structural ordering in a chromophoric ionic liquid for triplet energy migration-based photon upconversion. **2018**, 20, 3233-3240 17

332	Thermodynamic investigations of excess heat capacities of ternary liquid mixtures containing [Bmmim][BF ₄] + [Bmim][BF ₄] or [Emim][BF ₄] + cyclopentanone or cyclohexanone. 2018 , 131, 1653-1669		5
331	PEG-Linked Functionalized Dicationic Ionic Liquids for Highly Efficient SO ₂ Capture through Physical Absorption. 2018 , 32, 12703-12710		22
330	Effect of Solvents and Temperature on Interactions in Binary and Ternary Mixtures of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate with Acetonitrile or/and N,N-Dimethylformamide. <i>Journal of Chemical & Engineering Data</i> , 2018 ,	2.8	3
329	Understanding the Microscopic Behavior of Binary Mixtures of Ionic Liquids through Various Spectroscopic Techniques. 2018 , 122, 12114-12130		12
328	Modeling protic dicationic ionic liquids based on quaternary ammonium, imidazolium or pyrrolidinium cations and bis(trifluoromethanesulfonyl)imide anion: Structure and spectral characteristics. 2018 , 85, 304-315		7
327	Physicochemical features of short-chain 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)-imide ionic liquids containing equilibrium water absorbed from air. 2018 , 272, 759-765		11
326	Borohydride in ionic liquids for tailored hydrogen release. 2018 , 43, 20772-20782		7
325	Synthesis and electrochemical properties of new dicationic ionic liquids. 2018 , 272, 1001-1018		19
324	Dependence of Block Copolymer Domain Spacing and Morphology on the Cation Structure of Ionic Liquid Additives. 2018 , 51, 8979-8986		6
323	Solid-state gel polymer electrolytes based on ionic liquids containing imidazolium cations and tetrafluoroborate anions for electrochemical double layer capacitors: Influence of cations size and viscosity of ionic liquids. 2018 , 406, 128-140		27
322	Current status and challenges of the ammonia escape inhibition technologies in ammonia-based CO ₂ capture process. 2018 , 230, 734-749		43
321	Negative impact of the imidazolium-based ionic liquid [Cmim]Br on silver carp (<i>Hypophthalmichthys molitrix</i>): Long-term and low-level exposure. 2018 , 213, 358-367		18
320	Multifunctional Epoxy-Based Solid Polymer Electrolytes for Solid-State Supercapacitors. 2018 , 10, 35108-35117	39	
319	Supported Ionic Liquid Membranes for Separation of Lignin Aqueous Solutions. 2018 , 6, 143		7
318	Separation of toluene from gas phase using supported imidazolium ionic liquid membrane. 2018 , 566, 367-373		26
317	A new approach for controlling the crystal phase of NiPc in ionic liquids. 2018 , 20, 5496-5499		1
316	Synthesis of new fluorine-containing room temperature ionic liquids and their physical and electrochemical properties. 2018 , 212, 26-37		11
315	Controlling of mild-steel corrosion in acidic solution using environmentally friendly ionic liquid inhibitors: Effect of alkyl chain. 2018 , 265, 654-663		40

314	An operando X-ray diffraction study of chloroaluminate anion-graphite intercalation in aluminum batteries. 2018 , 115, 5670-5675	74
313	Acetate- and lactate-based ionic liquids: Synthesis, characterisation and electrochemical properties. 2018 , 264, 233-241	25
312	Ionic liquids as bulk liquid membranes on levulinic acid removal: A design study. 2018 , 266, 299-308	30
311	Ionic Liquid Stable Cellulases and Hemicellulases: Application in Biobased Production of Biofuels. 2018 , 505-532	3
310	Liquid window of some biologically-active ionic liquids. 2018 , 126, 1-10	7
309	High-resolution mapping of molecules in an ionic liquid via scanning transmission electron microscopy. 2018 , 67, i162-i167	3
308	Ionic liquid-mediated solvothermal synthesis of 4,4'-methylenediphenyl diisocyanate (MDI): an efficient and environment-friendly process. 2018 , 42, 12243-12255	5
307	Improved antifouling ability of thin film composite polyamide membrane modified by a pH-sensitive imidazole-based zwitterionic polyelectrolyte. 2018 , 564, 788-799	28
306	Temperature Dependence on Density, Viscosity, and Electrical Conductivity of Ionic Liquid 1-Ethyl-3-Methylimidazolium Fluoride. 2018 , 8, 356	13
305	Isothermal and Nonisothermal Crystallization Kinetics of Poly(ϵ -caprolactone) Blended with a Novel Ionic Liquid, 1-Ethyl-3-propylimidazolium Bis(trifluoromethanesulfonyl)imide. 2018 , 10,	6
304	Molecular dynamic simulation, molecular interactions and structural properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide + 1-butanol/1-propanol mixtures at (298.15 \pm 0.15) K and 0.1 MPa. 2018 , 472, 9-21	12
303	The Temperature Effect on the Transport Properties of 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. 2018 , 92, 724-729	5
302	Determination of Extractant Solubility in Ionic Liquids by Thermogravimetric Analysis. 2018 , 36, 304-314	3
301	Supported bicyclic amidine ionic liquids as a potential CO ₂ /N ₂ separation medium. 2018 , 565, 203-212	20
300	CO ₂ -philic WS ₂ laminated membranes with a nanoconfined ionic liquid. 2018 , 6, 16566-16573	24
299	Taming electronic properties of boron nitride nanosheets as metal-free catalysts for aerobic oxidative desulfurization of fuels. 2018 , 20, 4453-4460	79
298	Thermal stability of dialkylimidazolium tetrafluoroborate and hexafluorophosphate ionic liquids: ex situ bulk heating to complement in situ mass spectrometry. 2018 , 20, 16786-16800	9
297	Ethoxy-Ester Functionalized Imidazolium based Ionic Liquids for Lithium Ion Batteries. 2018 , 3, 6255-6261	5

