Johan Jacquemin

List of Publications by Year in Descending Order

158 papers	6,336 citations	43 h-index	74 g-index
167 ext. papers	7,130 ext. citations	5 avg, IF	6.02 L-index

#	Paper	IF	Citations
158	Optimizing Host–Guest Selectivity for Ethylbenzene Capture Toward Superior Styrene Purification. *Chemistry of Materials*, **2022**, 34, 197-202	9.6	0
157	Cytotoxicity of Ionic Liquids on Normal Human Dermal Fibroblasts in the Context of Their Present and Future Applications. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7649-7657	8.3	6
156	Combined Experimental and Theoretical Study of the Competitive Absorption of CO and NO by a Superbase Ionic Liquid. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7578-7586	8.3	3
155	Carbon Nanotube-Based Ionanofluids for Efficient Energy Storage: Thermophysical Properties Determination and Advanced Data Analysis. *Industrial & Engineering Chemistry Research*, **2021**, 60, 7714-7728	3.9	1
154	Efficient Synthesis of Polysubstituted Furans through a Base-Promoted Oxacyclization of (Z)-2-En-4-yn-1-ols. *European Journal of Organic Chemistry*, **2021**, 2021, 3798-3806	3.2	1
153	Crosslinked carboxymethyl cellulose-hydroxyethyl cellulose hydrogel films for adsorption of cadmium and methylene blue from aqueous solutions. *Surfaces and Interfaces*, **2021**, 24, 101124	4.1	8
152	Type 3 Porous Liquids for the Separation of Ethane and Ethene. *ACS Applied Materials & Interfaces*, **2021**, 13, 932-936	9.5	8
151	Selective adsorptive separation of cyclohexane over benzene using thienothiophene cages. *Chemical Science*, **2021**, 12, 5315-5318	9.4	15
150	Good Reporting Practice for Thermophysical and Thermochemical Property Measurements (IUPAC Technical Report).. *Pure and Applied Chemistry*, **2021**, 93,	2.1	14
149	Efficient Synthesis of tert-Butyl 2,4-Dialkynylated and 2-Alkynylated-4-Arylated-1H-Imidazole-1-Carboxylate via Regioselective Sonogashira Cross-Coupling Reaction. *European Journal of Organic Chemistry*, **2021**, 2021, 4495-4507	3.2	1
148	Induced Protic Behaviour in Aprotonic Ionic Liquids by Anion Basicity for Efficient Carbon Dioxide Capture. *ChemPhysChem*, **2020**, 21, 1369-1374	3.2	6
147	Phosphoric acid-mediated green preparation of regenerated cellulose spheres and their use for all-cellulose cross-linked superabsorbent hydrogels. *International Journal of Biological Macromolecules*, **2020**, 162, 136-149	7.9	22
146	Phenylacetonitrile (CHCHCN) Ionic Liquid Blends as Alternative Electrolytes for Safe and High-Performance Supercapacitors. *Molecules*, **2020**, 25,	4.8	7
145	Guidelines for designing highly concentrated electrolytes for low temperature applications. *Chemical Communications*, **2020**, 56, 9830-9833	5.8	3
144	Type 3 porous liquids based on non-ionic liquid phases - a broad and tailorable platform of selective, fluid gas sorbents. *Chemical Science*, **2020**, 11, 2077-2084	9.4	38
143	Universal scaling behavior of entropy and conductivity in ionic liquids. *Journal of Molecular Liquids*, **2020**, 316, 113824	6	3
142	Tuning the dynamics of imidazolium-based ionic liquids via hydrogen bonding. I. The viscous regime. *Journal of Chemical Physics*, **2020**, 153, 194501	3.9	8

141	Industrial Applications of Ionic Liquids. *Molecules*, **2020**, 25,	4.8	87
140	Impact of ionic liquids on silver thermoplastic polyurethane composite membranes for propane/propylene separation. *Arabian Journal of Chemistry*, **2020**, 13, 404-415	5.9	5
139	(p,T) data of 1-butyl-3-methylimidazolium hexafluorophosphate. *Journal of Chemical Thermodynamics*, **2020**, 141, 105954	2.9	7
