

# Joan F Brennecke

## List of Publications by Year in Descending Order

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

138  
papers

19,564  
citations

52  
h-index

139  
g-index

280  
ext. papers

20,758  
ext. citations

6.6  
avg, IF

6.93  
L-index

#	Paper	IF	Citations
138	Inverse Gas Chromatography as a Screening Technique for Henry's Law Constants of Gases in Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2022</b> , 67, 385-392	2.8	
137	Design and Characterization of Aprotic N-Heterocyclic Anion Ionic Liquids for Carbon Capture. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2022</b> , 67, 375-384	2.8	2
136	Ethylene and ethane transport properties of hydrogen-stable Ag <sup>+</sup> -based facilitated transport membranes. <i>Journal of Membrane Science</i> , <b>2022</b> , 647, 120300	9.6	2
135	Hydrophobic Quaternized Poly(fluorene) Ionomers for Emerging Fuel Cells. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 2663-2668	6.1	1
134	nanoscale evaluation of pressure-induced changes in structural morphology of phosphonium phosphate ionic liquid at single-asperity contacts. <i>RSC Advances</i> , <b>2021</b> , 12, 413-419	3.7	0
133	Effects of Poly(glycidyl ether) Structure and Ether Oxygen Placement on CO <sub>2</sub> Solubility. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 2832-2843	2.8	1
132	Quantification of Ylide Formation in Phosphonium-Based Ionic Liquids Reacted with CO. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 6649-6657	3.4	3
131	Effects of Polarity and Hydrogen Bonding on Physical Properties and Ion Dissociation in 1-Ethyl-3-methylimidazolium Ionic Liquid + Non-aqueous Solvent Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 1191-1200	2.8	2
130	The Activity Enhancement Effect of Ionic Liquids on Oxygen Reduction Reaction Catalysts: From Rotating Disk Electrode to Membrane Electrode Assembly. <i>Catalysts</i> , <b>2021</b> , 11, 989	4	2
129	Thermal stability of ionic liquids in nitrogen and air environments. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 161, 106560	2.9	5
128	Modeling and optimization of ionic liquid-based carbon capture process using a thin-film unit. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 155, 107522	4	1
127	Ionic Liquids: Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid in Nanoscale Single-Asperity Sliding Contacts (Adv. Mater. Interfaces 17/2020). <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2070099	4.6	
126	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6131-6133	5.6	
125	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 2496-2498	4.3	
124	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , <b>2020</b> , 39, 2331-2333	3.8	
123	Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid in Nanoscale Single-Asperity Sliding Contacts. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000426	4.6	7
122	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 5107-5108	4.1	

121	Preface to the PPEPPD 2019 Special Issue. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 297-297.8	1	1
120	Review of Recent Aromatic-Aliphatic-Ionic Liquid Ternary Liquid-Liquid Equilibria and Their Modeling by COSMO-RS. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 8871-8893	3.9	11
119	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Organometallics</i> , <b>2020</b> , 39, 1665-1666	1.6	6
118	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , <b>2020</b> , 27, 198-200	1.7	6
117	Journal of Chemical & Engineering Data: Looking Back. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 5628-5629	2.8	1
116	Uncommon Behavior of Tetra-alkyl-phosphonium 2-Cyano-pyrrolide Ionic Liquids + Glycerol and Triethanolamine Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 373-384	2.8	4
115	Hydrogen Stable Supported Ionic Liquid Membranes with Silver Carriers: Propylene and Propane Permeability and Solubility. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 5362-5370	3.9	13
114	Ion Dissociation in Ionic Liquids and Ionic Liquid Solutions. <i>Chemical Reviews</i> , <b>2020</b> , 120, 12873-12902	68.1	66
113	Cation-Anion and Anion-CO Interactions in Triethyl(octyl)phosphonium Ionic Liquids with Aprotic Heterocyclic Anions (AHAs). <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 8877-8887	3.4	9
112	Protic Imidazolium Cation-Based Ionic Liquids Show Unexpected Interfacial Properties. <i>Langmuir</i> , <b>2020</b> , 36, 8904-8913	4	2
111	Modes of Interaction in Binary Blends of Hydrophobic Polyethers and Imidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Macromolecules</i> , <b>2020</b> , 53, 6519-6528	5.5	5
110	Reimagining petroleum refining. <i>Science</i> , <b>2020</b> , 369, 254-255	33.3	10
109	Promising Thiolanium Ionic Liquid for Extraction of Aromatics from Aliphatics: Experiments and Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15707-15717	3.9	7
108	Solubility of argon, krypton and xenon in ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 504, 112334	2.5	11
107	Hard chromium composite electroplating on high-strength stainless steel from a Cr(III)-ionic liquid solution. <i>Electrochemistry Communications</i> , <b>2019</b> , 107, 106537	5.1	15
106	Cation-Anion Interactions in 1-Ethyl-3-methylimidazolium-Based Ionic Liquids with Aprotic Heterocyclic Anions (AHAs). <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 8274-8284	3.4	4
105	Effect of Water on CO <sub>2</sub> Capture by Aprotic Heterocyclic Anion (AHA) Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16858-16869	8.3	21
104	Characterization of Aqueous 1-Ethyl-3-Methylimidazolium Ionic Liquids for Calculation of Ion Dissociation. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 1348-1358	3.4	11