296	Nonlinear electrical conductivity of ionic liquid modified WS ₂ /EPDM field grading material. 2018 , 123, 205113	3
295	Comparison of Electronic and Physicochemical Properties between Imidazolium-Based and Pyridinium-Based Ionic Liquids. 2018 , 122, 6771-6780	9
294	Estimating density of ionic liquids under very high pressure. 2018 , 265, 510-516	5
293	Energy-Saving Ionic Liquid-Based Extractive Distillation Configurations for Separating Ternary Azeotropic System of Tetrahydrofuran/Ethanol/Water. 2019 , 58, 16858-16868	12
292	Thermophysical and electrochemical properties of 1-alkyl-3-(n-butyl)imidazolium bromide ionic liquids. 2019 , 139, 105871	8
291	Viscosity of Typical Room-Temperature Ionic Liquids: A Critical Review. 2019 , 48, 033101	24
290	Pyrrrolidinium-based ionic liquids as electrolytes for lithium batteries: A Computational Study. 2019 , 119, e26014	7
289	Impact of viscosity of nanofluid and ionic liquid on heat transfer. 2019 , 291, 111349	14
288	Synthesis and characterization of novel p-type chemically cross-linked ionogels with high ionic seebeck coefficient for low-grade heat harvesting. 2019 , 320, 134575	12
287	Dissolution of cellulose in ionic liquids and their mixed cosolvents: A review. 2019 , 13, 100162	46
286	A novel series of cyclophosphazene derivatives containing imidazolium ionic liquids with variable alkyl groups and their physicochemical properties. 2019 , 295, 111722	7
285	Low-Temperature Phase Transitions of the Ionic Liquid 1-Ethyl-3-methylimidazolium Dicyanamide. 2019 , 123, 9418-9427	9
284	Palmitic-Acid-Based Hydrophobic Deep Eutectic Solvents for the Extraction of Lower Alcohols from Aqueous Media: Liquid-Liquid Equilibria Measurements, Validation and Process Economics. 2019 , 3, 1900024	5
283	Composite nanomaterials based on 1-butyl-3-methylimidazolium dicianamide and clays. 2019 , 8, 4387-4398	12
282	Transition metal containing ionic liquid-assisted one-pot synthesis of pyrazoles at room temperature. 2019 , 131, 1	10
281	Structural and Thermal Properties of Montmorillonite/Ionic Liquid Composites. 2019 , 12,	19
280	Estimating the Solubility, Solution Thermodynamics, and Molecular Interaction of Aliskiren Hemifumarate in Alkylimidazolium Based Ionic Liquids. 2019 , 24,	9
279	Effect of Ionic Composition on Physicochemical Properties of Mono-Ether Functional Ionic Liquids. 2019 , 24,	6

278	Effects of the Water Content on the Transport Properties of Ionic Liquids. 2019 , 58, 19661-19669	10
277	Ionic liquid associated with ultrasonic-assisted extraction: A new approach to obtain carotenoids from orange peel. 2019 , 126, 108653	45
276	Potential dependent capacitance of [EMIM][TFSI], [N][TFSI] and [PYR][TFSI] ionic liquids on glassy carbon. 2019 , 21, 3712-3720	39
275	Exploring the phase diagram of the ionic liquid 1-butyl-1-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide. 2019 , 1183, 149-156	7
274	Nanoconfined Ionic Liquids. 2019 , 23-72	
273	IL-Emitsol: Ionic Liquid Based [EMIM][Tf2N] Solvent Process for Selective Removal of CO ₂ and H ₂ S from Syngas. 2019 , 58, 10007-10017	7
272	Simulation study of biomethane liquefaction followed by biogas upgrading using an imidazolium-based cationic ionic liquid. 2019 , 231, 953-962	19
271	Vapor Liquid Equilibria of 1-Ethyl-3-methylimidazolium Triflate (CmimTfO) and -Alkyl Alcohol Mixtures. 2019 , 123, 6076-6089	6
270	Norm index-based QSTR model to predict the eco-toxicity of ionic liquids towards Leukemia rat cell line. 2019 , 234, 116-122	17
269	Incorporation of an ionic liquid into a midblock-sulfonated multiblock polymer for CO ₂ capture. 2019 , 588, 117193	20
268	Ion Gel Dynamic Templates for Large Modulation of Morphology and Charge Transport Properties of Solution-Coated Conjugated Polymer Thin Films. 2019 , 11, 22561-22574	10
267	Evidence of CT complex formation between a probe and unreacted methylimidazole in imidazolium cation based ionic liquids: sensing by functionalised 2-benzylidene malononitrile. 2019 , 144, 4432-4438	1
266	Heating load depreciation in the solvent-regeneration step of absorption-based acid gas removal using an ionic liquid with an imidazolium-based cation. 2019 , 87, 89-99	13
265	Crystallization of mixtures of hydrophilic ionic liquids and water: Evidence of microscopic inhomogeneities. 2019 , 552, 43-50	7
264	Thermotropic Phase Transitions in Butyltrimethylammonium Bis(trifluoromethylsulfonyl)imide Ionic Liquids are Dependent on Heat Flux. 2019 , 123, 4757-4765	1
263	Thermal Analysis and SEM Microscopy Applied to Studying the Efficiency of Ionic Liquid Immobilization on Solid Supports. 2019 , 12,	5
262	Plasmonic photosynthesis of C-C hydrocarbons from carbon dioxide assisted by an ionic liquid. 2019 , 10, 2022	86
261	Low-Temperature Charging Dynamics of the Ionic Liquid and Its Gating Effect on FeSeTe Superconducting Films. 2019 , 11, 17979-17986	4