138	Comparative study of effect of alkyl chain length on thermophysical characteristics of five N-alkylpyridinium bis(trifluoromethylsulfonyl)imides with selected imidazolium-based ionic liquids. *Journal of Molecular Liquids*, **2019**, 278, 401-412	6	9
137	Peculiar relaxation dynamics of propylene carbonate derivatives. *Journal of Chemical Physics*, **2019**, 150, 044504	3.9	9
136	Using Thermodynamics to Assess the Molecular Interactions of Tetrabutylphosphonium Carboxylate–Water Mixtures. *Australian Journal of Chemistry*, **2019**, 72, 144	1.2	1
135	Impact of the aqueous pyrrolidinium hydrogen sulfate electrolyte formulation on transport properties and electrochemical performances for polyaniline-based supercapacitor. *Journal of Power Sources*, **2019**, 431, 162-169	8.9	9
134	Ionic liquid-based nanofluids (ionanofluids) for thermal applications: an experimental thermophysical characterization. *Pure and Applied Chemistry*, **2019**, 91, 1309-1340	2.1	22
133	Thermal Conductivity Enhancement Phenomena in Ionic Liquid-Based Nanofluids (Ionanofluids). *Australian Journal of Chemistry*, **2019**, 72, 21	1.2	19
132	Toward Designing "Sweet" Ionic Liquids Containing a Natural Terpene Moiety as Effective Wood Preservatives. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15628-15639	8.3	10
131	Effect of mixed anions on the transport properties and performance of an ionic liquid-based electrolyte for lithium-ion batteries. *Pure and Applied Chemistry*, **2019**, 91, 1361-1381	2.1	10
130	One-pot approach to access 2H-pyran-2-ones bearing an amino group via the Pd-catalyzed Sonogashira coupling of (Z)-3-iodovinylic esters followed by intramolecular iodocyclization. *Tetrahedron Letters*, **2019**, 60, 151087	2	4
129	Alternative Electrolytes for Li-Ion Batteries Using Glutaronitrile and 2-methylglutaronitrile with Lithium Bis(trifluoromethanesulfonyl) Imide. *Journal of the Electrochemical Society*, **2019**, 166, A3487-A3495	3.9	9
128	Supramolecular Self-Assembly of Nanoconfined Ionic Liquids for Fast Anisotropic Ion Transport. *Advanced Functional Materials*, **2019**, 29, 1905054	15.6	6
127	Tandem One-Pot Approach to N-Substituted Lactones by Carbon–Carbon Coupling Followed by 5-exo-dig or 6-endo-dig Cyclization: DFT Studies and Cyclization Mode. *European Journal of Organic Chemistry*, **2019**, 2019, 7439-7447	3.2	2
126	Research papers from the 18th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP18). *Pure and Applied Chemistry*, **2019**, 91, 1277-1278	2.1	
125	Investigating the Effect of NO on the Capture of CO2 Using Superbase Ionic Liquids for Flue Gas Applications. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3567-3574	8.3	20
124	A new insight into pure and water-saturated quaternary phosphonium-based carboxylate ionic liquids: Density, heat capacity, ionic conductivity, thermogravimetric analysis, thermal conductivity and viscosity. *Journal of Chemical Thermodynamics*, **2018**, 121, 97-111	2.9	37

123	Absorption refrigeration cycles based on ionic liquids: Refrigerant/absorbent selection by thermodynamic and process analysis. *Applied Energy*, **2018**, 213, 179-194	10.7	61
122	Understanding the heat capacity enhancement in ionic liquid-based nanofluids (ionanofluids). *Journal of Molecular Liquids*, **2018**, 253, 326-339	6	37
121	Further development of the predictive models for physical properties of pure ionic liquids: Thermal conductivity and heat capacity. *Journal of Chemical Thermodynamics*, **2018**, 118, 1-15	2.9	30