103	Recyclability of Encapsulated Ionic Liquids for Post-Combustion CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 4997-5007	3.9	25
102	Solubility of Water in Aprotic Heterocyclic Anion (AHA) Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4875-4881	2.8	2
101	Ion dissociation in aqueous 1-alkyl-3-methyl-imidazolium chlorides and the impact of microstructure formation. <i>Molecular Physics</i> , <b>2019</b> , 117, 3509-3517	1.7	5
100	Solubility and Diffusivity of Oxygen in Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4956-4967	2.8	18
99	Highlighting 10 Years of NIST Cooperation and Service to the Thermophysical Properties Data Community. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4191-4192	2.8	2
98	Evaluating the Performance of Micro-Encapsulated CO Sorbents during CO Absorption and Regeneration Cycling. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2926-2936	10.3	13
97	Using Dialkylimidazolium Ionic Liquids To Break the Methanol + Methyl Acetate Azeotrope. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 22633-22639	3.9	5
96	Celebrating JCED's High Impact Authors. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 4607-4610	2.8	2
95	Encapsulation of Ionic Liquids with an Aprotic Heterocyclic Anion (AHA-IL) for CO Capture: Preserving the Favorable Thermodynamics and Enhancing the Kinetics of Absorption. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 2616-2626	3.4	38
94	How mixing tetraglyme with the ionic liquid 1-n-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide changes volumetric and transport properties: An experimental and computational study. <i>Chemical Engineering Science</i> , <b>2017</b> , 159, 43-57	4.4	19
93	The Viscosity and Density of Ionic Liquid + Tetraglyme Mixtures and the Effect of Tetraglyme on CO <sub>2</sub> Solubility. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 608-622	2.8	17
92	Viscosity of Ionic Liquid/Ionic Liquid Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 1884-1901	2.8	47
91	Predicting the Solubility of CO <sub>2</sub> in Toluene + Ionic Liquid Mixtures with PC-SAFT. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 9885-9894	3.9	12
90	Enhancing Pt/C Catalysts for the Oxygen Reduction Reaction with Protic Ionic Liquids: The Effect of Anion Structure. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, F1448-F1459	3.9	30
89	Simultaneous Process and Material Design for Aprotic N-Heterocyclic Anion Ionic Liquids in Postcombustion CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 8432-8449	3.9	16
88	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. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 5767-76	3.4	33
87	CO <sub>2</sub> Chemistry of Phenolate-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1509-17	3.4	49
86	Phase Transitions, Decomposition Temperatures, Viscosities, and Densities of Phosphonium, Ammonium, and Imidazolium Ionic Liquids with Aprotic Heterocyclic Anions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2897-2914	2.8	30