260	Thermal properties of protic ionic liquids derivatives triethanolamine-based salts of mineral and organic acids. 2019 , 138, 703-712		3
259	Suppressing Crystallization of Water-in-Salt Electrolytes by Asymmetric Anions Enables Low-Temperature Operation of High-Voltage Aqueous Batteries. 2019 , 1, 44-51		56
258	Low-frequency Raman spectra of a glass-forming ionic liquid at low temperature and high pressure. 2019 , 150, 164502		5
257	Colored Ionic Liquid Based on Stable Polycyclic Anion Salt Showing Halochromism with HCl Vapor. 2019 , 21, 2161-2165		12
256	Using thermal analysis technology to assess the thermal stability of 1,3-dimethylimidazolium nitrate. 2019 , 124, 181-186		18
255	Study on the Adsorption Behavior between an Imidazolium Ionic Liquid and Na-Montmorillonite. 2019 , 24,		6
254	Polymeric ionic liquids tailored by different chain groups for the efficient conversion of CO ₂ into cyclic carbonates. 2019 , 21, 2352-2361		27
253	Ionic Liquids: A Simple Model to Predict Ion Conductivity Based on DFT Derived Physical Parameters. 2019 , 7, 126		10
252	Thermophysical Properties of 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate in a Wide Range of Temperatures and Pressures. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 2247-2258 ^{2.8}		7
251	Viscosity of 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide Ionic Liquids Saturated with Compressed CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4658-4667	2.8	5
250	Increased Flexibility in Polyimide Aerogels Using Aliphatic Spacers in the Polymer Backbone. 2019 , 11, 9425-9437		30
249	Influence of temperature and alkyl chain length on physicochemical properties of trihexyl- and trioctylammonium based protic ionic liquids. 2019 , 133, 170-180		13
248	Ion pairing and preferential solvation of butylmethylimidazolium chloride ion pair in water-ethanol mixtures by using molecular dynamics simulations. 2019 , 720, 107-112		
247	Ionic Liquids in Wonderland: From Electrostatics to Coordination Chemistry. 2019 , 123, 5804-5811		3
246	Shifting redox potential of nitroxyl radical by introducing an imidazolium substituent and its use in aqueous flow batteries. 2019 , 418, 11-16		22
245	Molecular Mobility in a Set of Imidazolium-Based Ionic Liquids [bmim]A by the NMR-Relaxation Method. 2019 , 123, 2362-2372		14
244	Controlled Phase Behavior of Thermally Sensitive Poly(-isopropylacrylamide/ionic liquid) with Embedded Au Nanoparticles. 2019 , 4, 20923-20930		4
243	Density Functional Theory Studies on Zeolitic Imidazolate Framework-8 and Ionic Liquid-Based Composite Materials. 2019 , 4, 22655-22666		15

242	Celebrating JCEd's High Impact Authors. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4607-4610	2
241	Molecular dynamics investigation of wetting-dewetting behavior of model carbon material by 1-butyl-3-methylimidazolium acetate ionic liquid nanodroplet. 2019 , 151, 244705	4
240	Improved extraction of the natural anticancerigen pristimerin from <i>Mortonia greggii</i> root bark using green solvents and aqueous two-phase systems. 2019 , 211, 667-672	6
239	Effect of halides on the solvation of poly(ethylene oxide) in the ionic liquid propylammonium nitrate. 2019 , 534, 649-654	5
238	Experimental and theoretical assessment of the interactions of ionic liquids (ILs) with fluoridated compounds (HF, R-F) in organic medium. 2019 , 276, 779-793	7
237	Surface tension investigation of ionic liquids by using the Pseudolattice theory. 2019 , 277, 80-83	3
236	Fluctuations and Mixing State of an Aqueous Solution of the Ionic Liquid Tetrabutylphosphonium Trifluoroacetate around the Critical Point. 2019 , 72, 93	3
235	Fluid phase equilibrium prediction of acid gas solubility in imidazolium-based ionic liquids with the Peng-Robinson and the PC-SAFT models. 2019 , 37, 110-117	5
234	Assessment of carbon dioxide solubility in ionic liquid/toluene/water systems by extended PR and PC-SAFT EOSs: Carbon capture implication. 2019 , 275, 323-337	22
233	Tuning the rheological properties of cellulosic ionogels reinforced with chitosan: The role of the deacetylation degree. 2019 , 207, 775-781	12
232	Synthesis, Characterization, and Evaluation of Surface and Thermal Properties and Cytotoxicity of 2-Hydroxy-3-Phenoxypropyl Imidazolium Bola-Type Gemini Amphiphiles. 2019 , 22, 33-46	3
231	Recent trends in biobutanol production. 2019 , 35, 475-504	36
230	Experimental and theoretical study on infinite dilution activity coefficients of various solutes in ionic liquid 1-propyl-2,3-dimethylimidazolium bis(trifluoromethylsulfonyl)imide. 2020 , 140, 105894	4
229	Binary mixtures of ionic liquids based on EMIm cation and fluorinated anions: physico-chemical characterization in view of their application as low-temperature electrolytes. 2020 , 298, 111959	17
228	Experimental and modeling study for the removal of formic acid through bulk ionic liquid membrane using response surface methodology. 2020 , 207, 1426-1439	4
227	Influence of ionic liquid type on porous carbon formation during the ionothermal pyrolysis of cellulose. 2020 , 145, 104728	8
226	Ionic liquids: A milestone on the pathway to greener recycling of cellulose from biomass. 2020 , 155, 104678	24
225	Ionic Liquid-Based Membranes. 2020 , 317-345	1

224	Effects of imidazolium-based ionic liquids on the isobaric vapor-liquid equilibria of methanol + dimethyl carbonate azeotropic systems. 2020 , 28, 766-776	7
223	Ionic liquids removal by sequential photocatalytic and biological oxidation. 2020 , 95, 1926-1935	6
222	Biogas to liquefied biomethane: Assessment of 3P's Production, processing, and prospects. 2020 , 119, 109561	28
221	Compatibilization of clays and hydrophobic polymers: the case of montmorillonite and polyetheretherketone. 2020 , 77, 5505-5527	4
220	Optimization of reactive extraction of propionic acid with ionic liquids using central composite design. 2020 , 153, 666-676	22
219	Thermodynamic and economic investigation of an ionic liquid as a new proposed geothermal fluid in different organic Rankine cycles for energy production. 2020 , 193, 116722	18
218	Structural and Ion Dynamics in Fluorine-Free Oligoether Carboxylate Ionic Liquid-Based Electrolytes. 2020 , 124, 9690-9700	5
217	Solid state polymer ionogel electrolyte for use in Li-ion batteries. 2020 , 1, 55-65	2
216	Reactivity of Ionic Liquids: Studies on Thermal Decomposition Behavior of 1-Butyl-3-methylimidazolium Tetrafluoroborate. 2020 , 694, 178786	7
215	Protic Imidazolium Cation-Based Ionic Liquids Show Unexpected Interfacial Properties. 2020 , 36, 8904-8913	2
214	Improved Thermophysical Properties and Energy Efficiency of Aqueous Ionic Liquid/MXene Nanofluid in a Hybrid PV/T Solar System. 2020 , 10,	46
213	Ion-Conducting Thermo-responsive Films Based on Polymer-Grafted Cellulose Nanocrystals. 2020 , 12, 54083-54093	10
212	Ionic-Liquid-Based Contactors for Carbon Dioxide Removal from Simulated Spacecraft Cabin Atmospheres. 2020 , 57, 1350-1361	0
211	Ultrathin ionic liquid films on metal surfaces: adsorption, growth, stability and exchange phenomena. 2020 , 5, 1761266	14
210	Synthesis and characterization of thermo-responsive ionic liquids (TRILs). 2020 , 736, 042027	4
209	Design, Sustainable Synthesis, Characterization, Antimicrobial Evaluation and in silico ADMET Prediction of New Functionalized Imidazolium Based Ionic Liquids. 2020 , 32, 1972-1980	
208	Melting point depression of ionic liquids by their confinement in carbons of controlled mesoporosity. 2020 , 169, 501-511	7
207	Interactions between ionic liquid and fully zwitterionic copolymers probed using thermal analysis. 2020 , 691, 178710	1