120	COSMO-based/Aspen Plus process simulation of the aromatic extraction from pyrolysis gasoline using the {[4empy][NTf2] + [emim][DCA]} ionic liquid mixture. *Separation and Purification Technology*, **2018**, 190, 211-227	8.3	45
119	Structure and dynamics of ionic liquids: general discussion. *Faraday Discussions*, **2018**, 206, 291-337	3.6	6
118	Electrochemistry: general discussion. *Faraday Discussions*, **2018**, 206, 405-426	3.6	8
117	Ionic liquids at interfaces: general discussion. *Faraday Discussions*, **2018**, 206, 549-586	3.6	
116	Understanding the Competitive Gas Absorption of CO2 and SO2 in Superbase Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17033-17042	3.9	16
115	Highly Selective Reduction of □□Unsaturated Aldehydes and Ketones under Ambient Conditions using Tetraalkylphosphonium-based Ionic Liquids. *ChemistrySelect*, **2018**, 3, 11706-11711	1.8	5
114	Acyclic and Cyclic Alkyl and Ether-Functionalised Sulfonium Ionic Liquids Based on the [TFSI] and [FSI] Anions as Potential Electrolytes for Electrochemical Applications. *ChemPhysChem*, **2018**, 19, 3226	3.2	8
113	Electrolytes for Li□O2 Batteries **2018**, 65-94		
112	Isobaric and Isochoric Heat Capacities of Imidazolium-Based and Pyrrolidinium-Based Ionic Liquids as a Function of Temperature: Modeling of Isobaric Heat Capacity. *Industrial & Engineering Chemistry Research*, **2017**, 56, 2592-2606	3.9	30
111	Liquid□liquid Equilibria of Ionic Liquids□Water□Acetic Acid Mixtures. *Journal of Chemical & Engineering Data*, **2017**, 62, 653-664	2.8	20
110	Speed of Sound and Ultrasound Absorption in Ionic Liquids. *Chemical Reviews*, **2017**, 117, 3883-3929	68.1	49
109	Ionic liquids for post-combustion CO2 capture by physical absorption: Thermodynamic, kinetic and process analysis. *International Journal of Greenhouse Gas Control*, **2017**, 61, 61-70	4.2	75
108	How is charge transport different in ionic liquids? The effect of high pressure. *Physical Chemistry Chemical Physics*, **2017**, 19, 14141-14147	3.6	13
107	The development of the UNIFAC-CONDUCT model as a novel approach for the estimation of the conductivity of pure ionic liquids. *Fluid Phase Equilibria*, **2017**, 449, 60-67	2.5	2
106	Communication: Inflection in the pressure dependent conductivity of the protic ionic liquid C8HIM NTf2. *Journal of Chemical Physics*, **2017**, 146, 181102	3.9	5

105	Thermophysical and Electrochemical Properties of Ethereal Functionalised Cyclic Alkylammonium-based Ionic Liquids as Potential Electrolytes for Electrochemical Applications. *ChemPhysChem*, **2017**, 18, 2040-2057	3.2	24
104	New method based on the UNIFAC-VISCO model for the estimation of dynamic viscosity of (ionic liquid + molecular solvent) binary mixtures. *Fluid Phase Equilibria*, **2017**, 449, 41-51	2.5	6
103	Sustainable Cyclic Carbonate Production, Utilizing Carbon Dioxide and Azolate Ionic Liquids. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5635-5641	8.3	51
102	Group Contribution Method for Evaluation of Volumetric Properties of Ionic Liquids Using Experimental Data Recommended by Mathematical Gnostics. *Industrial & Engineering Chemistry Research*, **2017**, 56, 6827-6840	3.9	9
101	Physical□hemical Characterization of Binary Mixtures of 1-Butyl-1-methylpyrrolidinium Bis{(trifluoromethyl)sulfonyl}imide and Aliphatic Nitrile Solvents as Potential Electrolytes for Electrochemical Energy Storage Applications. *Journal of Chemical & Engineering Data*, **2017**, 62, 376-390	2.8	29
100	An introduction to zwitterionic salts. *Green Chemistry*, **2017**, 19, 4007-4011	10	10
