

# Johan Jacquemin

## List of Publications by Citations

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158  
papers

6,336  
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43  
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74  
g-index

167  
ext. papers

7,130  
ext. citations

5  
avg, IF

6.02  
L-index

#	Paper	IF	Citations
158	Density and viscosity of several pure and water-saturated ionic liquids. <i>Green Chemistry</i> , <b>2006</b> , 8, 172-180	2.0	676
157	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. <i>Journal of Chemical Thermodynamics</i> , <b>2006</b> , 38, 490-502	2.9	335
156	Low-pressure solubilities and thermodynamics of solvation of eight gases in 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Fluid Phase Equilibria</i> , <b>2006</b> , 240, 87-95	2.5	245
155	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 716-726	2.8	218
154	High-Pressure Volumetric Properties of Imidazolium-Based Ionic Liquids: Effect of the Anion. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 2204-2211	2.8	211
153	Influence of the Cation on the Solubility of CO <sub>2</sub> and H <sub>2</sub> in Ionic Liquids Based on the Bis(trifluoromethylsulfonyl)imide Anion. <i>Journal of Solution Chemistry</i> , <b>2007</b> , 36, 967-979	1.8	160
152	Heat Capacities of Ionic Liquids as a Function of Temperature at 0.1 MPa. Measurement and Prediction. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 2148-2153	2.8	143
151	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 2133-2143	2.8	124
150	Volumetric properties, viscosity and refractive index of the protic ionic liquid, pyrrolidinium octanoate, in molecular solvents. <i>Journal of Chemical Thermodynamics</i> , <b>2010</b> , 42, 834-845	2.9	123
149	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 14164-8	16.4	110
148	Density, conductivity, viscosity, and excess properties of (pyrrolidinium nitrate-based Protic Ionic Liquid+propylene carbonate) binary mixture. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 59, 10-19	2.9	96
147	Aggregation behavior in water of new imidazolium and pyrrolidinium alkylcarboxylates protic ionic liquids. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 340, 104-11	9.3	95
146	Deep eutectic solvents based on N-methylacetamide and a lithium salt as suitable electrolytes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20054-63	3.6	90
145	Evaluation of Gas Solubility Prediction in Ionic Liquids using COSMOthermX. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 2005-2022	2.8	89
144	Industrial Applications of Ionic Liquids. <i>Molecules</i> , <b>2020</b> , 25,	4.8	87
143	Thermophysical properties of ionic liquids. <i>Topics in Current Chemistry</i> , <b>2010</b> , 290, 185-212		80
142	Liquid densities, heat capacities, refractive index and excess quantities for {protic ionic liquids+water} binary system. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 799-808	2.9	79