206	Selection of a suitable ZIF-8/ionic liquid (IL) based composite for selective CO capture: the role of anions at the interface.. 2020 , 10, 39160-39170	12
205	Thermolysis of Organofluoroborate Ionic Liquids to NHC-Organofluoroborates. 2020 , 8, 16386-16390	1
204	Intrinsic MRI contrast from amino acid-based paramagnetic ionic liquids. 2020 , 1, 1980-1987	3
203	Assessment of cytotoxicity of imidazole ionic liquids and inclusion in targeted drug carriers containing violacein.. 2020 , 10, 29336-29346	10
202	Liquid Structure of Single and Mixed Cation Alkylammonium Bromide Urea Deep Eutectic Solvents. 2020 , 124, 8651-8664	7
201	Spray Encapsulation as a Formulation Strategy for Drug-Based Room Temperature Ionic Liquids: Exploiting Drug-Polymer Immiscibility to Enable Processing for Solid Dosage Forms. 2020 , 17, 3412-3424	5
200	Overview of Ionic Liquids as Candidates for New Heat Transfer Fluids. 2020 , 41, 1	20
199	Unique phase behavior of a room-temperature ionic liquid, trimethylpropylammonium bis(fluorosulfonyl)amide: surface melting and its crystallization. 2020 , 22, 20634-20642	0
198	The effect of thermal treatment on ac/dc conductivity and current fluctuations of PVDF/NMP/[EMIM][TFSI] solid polymer electrolyte. 2020 , 10, 21140	7
197	Photorheology and Gelation during Polymerization of Coordinated Ionic Liquids. 2020 , 2, 2397-2405	4
196	Amine-Based Ionic Liquid for CO ₂ Capture and Electrochemical or Thermal Regeneration. 2020 , 8, 8356-8361	15
195	Theoretical and experimental studies on the thermal decomposition of 1-butyl-3-methylimidazolium dibutyl phosphate. 2020 , 65, 104162	3
194	Removal of chlorophenols from aqueous media with hydrophobic deep eutectic solvents: Experimental study and COSMO RS evaluation. 2020 , 311, 113180	21
193	Influence of the alkyl chain cation position on thermal behaviour: (1,2) and (1,4) pyridinium Bis(trifluoromethylsulfonyl)imide - Based ionic liquids. 2020 , 519, 112658	3
192	Assessing the ecotoxicity of ionic liquids on <i>Vibrio fischeri</i> using electrostatic potential descriptors. 2020 , 397, 122761	11
191	Rate-Based Process Optimization and Sensitivity Analysis for Ionic-Liquid-Based Post-Combustion Carbon Capture. 2020 , 8, 10242-10258	15
190	NH ₃ absorption performance and reversible absorption mechanisms of protic ionic liquids with six-membered N-heterocyclic cations. 2020 , 248, 117087	13
189	Benchmark access to anhydrous actinide N-donor coordination complexes using ionic liquids. 2020 , 56, 4232-4235	8

188	Volumetric properties of three pyridinium-based ionic liquids with a common cation or anion. 2020 , 521, 112732	4
187	Theoretical and experimental study of 1-butyl-3-methylimidazolium nitrate with 1-pentanol, 1-hexanol and 1-heptanol: COSMO-RS and structure factor. 2020 , 150, 106232	1
186	An Insight into Solubility of H ₂ S in Choline Based Ionic Liquids from Molecular Dynamics Simulation. 2020 , 17, 1422-1431	1
185	Estimation of thermodynamic properties of ionic liquids. 2020 , 315, 113585	3
184	. 2020 ,	2
183	Effect of the Ionic Liquid Structure on the Melt Processability of Polyacrylonitrile Fibers. 2020 , 12, 8663-8673	3
182	New Green Adsorbent for Capturing Carbon Dioxide by Choline Chloride:Urea-Confined Nanoporous Silica. 2020 , 45, 4621-4634	3
181	The kinetics of thermal decomposition of 1-alkyl-3-methylimidazolium chloride ionic liquids under isothermal and non-isothermal conditions. 2020 , 685, 178509	13
180	Experimental and MD simulation investigation on thermophysical properties of binary/ternary mixtures of 1-butyl-3-methylimidazolium trifluoromethanesulfonate with molecular solvents. 2020 , 302, 112481	3
179	Palladium Acetate/[CPy][Br]: An Efficient Catalytic System towards the Synthesis of Biologically Relevant Stilbene Derivatives via Heck Cross-Coupling Reaction.. 2020 , 5, 4251-4262	4
178	Potential of Mean Force Calculations for an S ₂ Fluorination Reaction in Five Different Imidazolium Ionic Liquid Solvents Using Quantum Mechanics/Molecular Mechanics Molecular Dynamics Simulations. 2020 , 124, 4338-4357	7
177	Ionic Liquids as Green Solvents for Reactive Separation of Glutaric Acid from Water. 2020 , 231, 1	1
176	Effectiveness of toluene separation from gas phase using supported ammonium ionic liquid membrane. 2020 , 219, 115605	4
175	Encapsulated ionic liquids for CO ₂ capture. 2020 , 251, 122982	6
174	Heat capacity of 1-hexadecyl-3-methylimidazolium based ionic liquids in solid and liquid phase. 2020 , 305, 112847	7
173	Silica-immobilized ionic liquid Brønsted acids as highly effective heterogeneous catalysts for the isomerization of -heptane and -octane.. 2020 , 10, 15282-15292	6
172	Nanotribology of Ionic Liquids: Transition to Yielding Response in Nanometric Confinement with Metallic Surfaces. 2020 , 10,	4
171	Solvent structural effects on the solubility of bis(2-ethylhexyl)phosphoric acid (HDEHP) in room-temperature ionic liquids. 2021 , 56, 800-810	3