99	A Fluctuation Equation of State for Prediction of High-Pressure Densities of Ionic Liquids. *Scientific Reports*, **2017**, 7, 5563	4.9	12
98	Liquid Phase Behavior in Systems of 1-Butyl-3-alkylimidazolium bis{(trifluoromethyl)sulfonyl}imide Ionic Liquids with Water: Influence of the Structure of the C5 Alkyl Substituent. *Journal of Solution Chemistry*, **2017**, 46, 1456-1474	1.8	10
97	Physical and Electrochemical Investigations into Blended Electrolytes Containing a Glyme Solvent and Two Bis{(trifluoromethyl)sulfonyl}imide-Based Ionic Liquids. *Journal of the Electrochemical Society*, **2017**, 164, H5124-H5134	3.9	7
96	Factors affecting bubble size in ionic liquids. *Physical Chemistry Chemical Physics*, **2017**, 19, 14306-14318	3.6	8
95	Phase behaviour and thermodynamics: general discussion. *Faraday Discussions*, **2017**, 206, 113-139	3.6	4
94	An ether-functionalised cyclic sulfonium based ionic liquid as an electrolyte for electrochemical double layer capacitors. *Journal of Power Sources*, **2016**, 326, 549-559	8.9	22
93	The use of binary mixtures of 1-butyl-1-methylpyrrolidinium bis{(trifluoromethyl)sulfonyl}imide and aliphatic nitrile solvents as electrolyte for supercapacitors. *Electrochimica Acta*, **2016**, 220, 146-155	6.7	37
92	High Pressure Speed of Sound and Related Thermodynamic Properties of 1-Alkyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imides (from 1-Propyl- to 1-Hexyl-). *Journal of Chemical & Engineering Data*, **2016**, 61, 3794-3805	2.8	15
91	New Method for the Estimation of Viscosity of Pure and Mixtures of Ionic Liquids Based on the UNIFAC□VISCO Model. *Journal of Chemical & Engineering Data*, **2016**, 61, 2160-2169	2.8	28
90	Temperature- and Pressure-Induced Structural Changes of Cobalt(II) in a Phosphonium-Based Ionic Liquid. *Journal of Physical Chemistry C*, **2016**, 120, 10156-10161	3.8	10
89	Effect of the Presence of MEA on the CO2 Capture Ability of Superbase Ionic Liquids. *Journal of Chemical & Engineering Data*, **2016**, 61, 1092-1100	2.8	22
88	A class of efficient short-chain fluorinated catanionic surfactants. *Green Chemistry*, **2016**, 18, 1234-1239	10	36

87	Ultrasonic Relaxation Study of 1-Alkyl-3-methylimidazolium-Based Room-Temperature Ionic Liquids: Probing the Role of Alkyl Chain Length in the Cation. *Journal of Physical Chemistry B*, **2016**, 120, 3569-81	3.4	23
86	The Influence of Cation Structure on the Chemical□Physical Properties of Protic Ionic Liquids. *Journal of Physical Chemistry C*, **2016**, 120, 8525-8533	3.8	27
85	Effect of cation structure on the oxygen solubility and diffusivity in a range of bis{(trifluoromethyl)sulfonyl}imide anion based ionic liquids for lithium-air battery electrolytes. *Physical Chemistry Chemical Physics*, **2016**, 18, 11251-62	3.6	33
84	Techno-Economic Feasibility of Selective CO2 Capture Processes from Biogas Streams Using Ionic Liquids as Physical Absorbents. *Energy & Fuels*, **2016**, 30, 5052-5064	4.1	47
83	Mixing Enthalpy for Binary Mixtures Containing Ionic Liquids. *Chemical Reviews*, **2016**, 116, 6075-106	68.1	71
82	New Method Based on the UNIFAC□VISCO Model for the Estimation of Ionic Liquids Viscosity Using the Experimental Data Recommended by Mathematical Gnostics. *Journal of Chemical & Engineering Data*, **2016**, 61, 3908-3921	2.8	8
81	Synthesis and Thermophysical Properties of Ether-Functionalized Sulfonium Ionic Liquids as Potential Electrolytes for Electrochemical Applications. *ChemPhysChem*, **2016**, 17, 3992-4002	3.2	21