141	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. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2005</b> , 50, 956-960	2.8	77
140	Ionic liquids for post-combustion CO <sub>2</sub> capture by physical absorption: Thermodynamic, kinetic and process analysis. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 61, 61-70	4.2	75
139	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. <i>Electrochimica Acta</i> , <b>2013</b> , 102, 120-126	6.7	74
138	Mixing Enthalpy for Binary Mixtures Containing Ionic Liquids. <i>Chemical Reviews</i> , <b>2016</b> , 116, 6075-106	68.1	71
137	Optimized ionic liquids for toluene absorption. <i>AIChE Journal</i> , <b>2013</b> , 59, 1648-1656	3.6	70
136	Comparative Performances of Birnessite and Cryptomelane MnO <sub>2</sub> as Electrode Material in Neutral Aqueous Lithium Salt for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 7408-7422	3.8	69
135	Solubility of carbon dioxide and ethane in three ionic liquids based on the bis((trifluoromethyl)sulfonyl)imide anion. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 257, 27-34	2.5	66
134	Deep Eutectic Solvents Based on N-Methylacetamide and a Lithium Salt as Electrolytes at Elevated Temperature for Activated Carbon-Based Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 4033-4042	3.8	64
133	Thermophysical Properties of Ammonium-Based Bis((trifluoromethyl)sulfonyl)imide Ionic Liquids: Volumetric and Transport Properties. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 2227-2235	2.8	63
132	Absorption refrigeration cycles based on ionic liquids: Refrigerant/absorbent selection by thermodynamic and process analysis. <i>Applied Energy</i> , <b>2018</b> , 213, 179-194	10.7	61
131	Transport properties investigation of aqueous protic ionic liquid solutions through conductivity, viscosity, and NMR self-diffusion measurements. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 4228-38	3.4	61
130	Physicochemical characterization of morpholinium cation based protic ionic liquids used as electrolytes. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 1757-66	3.4	61
129	Volumetric Properties, Viscosities, and Isobaric Heat Capacities of Imidazolium Octanoate Protic Ionic Liquid in Molecular Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 5719-5728	2.8	57
128	Liquid-Liquid miscibility and volumetric properties of aqueous solutions of ionic liquids as a function of temperature. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 1206-1214	2.9	57
127	Thermophysical properties, low pressure solubilities and thermodynamics of solvation of carbon dioxide and hydrogen in two ionic liquids based on the alkylsulfate anion. <i>Green Chemistry</i> , <b>2008</b> , 10, 944	10	57
126	Effect of Acetonitrile on the Solubility of Carbon Dioxide in 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 8180-8188	3.9	57
125	Viscous Behavior of Imidazolium-Based Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16774-16785	3.9	52
124	Sustainable Cyclic Carbonate Production, Utilizing Carbon Dioxide and Azolate Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5635-5641	8.3	51

123	Transport properties of protic ionic liquids, pure and in aqueous solutions: Effects of the anion and cation structure. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 297, 13-22	2.5	50
122	Speed of Sound and Ultrasound Absorption in Ionic Liquids. <i>Chemical Reviews</i> , <b>2017</b> , 117, 3883-3929	68.1	49
121	CO <sub>2</sub> Capture in Wet and Dry Superbase Ionic Liquids. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 511-527	1.8	49
120	Azepanium-based ionic liquids as green electrolytes for high voltage supercapacitors. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 931-936	8.9	49
119	Techno-Economic Feasibility of Selective CO <sub>2</sub> Capture Processes from Biogas Streams Using Ionic Liquids as Physical Absorbents. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 5052-5064	4.1	47
118	High pressure CO <sub>2</sub> absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 351, 74-86	2.5	46
117	COSMO-based/Aspen Plus process simulation of the aromatic extraction from pyrolysis gasoline using the {[empty][NTf <sub>2</sub> ] + [emim][DCA]} ionic liquid mixture. <i>Separation and Purification Technology</i> , <b>2018</b> , 190, 211-227	8.3	45
116	Influence of water on the carbon dioxide absorption by 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 294, 98-104	2.5	45
115	Comparative study on transport properties for LiFAP and LiPF <sub>6</sub> in alkyl-carbonates as electrolytes through conductivity, viscosity and NMR self-diffusion measurements. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 95-104	6.7	43
114	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. <i>Macromolecules</i> , <b>2015</b> , 48, 8660-8666	5.5	42
113	Mixtures of Azepanium Based Ionic Liquids and Propylene Carbonate as High Voltage Electrolytes for Supercapacitors. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 426-432	6.7	39
112	Physicochemical Investigation of Adiponitrile-Based Electrolytes for Electrical Double Layer Capacitor. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 14107-14123	3.8	39
111	Comparative Study on Performances of Trimethyl-Sulfonium and Trimethyl-Ammonium Based Ionic Liquids in Molecular Solvents as Electrolyte for Electrochemical Double Layer Capacitors. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10315-10325	3.8	39
110	Large deformation of anisotropic austenitic stainless steel sheets at room temperature: Multi-axial experiments and phenomenological modeling. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 2935-2956	5	39
109	Type 3 porous liquids based on non-ionic liquid phases - a broad and tailorable platform of selective, fluid gas sorbents. <i>Chemical Science</i> , <b>2020</b> , 11, 2077-2084	9.4	38
108	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. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 1389-402	3.4	38
107	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. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 121, 97-111	2.9	37
106	Understanding the heat capacity enhancement in ionic liquid-based nanofluids (ionanofluids). <i>Journal of Molecular Liquids</i> , <b>2018</b> , 253, 326-339	6	37