170	Imidazolium-based ionic liquids for asphaltene dispersion; experimental and computational studies. 2021 , 324, 114698	5
169	An Insight View on Synthetic Protocol, Surface Activity, and Biological Aspects of Novel Biocompatible Quaternary Ammonium Cationic Gemini Surfactants. 2021 , 24, 35-49	4
168	A perspective on ionic liquid-based membranes for CO ₂ separation. 2021 , 75, 839-852	3
167	A Raman spectroscopy and rheology study of the phase transitions of the ionic liquid choline acetate. 2021 , 322, 114530	3
166	Evaluating the properties of ionic liquid at variable temperatures and pressures by quantitative structure-property relationship (QSPR). 2021 , 231, 116326	4
165	Physical-chemical properties of newly synthesized tetraalkylammonium alkyl ether carboxylate ionic liquids. 2021 , 322, 114947	8
164	Modified Lyocell process to improve dissolution of cellulosic pulp and pulp blends in NMMO solvent. 2021 , 28, 973-990	6
163	Fluorescent imidazolium-based poly(ionic liquid)s for Fe ³⁺ detection in aqueous medium. 2021 , 406, 113015	6
162	Interactions of betainium and imidazolium-based ionic liquids with peptide amphiphiles and their implications in the formation of nanohybrid composite gels. 2021 , 97, 488-504	2
161	Prediction and verification of heat capacities for pure ionic liquids. 2021 , 31, 169-176	1
160	Recent Trends in Electrode and Electrolyte Design for Aluminum Batteries. 2021 , 6, 1043-1053	7
159	Examining the structure and intermolecular forces of thiazolium-based ionic liquids. 2021 , 327, 114800	5
158	Biamphiphilic ionic liquid based aqueous microemulsions as an efficient catalytic medium for cytochrome. 2021 , 23, 320-328	3
157	Simulation on vapor-liquid equilibrium of CO ₂ -[emim][Tf ₂ N] in flow state and depressurization of its refrigeration cycle based on Aspen Plus. 2021 , 124, 75-84	3
156	Deep Eutectic Solvents and Their Physicochemical Properties. 2021 , 9-19	0
155	Developing design tools for introducing and tuning structural order in ionic liquids. 2021 , 23, 1785-1795	1
154	A review of the thermophysical properties and potential of ionic liquids for thermal applications. 2021 , 9, 15861-15879	17
153	Temperature and angle resolved XPS study of BMIm Cl and BMIm FeCl ₄ . 2021 , 247, 147034	2

152	Economic Optimization of Carbon Capture Processes Using Ionic Liquids: Toward Flexibility in Capture Rate and Feed Composition. 2021 , 9, 4823-4839	4
151	Correlated Ion Transport and the Gel Phase in Room Temperature Ionic Liquids. 2021 , 125, 2677-2689	3
150	Thermo-mechanical, antimicrobial and biocompatible properties of PVC blends based on imidazolium ionic liquids. 2021 , 122, 111920	3
149	Ultrasonication-assisted chelating ligand-free extraction of Pb(II) from aqueous solution by using room temperature ionic liquids. 1	
148	Computer-Aided Ionic Liquid Design and Experimental Validation for Benzene-Cyclohexane Separation. 2021 , 60, 4951-4961	2
147	Group Contribution Estimation of Ionic Liquid Melting Points: Critical Evaluation and Refinement of Existing Models. 2021 , 26,	2
146	Thermal Conductivity of Room Temperature Deep Eutectic Solvents. 2021 , 30, 1960	2
145	Use of Deep Eutectic Solvents in the Treatment of Agro-Industrial Lignocellulosic Wastes for Bioactive Compounds.	5
144	Synthesis and characterization of an industrially significant ionic liquid and its inclusion complex with β -cyclodextrin and its soluble derivative for their advanced applications. 2021 , 769, 138401	1
143	Natural Gas Dehydration with Ionic-Liquid-Based Mixed Solvents. 2021 , 9, 6033-6047	6
142	The combustion behavior of epoxy-based multifunctional electrolytes.	2
141	Carbon Nanotube-Based Ionanofluids for Efficient Energy Storage: Thermophysical Properties Determination and Advanced Data Analysis. 2021 , 60, 7714-7728	1
140	Molecular design targets and optimization of low-temperature thermal desalination systems. 2021 , 504, 114941	1
139	Optical and antibacterial properties of 1-butyl-3-methylimidazolium ionic liquids with trifluoromethanesulfonate or tetrafluoroborate anion. 2021 , 264, 124369	1
138	Influence of Alkyl Chain Length on Thermal Properties, Structure, and Self-Diffusion Coefficients of Alkyltriethylammonium-Based Ionic Liquids. 2021 , 22,	7
137	Hydrophobic deep eutectic solvents: Current progress and future directions. 2021 , 97, 142-162	15
136	Evaluating the hazardous impact of ionic liquids - Challenges and opportunities. 2021 , 412, 125215	29
135	Synthesis and Application of (S)-Nicotine-Based Chiral Ionic Liquids in Enantiomeric Recognition by Using Fluorescence Spectroscopy. 2021 , 6, 5685-5688	0