80	High-pressure phase equilibrium in the {carbon dioxide (1) + 1-chloropropane (2)} binary system. *Journal of Chemical Thermodynamics*, **2015**, 91, 165-171	2.9	13
79	CO2 capture and electrochemical conversion using superbasic [P66614][124Triz]. *Faraday Discussions*, **2015**, 183, 389-400	3.6	17
78	Can the scaling behavior of electric conductivity be used to probe the self-organizational changes in solution with respect to the ionic liquid structure? The case of [C8MIM][NTf2]. *Soft Matter*, **2015**, 11, 6520-6	3.6	21
77	CO2 Capture in Wet and Dry Superbase Ionic Liquids. *Journal of Solution Chemistry*, **2015**, 44, 511-527	1.8	49
76	Introduction on Special Issue: Ionic Liquids. *Journal of Solution Chemistry*, **2015**, 44, 379-381	1.8	2
75	Thermal Properties of Alkyl-triethylammonium bis({)(trifluoromethyl)sulfonyl(})imide Ionic Liquids. *Journal of Solution Chemistry*, **2015**, 44, 790-810	1.8	23
74	Acoustic and Volumetric Properties of Diluted Solutions of Water in Ionic Liquids. *Journal of Solution Chemistry*, **2015**, 44, 824-837	1.8	13
73	On the Performances of Ionic Liquid-Based Electrolytes for Li-NMC Batteries. *Journal of Solution Chemistry*, **2015**, 44, 769-789	1.8	12
72	The addition of CO□to four superbase ionic liquids: a DFT study. *Physical Chemistry Chemical Physics* , **2015**, 17, 28674-82	3.6	16
71	Solid□liquid equilibria in systems [Cxmim][Tf2N] with diethylamine. *Pure and Applied Chemistry*, **2015**, 87, 453-460	2.1	4
70	Development of a diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) cell for the in situ analysis of co-electrolysis in a solid oxide cell. *Faraday Discussions*, **2015**, 182, 97-111	3.6	12

69	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. *Macromolecules*, **2015**, 48, 8660-8666	5.5	42
68	Mixtures of Azepanium Based Ionic Liquids and Propylene Carbonate as High Voltage Electrolytes for Supercapacitors. *Electrochimica Acta*, **2015**, 153, 426-432	6.7	39
67	Azepanium-based ionic liquids as green electrolytes for high voltage supercapacitors. *Journal of Power Sources*, **2015**, 273, 931-936	8.9	49
66	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. *Angewandte Chemie*, **2015**, 127, 14370-14374	3.6	34
65	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. *Angewandte Chemie - International Edition*, **2015**, 54, 14164-8	16.4	110
64	Thermodynamic Properties of Dichloromethane, Bromochloromethane, and Dibromomethane under Elevated Pressure: Experimental Results and SAFT-VR Mie Predictions. *Industrial & Engineering Chemistry Research*, **2015**, 54, 720-730	3.9	11
63	Enhancing Liquid-Phase Olefin/Paraffin Separations Using Novel Silver-Based Ionic Liquids. *Journal of Chemical & Engineering Data*, **2015**, 60, 28-36	2.8	19
62	Viscosity and carbon dioxide solubility for LiPF6, LiTFSI, and LiFAP in alkyl carbonates: lithium salt nature and concentration effect. *Journal of Physical Chemistry B*, **2014**, 118, 3973-80	3.4	37
61	Structuring reductive media containing protic ionic liquids and their application to the formation of metallic nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 445, 1-11	5.1	14
60	Structure and thermal properties of salicylate-based-protic ionic liquids as new heat storage media. COSMO-RS structure characterization and modeling of heat capacities. *Physical Chemistry Chemical Physics*, **2014**, 16, 3549-57	3.6	30
59	On the scaling behavior of electric conductivity in [C4mim][NTf2]. *Physical Chemistry Chemical Physics*, **2014**, 16, 20444-50	3.6	26