105	The use of binary mixtures of 1-butyl-1-methylpyrrolidinium bis((trifluoromethyl)sulfonyl)imide and aliphatic nitrile solvents as electrolyte for supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 220, 146-155	6.7	37
104	Viscosity and carbon dioxide solubility for LiPF <sub>6</sub> , LiTFSI, and LiFAP in alkyl carbonates: lithium salt nature and concentration effect. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 3973-80	3.4	37
103	A class of efficient short-chain fluorinated cationic surfactants. <i>Green Chemistry</i> , <b>2016</b> , 18, 1234-1239	10	36
102	Reduction of Carbon Dioxide to Formate at Low Overpotential Using a Superbase Ionic Liquid. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14370-14374	3.6	34
101	Interfacial Properties of LiTFSI and LiPF <sub>6</sub> -Based Electrolytes in Binary and Ternary Mixtures of Alkylcarbonates on Graphite Electrodes and Celgard Separator. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5240-5245	3.9	34
100	Low pressure carbon dioxide solubility in pure electrolyte solvents for lithium-ion batteries as a function of temperature. Measurement and prediction. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 50, 71-79	2.9	33
99	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. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 11251-62	3.6	33
98	Physico-Chemical Properties of Non-Newtonian Shear Thickening Diisopropyl-ethylammonium-Based Protic Ionic Liquids and Their Mixtures with Water and Acetonitrile. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 556-564	2.8	32
97	Isobaric and Isochoric Heat Capacities of Imidazolium-Based and Pyrrolidinium-Based Ionic Liquids as a Function of Temperature: Modeling of Isobaric Heat Capacity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 2592-2606	3.9	30
96	Further development of the predictive models for physical properties of pure ionic liquids: Thermal conductivity and heat capacity. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 118, 1-15	2.9	30
95	Structure and thermal properties of salicylate-based-protic ionic liquids as new heat storage media. COSMO-RS structure characterization and modeling of heat capacities. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 3549-57	3.6	30
94	Physical/Chemical 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. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 376-390	2.8	29
93	Volumetric properties and enthalpies of solution of alcohols C <sub>k</sub> H <sub>2k+1</sub> OH (k=1, 2, 6) in 1-methyl-3-alkylimidazolium bis(trifluoromethylsulfonyl)imide {[C <sub>1</sub> C <sub>n</sub> Im][NTf <sub>2</sub> ] n=2, 4, 6, 8, 10} ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2011</b> , 43, 1708-1718	2.9	29
92	New Method for the Estimation of Viscosity of Pure and Mixtures of Ionic Liquids Based on the UNIFAC- $\tau$ ISCO Model. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2160-2169	2.8	28
91	Are alkyl sulfate-based protic and aprotic ionic liquids stable with water and alcohols? A thermodynamic approach. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 1938-49	3.4	28
90	The Influence of Cation Structure on the Chemical/Physical Properties of Protic Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 8525-8533	3.8	27
89	On the scaling behavior of electric conductivity in [C <sub>4</sub> mim][NTf <sub>2</sub> ]. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 20444-50	3.6	26
88	Thermophysical and Electrochemical Properties of Etheral Functionalised Cyclic Alkylammonium-based Ionic Liquids as Potential Electrolytes for Electrochemical Applications. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2040-2057	3.2	24