134	Coordination of the Co and Ni Ions in TfN Based Ionic Liquids: A Combined X-ray Absorption and Molecular Dynamics Study. 2021 , 125, 6639-6648	2
133	Properties and mechanism of a poly(ionic liquid) inhibitor contained bi-functional groups for bentonite hydration. 2021 , 138, 51253	
132	Experimental investigation of heat transfer enhancement using ionic liquid-Al ₂ O ₃ hybrid nanofluid in a cylindrical microchannel heat sink. 2021 , 191, 116879	10
131	Experimental and Computational Study of Lithium Salt-/Plastic Crystal-Assisted Ionogels. 1	0
130	Structure and dynamics of TiO ₂ -anchored D205 dye in ionic liquids and acetonitrile. 2021 , 332, 115811	2
129	Methyl chloride dehydration with ionic liquid based on COSMO-RS model. 2021 , 6, 413-421	2
128	Ion Transport and Electrochemical Properties of Fluorine-Free Lithium-Ion Battery Electrolytes Derived from Biomass. 2021 , 9, 7769-7780	4
127	Investigation of multi-objective optimization for integrating design and control of ionic liquid-based extractive distillation. 2021 , 170, 134-146	3
126	Ionic liquidBased solid electrolytes (ionogels) for application in rechargeable lithium battery. 2021 , 20, 100643	14
125	How a small modification in the imidazolium-based SDA can determine the zeolite structure? MFI vs. TON. 2021 , 322, 111160	
124	Anionic dependency of electronic and nonlinear optical properties of ionic liquids. 2021 , 345, 117030	4
123	Control of the data-retention characteristics of ionic-liquid conducting-bridge memory by designing device structures based on corrosion mechanisms. 2021 , 14, 084005	
122	Striking temperature-dependent molecular reorganization at the C-2 position of [EMIM][BF ₄]. 2021 , 783, 138956	
121	Phase behaviour and heat capacities of selected 1-ethyl-3-methylimidazolium-based ionic liquids II. 2021 , 160, 106392	4
120	Comprehensive evaluation of ionic liquid [Bmim][PF ₆] for absorbing toluene and acetone. 2021 , 285, 117675	2
119	Insights into the Structure and Dynamics of Imidazolium Ionic Liquid and Tetraethylene Glycol Dimethyl Ether Cosolvent Mixtures: A Molecular Dynamics Approach. 2021 , 11,	1
118	Thermal stability of ionic liquids in nitrogen and air environments. 2021 , 161, 106560	5
117	Spectroscopic characterization andthermal decomposition kinetics of 1,3-dibutyl-imidazolium bromide synthesized through a solvent-free and one-pot method. 2021 , 339, 117266	3

116	Investigation of CO ₂ and methanol solubility at high pressure and temperature in the ionic liquid [EMIM][BF ₄] employed during methanol synthesis in a membrane-contactor reactor. 2021 , 242, 116722	2
115	Mineral composition and growth of tomato and cucumber affected by imidazolium-based ionic liquids. 2021 , 167, 132-139	1
114	A comprehensive review of thermophysical properties and prospects of ionanocolloids in thermal energy applications. 2021 , 151, 111593	3
113	Degradation of an imidazolium-based ionic liquid in water using monopersulfate catalyzed by Dahlia flower-like cobalt oxide. 2021 , 274, 118668	0
112	Modeling the density and the second-order thermodynamic derivative properties of imidazolium-, cyano-based ionic liquids using the SAFT-EoS. 2021 , 548, 113190	1
111	Cation folding and the thermal stability limit of the ionic liquid [BMIM][BF ₄] under total vacuum.. 2021 , 11, 12951-12960	0
110	Low-Viscosity Ether-Functionalized Ionic Liquids as Solvents for the Enhancement of Lignocellulosic Biomass Dissolution. 2021 , 9, 261	3
109	Ionic liquid glasses: properties and applications. 2021 , 90,	1
108	Evaluation of ionic liquids as replacements for the solid piston in conventional hydrogen reciprocating compressors: A review. 2020 , 45, 16337-16354	7
107	Comparative study of atmospheric ionic liquids based on bis(trifluoromethylsulfonyl)imide anion and alkyl substituted cations of ammonium, pyrrolidinium and imidazolium. 2020 , 312, 113368	5
106	Rational Polymer Design of Stretchable Poly(ionic liquid) Membranes for Dual Applications. 2021 , 54, 896-905	7
105	Thermally-Stable Imidazolium Dicationic Ionic Liquids with Pyridine Functional Groups. 2020 , 8, 8762-8772	18
104	Ionic liquid lubricants: when chemistry meets tribology. 2020 , 49, 7753-7818	75
103	Extraction of Biofuels and Biofeedstocks Using Ionic Liquids. 2009 , 371-379	2
102	Thermal stability of imidazolium-based ionic liquids. 2016 , 4, 51-64	12
101	The Ideal Quenching Medium? Characterisation of Ionic Liquids for Heat Treatment of Metallic Components. 2013 , 68, 214-223	10
100	Synthesis of Mesoporous Alumina Assisted by Room Temperature Ionic Liquid. 2011 , 26, 134-138	1
99	Density and Viscosity Estimation of 1-hexyl-3-methyl Imidazolium Based Ionic Liquids with [BF ₄] and [PF ₆] Anions at High Pressures. 2011 , 11, 2452-2455	2

98	Comparison Study of Emim [Tf2N] and Emim [CF3SO3] Effects on Polyethersulfone Membrane for CO2/CH4 Separation. 2014 , 14, 1083-1087	1
97	Ionic Liquids as Benign Solvents for the Extraction of Aromatics. 2012 , 33, 3241-3247	18
96	Study of CO2 Absorption Characteristic and Synthesis of 1-(2-methoxyethyl)-3-methylimidazolium Methanesulfonate Ionic Liquid. 2012 , 50, 35-40	7
95	Fast and non-destructive determination of water content in ionic liquids at varying temperatures by Raman spectroscopy and multivariate regression analysis. 2021 , 1188, 339164	0
94	Ionic liquids as diathermic fluids for solar trough collectors Technology: A corrosion study. 2008 , 669-673	
93	Ionic Liquids - Pages 471-477. 2009 , 471-477	
92	Synthesis of Organic Electroactive Materials in Ionic Liquids. 2011 , 117-143	
91	CO2 Efflux from Cleared Mangrove Peat. 2014 , 291-300	
90	Extraction of Caffeic Acid and Rosmarinic Acid from <i>Zostera marina</i> Based on Ionic Liquids and Deep Eutectic Solvent. 2014 , 52, 481-485	2
89	Chapter 25 Ionic Liquid Lubricants: Basics and Applications. 2019 , 1037-1054	
88	Elucidating structure-property relationships in imidazolium-based halide ionic liquids: crystal structures and thermal behavior. 2020 , 235, 365-374	1
87	Solvation properties of l-lysine and l-arginine in aqueous solutions of 1-heptyl-3-methylimidazolium tetrafluoroborate [C7mim][BF4] at different temperatures. 2021 , 117996	0
86	Reactivity of Ionic Liquids: Reductive Effect of [C C im]BF to Form Particles of Red Amorphous Selenium and Bi Se from Oxide Precursors. 2021 , 10, 125-140	0
85	Photopolymerization of ionic liquids in flexible microporous aramids for ion conductive solid polyelectrolytes. 2022 , 422, 113571	0
84	Ion fragmentation study of [EMMIM][TFSI], [EMIM][OTf] and [EMIM][DCA] by vacuum ultraviolet light. 2022 , 471, 116732	1
83	Encyclopedia of Ionic Liquids. 2020 , 1-12	
82	Determination of quinclorac by adsorptive stripping voltammetry in rice samples without sample pretreatment. 2021 , 56, 828-837	2
81	The Composition of Saturated Vapor over 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid: A Multi-Technique Study of the Vaporization Process. 2021 , 23,	0