58	Tunable thermomorphism and applications of ionic liquid analogues of Girard's reagents. *Green Chemistry*, **2014**, 16, 4115-4121	10	19
57	Statistical Refinement and Fitting of Experimental Viscosity-to-Temperature Data in Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2014**, 53, 10475-10484	3.9	23
56	Physicochemical Investigation of Adiponitrile-Based Electrolytes for Electrical Double Layer Capacitor. *Journal of Physical Chemistry C*, **2014**, 118, 14107-14123	3.8	39
55	Deep Eutectic Solvents Based on N-Methylacetamide and a Lithium Salt as Electrolytes at Elevated Temperature for Activated Carbon-Based Supercapacitors. *Journal of Physical Chemistry C*, **2014**, 118, 4033-4042	3.8	64
54	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction. *Journal of Chemical Thermodynamics*, **2014**, 79, 49-60	2.9	14
53	Excess molar volumes and excess molar enthalpies in binary systems N-alkyl-triethylammonium bis(trifluoromethylsulfonyl)imide+methanol. *Fluid Phase Equilibria*, **2014**, 363, 156-166	2.5	17
52	Use of water in aiding olefin/paraffin (liquid+liquid) extraction via complexation with a silver bis(trifluoromethylsulfonyl)imide salt. *Journal of Chemical Thermodynamics*, **2014**, 77, 230-240	2.9	5

51	Tunable gold nanoparticles shape and size in reductive and structuring media containing protic ionic liquids. *Ionics*, **2013**, 19, 1783-1790	2.7	10
50	Viscous Behavior of Imidazolium-Based Ionic Liquids. *Industrial & Engineering Chemistry Research*, **2013**, 52, 16774-16785	3.9	52
49	High pressure CO2 absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. *Fluid Phase Equilibria*, **2013**, 351, 74-86	2.5	46
48	A comparative study on the thermophysical properties for two bis[(trifluoromethyl)sulfonyl]imide-based ionic liquids containing the trimethyl-sulfonium or the trimethyl-ammonium cation in molecular solvents. *Journal of Physical Chemistry B*, **2013**, 117, 1389-402	3.4	38
47	Deep eutectic solvents based on N-methylacetamide and a lithium salt as suitable electrolytes for lithium-ion batteries. *Physical Chemistry Chemical Physics*, **2013**, 15, 20054-63	3.6	90
46	Are alkyl sulfate-based protic and aprotic ionic liquids stable with water and alcohols? A thermodynamic approach. *Journal of Physical Chemistry B*, **2013**, 117, 1938-49	3.4	28
45	Comparative study on transport properties for LiFAP and LiPF6 in alkyl-carbonates as electrolytes through conductivity, viscosity and NMR self-diffusion measurements. *Electrochimica Acta*, **2013**, 114, 95-104	6.7	43
44	Low pressure carbon dioxide solubility in lithium-ion batteries based electrolytes as a function of temperature. Measurement and prediction. *Journal of Chemical Thermodynamics*, **2013**, 61, 32-44	2.9	24
43	Comparative Performances of Birnessite and Cryptomelane MnO2 as Electrode Material in Neutral Aqueous Lithium Salt for Supercapacitor Application. *Journal of Physical Chemistry C*, **2013**, 117, 7408-7422	3.8	69
42	Optimized ionic liquids for toluene absorption. *AICHE Journal*, **2013**, 59, 1648-1656	3.6	70
41	Comparative Study on Performances of Trimethyl-Sulfonium and Trimethyl-Ammonium Based Ionic Liquids in Molecular Solvents as Electrolyte for Electrochemical Double Layer Capacitors. *Journal of Physical Chemistry C*, **2013**, 117, 10315-10325	3.8	39
40	Physical properties of a new Deep Eutectic Solvent based on lithium bis[(trifluoromethyl)sulfonyl]imide and N-methylacetamide as superionic suitable electrolyte for lithium ion batteries and electric double layer capacitors. *Electrochimica Acta*, **2013**, 102, 120-126	6.7	74