87	Low pressure carbon dioxide solubility in lithium-ion batteries based electrolytes as a function of temperature. Measurement and prediction. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 61, 32-44	2.9	24
86	Thermal Properties of Alkyl-triethylammonium bis(trifluoromethyl)sulfonylimide Ionic Liquids. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 790-810	1.8	23
85	Statistical Refinement and Fitting of Experimental Viscosity-to-Temperature Data in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10475-10484	3.9	23
84	Ultrasonic Relaxation Study of 1-Alkyl-3-methylimidazolium-Based Room-Temperature Ionic Liquids: Probing the Role of Alkyl Chain Length in the Cation. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 3569-81	3.4	23
83	Ionic liquid-based nanofluids (ionanofluids) for thermal applications: an experimental thermophysical characterization. <i>Pure and Applied Chemistry</i> , <b>2019</b> , 91, 1309-1340	2.1	22
82	Phosphoric acid-mediated green preparation of regenerated cellulose spheres and their use for all-cellulose cross-linked superabsorbent hydrogels. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 136-149	7.9	22
81	An ether-functionalised cyclic sulfonium based ionic liquid as an electrolyte for electrochemical double layer capacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 549-559	8.9	22
80	Effect of the Presence of MEA on the CO <sub>2</sub> Capture Ability of Superbase Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 1092-1100	2.8	22
79	Phase behaviour, interactions, and structural studies of (amines+ionic liquids) binary mixtures. <i>ChemPhysChem</i> , <b>2012</b> , 13, 1825-35	3.2	22
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][NTf <sub>2</sub> ]. <i>Soft Matter</i> , <b>2015</b> , 11, 6520-6	3.6	21
77	Synthesis and Thermophysical Properties of Ether-Functionalized Sulfonium Ionic Liquids as Potential Electrolytes for Electrochemical Applications. <i>ChemPhysChem</i> , <b>2016</b> , 17, 3992-4002	3.2	21
76	Liquid-Liquid Equilibria of Ionic Liquids-Water-Acetic Acid Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 653-664	2.8	20
75	Investigating the Effect of NO on the Capture of CO <sub>2</sub> Using Superbase Ionic Liquids for Flue Gas Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3567-3574	8.3	20
74	Thermal Conductivity Enhancement Phenomena in Ionic Liquid-Based Nanofluids (Ionanofluids). <i>Australian Journal of Chemistry</i> , <b>2019</b> , 72, 21	1.2	19
73	Tunable thermomorphism and applications of ionic liquid analogues of Girard's reagents. <i>Green Chemistry</i> , <b>2014</b> , 16, 4115-4121	10	19
72	Enhancing Liquid-Phase Olefin-Paraffin Separations Using Novel Silver-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 28-36	2.8	19
71	CO <sub>2</sub> capture and electrochemical conversion using superbasic [P66614][124Triz]. <i>Faraday Discussions</i> , <b>2015</b> , 183, 389-400	3.6	17
70	Excess molar volumes and excess molar enthalpies in binary systems N-alkyl-triethylammonium bis(trifluoromethylsulfonyl)imide+methanol. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 363, 156-166	2.5	17