80	Developing Structural First Principles for Alkylated Triphenylphosphonium-Based Ionic Liquids. 2021 , 6, 32285-32296	0
79	Highly efficient absorption of methyl tert-butyl ether with ionic liquids. 2021 , 282, 120108	1
78	Cation effects on the properties of halloysite-confined bis(trifluoromethylsulfonyl)imide based ionic liquids.. 2021 , 11, 38605-38615	
77	Solubility behavior of CO ₂ and H ₂ S in 1-benzyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquid. 2022 , 167, 106721	2
76	A Novel SBA Nano-Silica Immobilised Basic Ionic liquid Catalyst for One Pot Synthesis of 2-Amino-4H-chromene Derivatives at Room Temperature in Aqueous Media. 1	
75	Impact of confinement and polarizability on dynamics of ionic liquids.. 2022 , 156, 064703	0
74	Four Phosphonium-based Ionic Liquids. Synthesis, Characterization and Electrochemical Performance as Electrolytes for Silicon Anodes. 2022 , 7,	1
73	Experimental Investigation on Thermophysical Properties of Ammonium-Based Protic Ionic Liquids and Their Potential Ability towards CO Capture.. 2022 , 27,	0
72	Pure Chitosan-Based Fibers Manufactured by a Wet Spinning Lab-Scale Process Using Ionic Liquids.. 2022 , 14,	0
71	Enantioselective Biginelli Reaction Catalyzed by (L)-Prolinamide Containing Imidazolium Ionic Liquid. 2022 , 7,	1
70	Specializing liquid electrolytes and carbon-based materials in EDLCs for low-temperature applications. 2022 , 68, 580-602	0
69	Thermophysical Study of Pyridinium-Based Ionic Liquids Sharing Ions. <i>Journal of Chemical & Engineering Data</i> ,	2.8
68	Mobility and phase transitions of the [EMIm ⁺][FSI ⁻] ionic liquid confined in micro- and mesoporous carbons. 2022 , 10, 7928-7940	0
67	Study of an Ionic Fluid on the Electrochemical Test of A36 Carbon Steel Ingot. 2022 , 10, 29-43	
66	Structural, dynamical, and electronic properties of the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide.. 2022 ,	0
65	A modeling approach for estimating hydrogen sulfide solubility in fifteen different imidazole-based ionic liquids.. 2022 , 12, 4415	3
64	Hydrate Promoters in Gas Hydrate-based Desalination. 2022 , 55-76	0
63	Numerical Comparison between Phase Change Temperatures of Latent Heat Storage Material Na ₂ HPO ₄ Aqueous Solutions Measured by Thermal Cycling and Phase Diagram Values for the Na ₂ HPO ₄ /H ₂ O System. 2022 , 48, 62-69	1

- 62 Ionic Liquid Melting Points: StructureProperty Analysis and New Hybrid Group Contribution Model. **2022**, 61, 4683-4706 0
- 61 Hofmann-MOF derived Nanoball assembled by FeNi Alloy confined in Carbon Nanotubes as a Magnetic Catalyst for activating Peroxydisulfate to Degrade an Ionic Liquid. **2022**, 120945 1
- 60 Thermodynamic study of binary mixtures of 2-propanol with ionic liquids, 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide, 1-hexyl-3-methylimidazolium trifluoromethanesulfonate and triethylhexylammonium bis(trifluoromethylsulfonyl)imide. **2022**, 106789 0
- 59 Appearance of an Electrochemical Oxidative Peak of Gold/Bis(trifluoromethylsulfonyl)amide-based Ionic Liquid Interfaces at Elevated Temperatures. **2022**, 51, 461-464 0
- 58 An overview of carotenoid extractions using green solvents assisted by Z-isomerization. **2022**, 123, 145-160 4
- 57 C2 methylation effect on the cohesive interaction of trifluoromethanesulfonate alkyimidazolium ionic liquidC2 methylation effect on the cohesive interaction of trifluoromethanesulfonate alkyimidazolium ionic liquids. **2022**, 353, 118772 1
- 56 Experimental performance of a three-fluid desiccant contactor using a novel ionic liquid. **2022**, 210, 118343 0
- 55 Strained carbocycle based hypergolic ionic fuels with the improved energy capacity. **2022**, 231, 107248 0
- 54 Imidazolium room-temperature ionic liquids with alkoxymethyl substituent: A quest for improved microbiological selectivity. **2022**, 442, 136062 0
- 53 Sustainability Assessment of Alternative Synthesis Routes to Aprotic Ionic Liquids: The Case of 1-Butyl-3-methylimidazolium Tetrafluoroborate for Fuel Desulfurization. **2022**, 10, 323-331 0
- 52 Modifying the Electrocatalytic Selectivity of Oxidation Reactions with Ionic Liquids. 0
- 51 Evaluation of thermal decomposition characteristics and potential hazards of 1-n-butyl-3-methylimidazolium dicyanamide by STA, ARC, and TG-FTIR. 1 0
- 50 Modifying the Electrocatalytic Selectivity of Oxidation Reactions with Ionic Liquids.. **2022**, 0
- 49 Dicationic Bis-Pyridinium Hydrazone-Based Amphiphiles Encompassing Fluorinated Counteranions: Synthesis, Characterization, TGA-DSC, and DFT Investigations.. **2022**, 27, 0
- 48 Analysis of the Electric Double Layer Structure Formed in an Ionic Liquid Using Neutron Reflectivity. **2022**, 1, 020503 0
- 47 The impact of the cation alkyl chain length on the wettability of alkyimidazolium-based ionic liquids at the nanoscale. 2
- 46 Role of C2 methylation and anion type on the physicochemical and thermal properties of imidazolium-based ionic liquids. **2022**, 15, 103963 0
- 45 Biobutanol separation using ionic liquids as a green solvent. **2022**, 291-322 0