85	Comparison of Ionic Liquids to Conventional Organic Solvents for Extraction of Aromatics from Aliphatics. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 1685-1699	2.8	106
84	Characterization of Imidazolium Chloride Ionic Liquids Plus Trivalent Chromium Chloride for Chromium Electroplating. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 4879-4890	3.9	18
83	Speciation, conductivities, diffusivities, and electrochemical reduction as a function of water content in mixtures of hydrated chromium chloride/choline chloride. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 6018-23	3.4	26
82	Effect of Cation on Physical Properties and CO <sub>2</sub> Solubility for Phosphonium-Based Ionic Liquids with 2-Cyanopyrrolide Anions. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 11807-14	3.4	73
81	Using Ionic Liquids To Break the Ethanol/Ethyl Acetate Azeotrope. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3435-3444	8.3	26
80	Liquid-liquid phase split in ionic liquid + toluene mixtures induced by CO <sub>2</sub> . <i>AIChE Journal</i> , <b>2015</b> , 61, 2968-2976	2.8	8
79	Solubility of CO <sub>2</sub> in [1-n-butylthiolanium][Tf <sub>2</sub> N] <sup>-</sup> +toluene mixtures: liquid-liquid phase split separation and modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	9
78	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. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 15030-9	3.4	34
77	A Computational and Experimental Study of the Heat Transfer Properties of Nine Different Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 391-399	2.8	91
76	Synthesis and characterization of the thermodynamic and electrochemical properties of tetra-alkyl phosphonium oxalate ionic liquids. <i>RSC Advances</i> , <b>2014</b> , 4, 14840	3.7	11
75	Phase-Change Ionic Liquids for Postcombustion CO <sub>2</sub> Capture. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 5968-5977	4.1	70
74	Excess enthalpy of monoethanolamine + ionic liquid mixtures: how good are COSMO-RS predictions?. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 11512-22	3.4	55
73	Competing reactions of CO <sub>2</sub> with cations and anions in azolide ionic liquids. <i>ChemSusChem</i> , <b>2014</b> , 7, 1970-5	2.5	47
72	Chemically tunable ionic liquids with aprotic heterocyclic anion (AHA) for CO <sub>2</sub> capture. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 5740-51	3.4	176
71	Origin of Catalytic Effect in the Reduction of CO <sub>2</sub> at Nanostructured TiO <sub>2</sub> Films. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3249-3254	13.1	98
70	Physical Properties and CO <sub>2</sub> Reaction Pathway of 1-Ethyl-3-Methylimidazolium Ionic Liquids with Aprotic Heterocyclic Anions. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 14870-9	3.4	53
69	On the High-Pressure Solubilities of Carbon Dioxide in Several Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 2642-2653	2.8	50
68	Reaction kinetics of CO <sub>2</sub> absorption in to phosphonium based anion-functionalized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7796-811	3.6	80

67	Physicochemical and Electrochemical Properties of Ionic Liquids Containing Aprotic Heterocyclic Anions Doped With Lithium Salts. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1604-A1610	3.9	30
66	Guidelines for reporting of phase equilibrium measurements (IUPAC Recommendations 2012). <i>Pure and Applied Chemistry</i> , <b>2012</b> , 84, 1785-1813	2.1	22
65	Experimental Measurements of Amine-Functionalized Anion-Tethered Ionic Liquids with Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 111-118	3.9	234
64	Effect of water and temperature on absorption of CO <sub>2</sub> by amine-functionalized anion-tethered ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 9140-50	3.4	219
63	Thermodynamic and Thermophysical Properties of Ionic Liquid + Water Systems. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 4946-4950	2.8	120
62	Ionic Liquids for CO <sub>2</sub> Capture and Emission Reduction. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3459-3464	6.4	425
61	Interactions of ionic liquids and water. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 10496-501	3.4	141
60	Equimolar CO <sub>2</sub> absorption by anion-functionalized ionic liquids. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2116-7	16.4	689
59	Extraction of biofuels and biofeedstocks from aqueous solutions using ionic liquids. <i>Computers and Chemical Engineering</i> , <b>2010</b> , 34, 1406-1412	4	81
58	Reply to Comment on Characterization of the Ability of CO <sub>2</sub> to Act as an Antisolvent for Ionic Liquid/Organic Mixtures. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 6581-6581	3.4	4
57	Asymmetric Framework for Predicting Liquid-Liquid Equilibrium of Ionic Liquid-Mixed-Solvent Systems. 1. Theory, Phase Stability Analysis, and Parameter Estimation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 7246-7256	3.9	23
56	Thermodynamic and thermophysical properties of the reference ionic liquid: 1-Hexyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]amide (including mixtures). Part 1. Experimental methods and results (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2009</b> , 81, 781-790	2.1	104
55	Influence of water on diffusion in imidazolium-based ionic liquids: a pulsed field gradient NMR study. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 6353-9	3.4	93
54	Extraction of alcohols from water with 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Green Chemistry</i> , <b>2008</b> , 10, 1301	10	106
53	Heat Capacities and Excess Enthalpies of 1-Ethyl-3-methylimidazolium-Based Ionic Liquids and Water. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 2112-2119	2.8	132
52	Modeling Liquid-Liquid Equilibrium of Ionic Liquid Systems with NRTL, Electrolyte-NRTL, and UNIQUAC. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 256-272	3.9	180
51	Carbon Dioxide Solubility Enhancement through Silicone Functionalization: CO <sub>2</sub> -philic Oligo(dimethylsiloxane)-substituted Diphosphonates*. <i>Separation Science and Technology</i> , <b>2008</b> , 43, 2520-2536	2.5	17
50	Enhanced Solubility of Hydrogen in CO <sub>2</sub> -Expanded Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 570-576	3.9	45