39	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid+propylene carbonate) binary mixture. *Journal of Chemical Thermodynamics*, **2013**, 59, 10-19	2.9	96
38	Transport properties investigation of aqueous protic ionic liquid solutions through conductivity, viscosity, and NMR self-diffusion measurements. *Journal of Physical Chemistry B*, **2012**, 116, 4228-38	3.4	61
37	Low pressure carbon dioxide solubility in pure electrolyte solvents for lithium-ion batteries as a function of temperature. Measurement and prediction. *Journal of Chemical Thermodynamics*, **2012**, 50, 71-79	2.9	33
36	Mutual Solubilities of Ammonium-Based Ionic Liquids with Water and with Water/Methanol Mixture. *Procedia Engineering*, **2012**, 42, 1229-1241		13
35	Comments and Additional Work on High-Pressure Volumetric Properties of Imidazolium-Based Ionic Liquids: Effect of the Anion *Journal of Chemical & Engineering Data*, **2012**, 57, 2409-2414	2.8	8
34	Phase Equilibria of Binary and Ternary Systems Containing ILs, Dodecane, and Cyclohexanecarboxylic Acid. *Separation Science and Technology*, **2012**, 47, 312-324	2.5	13

33	Interfacial Properties of LiTFSI and LiPF6-Based Electrolytes in Binary and Ternary Mixtures of Alkylcarbonates on Graphite Electrodes and Celgard Separator. *Industrial & Engineering Chemistry Research*, **2012**, 51, 5240-5245	3.9	34
32	Thermophysical Properties of Ammonium-Based Bis{(trifluoromethyl)sulfonyl}imide Ionic Liquids: Volumetric and Transport Properties. *Journal of Chemical & Engineering Data*, **2012**, 57, 2227-2235	2.8	63
31	Phase behaviour, interactions, and structural studies of (amines+ionic liquids) binary mixtures. *ChemPhysChem*, **2012**, 13, 1825-35	3.2	22
30	Physico-Chemical Properties of Non-Newtonian Shear Thickening Diisopropyl-ethylammonium-Based Protic Ionic Liquids and Their Mixtures with Water and Acetonitrile. *Journal of Chemical & Engineering Data*, **2011**, 56, 556-564	2.8	32
29	Volumetric properties and enthalpies of solution of alcohols CkH2k+1OH (k=1, 2, 6) in 1-methyl-3-alkylimidazolium bis(trifluoromethylsulfonyl)imide {[C1CnIm][NTf2] n=2, 4, 6, 8, 10} ionic liquids. *Journal of Chemical Thermodynamics*, **2011**, 43, 1708-1718	2.9	29
28	Physicochemical characterization of morpholinium cation based protic ionic liquids used as electrolytes. *Journal of Physical Chemistry B*, **2010**, 114, 1757-66	3.4	61
27	Volumetric Properties, Viscosities, and Isobaric Heat Capacities of Imidazolium Octanoate Protic Ionic Liquid in Molecular Solvents. *Journal of Chemical & Engineering Data*, **2010**, 55, 5719-5728	2.8	57
26	Thermophysical properties of ionic liquids. *Topics in Current Chemistry*, **2010**, 290, 185-212		80
25	Thermophysical properties of ionic liquids. *ACS Symposium Series*, **2010**, 43-60	0.4	3
24	Prediction of Gas Solubility using COSMOthermX. *ACS Symposium Series*, **2010**, 359-383	0.4	2
23	Volumetric properties, viscosity and refractive index of the protic ionic liquid, pyrrolidinium octanoate, in molecular solvents. *Journal of Chemical Thermodynamics*, **2010**, 42, 834-845	2.9	123
22	Influence of water on the carbon dioxide absorption by 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide. *Fluid Phase Equilibria*, **2010**, 294, 98-104	2.5	45
21	Transport properties of protic ionic liquids, pure and in aqueous solutions: Effects of the anion and cation structure. *Fluid Phase Equilibria*, **2010**, 297, 13-22	2.5	50
20	Aggregation behavior in water of new imidazolium and pyrrolidinium alkycarboxylates protic ionic liquids. *Journal of Colloid and Interface Science*, **2009**, 340, 104-11	9.3	95