69	The addition of CO <sub>2</sub> to four superbase ionic liquids: a DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28674-82	3.6	16
68	Understanding the Competitive Gas Absorption of CO <sub>2</sub> and SO <sub>2</sub> in Superbase Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 17033-17042	3.9	16
67	High Pressure Speed of Sound and Related Thermodynamic Properties of 1-Alkyl-3-methylimidazolium Bis[(trifluoromethyl)sulfonyl]imides (from 1-Propyl- to 1-Hexyl-). <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 3794-3805	2.8	15
66	Selective adsorptive separation of cyclohexane over benzene using thienothiophene cages. <i>Chemical Science</i> , <b>2021</b> , 12, 5315-5318	9.4	15
65	Structuring reductive media containing protic ionic liquids and their application to the formation of metallic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 445, 1-11	5.1	14
64	Low pressure methane solubility in lithium-ion batteries based solvents and electrolytes as a function of temperature. Measurement and prediction. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 79, 49-60	2.9	14
63	Good Reporting Practice for Thermophysical and Thermochemical Property Measurements (IUPAC Technical Report).. <i>Pure and Applied Chemistry</i> , <b>2021</b> , 93,	2.1	14
62	How is charge transport different in ionic liquids? The effect of high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 14141-14147	3.6	13
61	High-pressure phase equilibrium in the {carbon dioxide (1) + 1-chloropropane (2)} binary system. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 91, 165-171	2.9	13
60	Acoustic and Volumetric Properties of Diluted Solutions of Water in Ionic Liquids. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 824-837	1.8	13
59	Mutual Solubilities of Ammonium-Based Ionic Liquids with Water and with Water/Methanol Mixture. <i>Procedia Engineering</i> , <b>2012</b> , 42, 1229-1241		13
58	Phase Equilibria of Binary and Ternary Systems Containing ILs, Dodecane, and Cyclohexanecarboxylic Acid. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 312-324	2.5	13
57	On the Performances of Ionic Liquid-Based Electrolytes for Li-NMC Batteries. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 769-789	1.8	12
56	Development of a diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS) cell for the in situ analysis of co-electrolysis in a solid oxide cell. <i>Faraday Discussions</i> , <b>2015</b> , 182, 97-111	3.6	12
55	A Fluctuation Equation of State for Prediction of High-Pressure Densities of Ionic Liquids. <i>Scientific Reports</i> , <b>2017</b> , 7, 5563	4.9	12
54	Catalytic properties of beta zeolite exchanged with Pd and Fe for toluene total oxidation. <i>Studies in Surface Science and Catalysis</i> , <b>2002</b> , 142, 699-706	1.8	12
53	Thermodynamic Properties of Dichloromethane, Bromochloromethane, and Dibromomethane under Elevated Pressure: Experimental Results and SAFT-VR Mie Predictions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 720-730	3.9	11
52	Transformation of vaterite into calcite in the absence and the presence of copper(II) species. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2003</b> , 74, 21-27	4.1	11

51	Temperature- and Pressure-Induced Structural Changes of Cobalt(II) in a Phosphonium-Based Ionic Liquid. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 10156-10161	3.8	10
50	Toward Designing Sweet Ionic Liquids Containing a Natural Terpene Moiety as Effective Wood Preservatives. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 15628-15639	8.3	10
49	Effect of mixed anions on the transport properties and performance of an ionic liquid-based electrolyte for lithium-ion batteries. <i>Pure and Applied Chemistry</i> , <b>2019</b> , 91, 1361-1381	2.1	10
48	Tunable gold nanoparticles shape and size in reductive and structuring media containing protic ionic liquids. <i>Ionics</i> , <b>2013</b> , 19, 1783-1790	2.7	10
47	An introduction to zwitterionic salts. <i>Green Chemistry</i> , <b>2017</b> , 19, 4007-4011	10	10
46	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. <i>Journal of Solution Chemistry</i> , <b>2017</b> , 46, 1456-1474	1.8	10
45	Group Contribution Method for Evaluation of Volumetric Properties of Ionic Liquids Using Experimental Data Recommended by Mathematical Gnostics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 6827-6840	3.9	9
44	Comparative study of effect of alkyl chain length on thermophysical characteristics of five N-alkylpyridinium bis(trifluoromethylsulfonyl)imides with selected imidazolium-based ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 278, 401-412	6	9
43	Peculiar relaxation dynamics of propylene carbonate derivatives. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 044504	3.9	9
42	Impact of the aqueous pyrrolidinium hydrogen sulfate electrolyte formulation on transport properties and electrochemical performances for polyaniline-based supercapacitor. <i>Journal of Power Sources</i> , <b>2019</b> , 431, 162-169	8.9	9
41	Alternative Electrolytes for Li-Ion Batteries Using Glutaronitrile and 2-methylglutaronitrile with Lithium Bis(trifluoromethanesulfonyl) Imide. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3487-A3495	3.9	9
40	Comments and Additional Work on High-Pressure Volumetric Properties of Imidazolium-Based Ionic Liquids: Effect of the Anion. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 2409-2414	2.8	8
39	Factors affecting bubble size in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 14306-14318	3.6	8
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