44	Analysis of microwave-assisted heating and water extraction from imidazolium and phosphonium based ionic liquids. 2022 , 714, 179262	
43	Thermal Stability Limits of Imidazolium, Piperidinium, Pyridinium, and Pyrrolidinium Ionic Liquids Immobilized on Metal Oxides. 2022 , 119804	1
42	Microwave-assisted synthesis of iridium oxide and palladium nanoparticles supported on a nitrogen-rich covalent triazine framework as superior electrocatalysts for the hydrogen evolution and oxygen reduction reaction. 10,	1
41	Advances on potential-driven growth of metal crystals from ionic liquids. 2022 , 68, 100580	
40	Preface to the Joan Brennecke Festschrift. 2022 , 67, 1793-1795	
39	Preface to the Joan Brennecke Festschrift. 2022 , 61, 12061-12063	
38	Thermal decomposition and volatility of ionic liquids: Factors, evaluation and strategies. 2022 , 366, 120336	2
37	Physical and electrochemical properties of new structurally flexible imidazolium phosphate ionic liquids. 2022 , 24, 23289-23300	0
36	Effect of Alkyl Chain Elongation on Thermophysical Properties of 1-Alkyl-3-vinylimidazolium Bromide-Based Ionic Liquids and Salts.	0
35	Enzyme Hydration: How to Retain Resistance in Ionic Liquids.	0
34	Implementation of Artificial Neural Networks in the assessment of CO ₂ solubility in deep eutectic and ionic liquids solvents (Performance and cost comparison. 2022 , 100007	0
33	Experimental and theoretical heat capacity of mono- and dicationic long alkyl chain imidazolium-based ionic liquids. 2022 , 2, 100048	0
32	Absorption of SO ₂ from Flue Gas by Functional Ionic Liquids. 2015 , 07, 268-279	0
31	Multifunctional, Bicontinuous, Flexible Comb Copolymer Electrolyte for Solid-state Supercapacitors. 2022 , 140386	0
30	Water-Pluronic-Ionic Liquid Based Microemulsions: Preparation, Characterization and Application as Micro-reactor for Enhanced Catalytic Activity of Cytochrome-c. 2022 , 113034	0
29	Designing Difunctional Promoters for Hypergolic Ignitions of Green Bipropellants Combining Ionic Liquids with H ₂ O ₂ .	1
28	Synthesis and Physical Properties of Tunable Aryl Alkyl Ionic Liquids (TAAILs) Comprising Imidazolium Cations Blocked with Methyl-, Propyl- and Phenyl-Groups at the C2 Position.	0
27	Removal of propionic acid from aqueous solutions by tributyl phosphate in a room-temperature ionic liquid using Box-Behnken design. 2022 ,	2

- 26 Iron-Based Ionic Liquids for Magnetic Resonance Imaging Application. ○
- 25 Bridging the crystal and solution structure of a series of lipid-inspired ionic liquids. ○
- 24 The effect of ionic liquids on the nucleation and growth of perylene films obtained by vapor deposition. 3
- 23 Thermal and Electrochemical Properties of Ionic Liquids Bearing Allyl Group with Sulfonate-Based Anions Application Potential in Epoxy Resin Curing Process. **2023**, 28, 709 ○
- 22 Flexible human-applicable infrared camouflage materials with temperature and emissivity tunability. **2023**, 233, 109920 ○
- 21 Thermodynamics of 1-ethyl-3-methylimidazolium and 1-butyl-3-methylimidazolium chlorides. **2023**, 179, 107000 ○
- 20 Density of Ionic Liquids. **2022**, 240-250 ○
- 19 Volumetric Properties and Aggregation Behavior of Aqueous Solutions of Novel 1-Decyl-3-Methylimidazolium-Based Amino Acid Ionic Liquids. ○
- 18 Direct growth of nano-worm-like Cu₂S on copper mesh as a hierarchical 3D catalyst for Fenton-like degradation of an imidazolium room-temperature ionic liquid in water. **2023**, 638, 39-53 ○
- 17 Electrolytic conductivity measurements for ten ionic liquids. **2023**, 3, 100050 ○
- 16 Investigations for the use and recyclability of the ionic liquid [MTBDH][AcO] as a solvent in air-gap-wet spinning process. ○
- 15 Weak intra and intermolecular interactions via aliphatic hydrogen bonding in piperidinium based ionic Liquids: Experimental, topological and molecular dynamics studies. **2023**, 375, 121354 ○
- 14 Thermodynamic model for CO₂ absorption in imidazolium-based ionic liquids using cubic plus association equation of state. **2023**, 378, 121587 ○
- 13 An overview process analysis of the aromatic-aliphatic separation by liquid-liquid extraction with ionic liquids. **2023**, 316, 123848 ○
- 12 Polymer Blends Based on 1-Hexadecyl-3-methyl Imidazolium 1,3-Dimethyl 5-Sulfoisophthalate Ionic Liquid: Thermo-Mechanical, Surface Morphology and Antibacterial Properties. **2023**, 15, 970 ○
- 11 Screening of Pure ILs and DESs for CO₂ Separation, N₂O Separation, and H₂S Separation Processes. **2023**, 2023, 1-20 ○
- 10 Ionic Liquids: Advances and Applications in Phase Transfer Catalysis. **2023**, 13, 474 1
- 9 Extraction Separation of Aromatics. **2023**, 209-267 ○

- 8 Exploring the influence of the type of anion in imidazolium ionic liquids on its thermal stability. ○
- 7 Ionogels: recent advances in design, material properties and emerging biomedical applications. **2023**, 52, 2497-2527 ○
- 6 Influence of the Deposition Rate and Substrate Temperature on the Morphology of Thermally Evaporated Ionic Liquids. **2023**, 8, 105 ○
- 5 Effects of Liquid Density on the Gas-Liquid Interaction of the Ionic Liquid Compressor for Hydrogen Storage. **2023**, 16, 3193 ○
- 4 Evidence for Ion Association at the Gas-Liquid Interface of the Mixture of 1-Butyl-3-methylimidazolium Hexafluorophosphate and Benzonitrile: A Sum Frequency Generation Spectroscopy and Surface Tension Study. **2023**, 127, 3496-3504 ○
- 3 CO₂ Capture Improvement in Polyetherimide Membranes: Effect of Ionic Liquid on the Molecular Mobility. 1-14 ○
- 2 Flexible Polymer-Ionic Liquid Films for Supercapacitor Applications. **2023**, 9, 338 ○
- 1 Recent Advancements in Hydrometallurgy: Solubility and Separation. ○