19	Liquid densities, heat capacities, refractive index and excess quantities for {protic ionic liquids+water} binary system. *Journal of Chemical Thermodynamics*, **2009**, 41, 799-808	2.9	79
18	Liquid–liquid miscibility and volumetric properties of aqueous solutions of ionic liquids as a function of temperature. *Journal of Chemical Thermodynamics*, **2009**, 41, 1206-1214	2.9	57
17	Evaluation of Gas Solubility Prediction in Ionic Liquids using COSMOthermX. *Journal of Chemical & Engineering Data*, **2009**, 54, 2005-2022	2.8	89
16	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. *Journal of Chemical & Engineering Data*, **2008**, 53, 2133-2143	2.8	124

15	Heat Capacities of Ionic Liquids as a Function of Temperature at 0.1 MPa. Measurement and Prediction. *Journal of Chemical & Engineering Data*, **2008**, 53, 2148-2153	2.8	143
14	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. *Journal of Chemical & Engineering Data*, **2008**, 53, 716-726	2.8	218
13	Thermophysical properties, low pressure solubilities and thermodynamics of solvation of carbon dioxide and hydrogen in two ionic liquids based on the alkylsulfate anion. *Green Chemistry*, **2008**, 10, 944	10	57
12	Large deformation of anisotropic austenitic stainless steel sheets at room temperature: Multi-axial experiments and phenomenological modeling. *Journal of the Mechanics and Physics of Solids*, **2008**, 56, 2935-2956	5	39
11	High-Pressure Volumetric Properties of Imidazolium-Based Ionic Liquids: Effect of the Anion. *Journal of Chemical & Engineering Data*, **2007**, 52, 2204-2211	2.8	211
10	Influence of the Cation on the Solubility of CO2 and H2 in Ionic Liquids Based on the Bis(trifluoromethylsulfonyl)imide Anion. *Journal of Solution Chemistry*, **2007**, 36, 967-979	1.8	160
9	Solubility of carbon dioxide and ethane in three ionic liquids based on the bis{(trifluoromethyl)sulfonyl}imide anion. *Fluid Phase Equilibria*, **2007**, 257, 27-34	2.5	66
8	Effect of Acetonitrile on the Solubility of Carbon Dioxide in 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide. *Industrial & Engineering Chemistry Research*, **2006**, 45, 8180-8188	3.9	57
7	Density and viscosity of several pure and water-saturated ionic liquids. *Green Chemistry*, **2006**, 8, 172-180	10	676
6	Low-pressure solubilities and thermodynamics of solvation of eight gases in 1-butyl-3-methylimidazolium hexafluorophosphate. *Fluid Phase Equilibria*, **2006**, 240, 87-95	2.5	245
5	Solubility of carbon dioxide, ethane, methane, oxygen, nitrogen, hydrogen, argon, and carbon monoxide in 1-butyl-3-methylimidazolium tetrafluoroborate between temperatures 283K and 343K and at pressures close to atmospheric. *Journal of Chemical Thermodynamics*, **2006**, 38, 490-502	2.9	335
4	Thermodynamic Properties of Mixtures Containing Ionic Liquids. 4. LLE of Binary Mixtures of [C2MIM][NTf2] with Propan-1-ol, Butan-1-ol, and Pentan-1-ol and [C4MIM][NTf2] with Cyclohexanol and 1,2-Hexanediol Including Studies of the Influence of Small Amounts of Water. *Journal of Chemical & Engineering Data*, **2005**, 50, 956-960	2.8	77
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2	Transformation of vaterite into calcite in the absence and the presence of copper(II) species. *Journal of Thermal Analysis and Calorimetry*, **2003**, 74, 21-27	4.1	11
1	Catalytic properties of beta zeolite exchanged with Pd and Fe for toluene total oxidation. *Studies in Surface Science and Catalysis*, **2002**, 142, 699-706	1.8	12