49	High temperature separation of carbon dioxide/hydrogen mixtures using facilitated supported ionic liquid membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 322, 28-31	9.6	198
48	Characterization of the ability of CO <sub>2</sub> to act as an antisolvent for ionic liquid/organic mixtures. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4837-43	3.4	49
47	Liquid Phase Behavior of Ionic Liquids with Water and 1-Octanol and Modeling of 1-Octanol/Water Partition Coefficients. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2007</b> , 52, 2462-2467	2.8	104
46	Solubility of CO <sub>2</sub> , CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>4</sub> , O <sub>2</sub> , and N <sub>2</sub> in 1-hexyl-3-methylpyridinium bis(trifluoromethylsulfonyl)imide: comparison to other ionic liquids. <i>Accounts of Chemical Research</i> , <b>2007</b> , 40, 1208-16	24.3	499
45	Improving carbon dioxide solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 9001-9	3.4	627
44	Liquid phase behavior of ionic liquids with alcohols: experimental studies and modeling. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9354-61	3.4	127
43	Removal of ammonium bromide, ammonium chloride, and zinc acetate from ionic liquid/organic mixtures using carbon dioxide. <i>Green Chemistry</i> , <b>2006</b> , 8, 141	10	20
42	Temperature and Composition Dependence of the Density and Viscosity of Binary Mixtures of Water + Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 2145-2155	2.8	411
41	Ternary Phase Behavior of Ionic Liquid (IL)/Organic/CO <sub>2</sub> Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 5574-5585	3.9	61
40	Measurement of SO <sub>2</sub> solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 15059-62	3.4	292
39	Recent Progress in the Development of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: Solubility Enhancement through Silicon Functionalization. <i>ACS Symposium Series</i> , <b>2006</b> , 250-267	0.4	
38	Octanol/water partition coefficients of imidazolium-based ionic liquids. <i>Green Chemistry</i> , <b>2005</b> , 7, 83-90	10	212
37	Anion effects on gas solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 6366-74	3.4	835
36	Phase transition and decomposition temperatures, heat capacities and viscosities of pyridinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2005</b> , 37, 559-568	2.9	585
35	Phase Equilibria with Gases and Liquids of 1-n-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>ACS Symposium Series</i> , <b>2005</b> , 292-300	0.4	2
34	Why Is CO <sub>2</sub> so soluble in imidazolium-based ionic liquids?. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5300-8	16.4	1213
33	Solvent strength of ionic liquid/CO <sub>2</sub> mixtures. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 3280	3.6	76
32	Liquid Phase Behavior of Imidazolium-Based Ionic Liquids with Alcohols. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5113-5119	3.4	355

31	Predicting Infinite-Dilution Activity Coefficients of Organic Solutes in Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 1039-1048	3.9	77
30	High-Pressure Phase Behavior of Carbon Dioxide with Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 20355-20365	3.4	704
29	Thermophysical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2004</b> , 49, 954-964	2.8	1262
28	Phase Equilibria of Gases and Liquids with 1-n-butyl-3-Methylimidazolium Tetrafluoroborate. <i>ACS Symposium Series</i> , <b>2003</b> , 110-120	0.4	12
27	Carbon dioxide induced separation of ionic liquids and water. <i>Chemical Communications</i> , <b>2003</b> , 572-3	5.8	116
26	Predicting melting points of quaternary ammonium ionic liquids. <i>Green Chemistry</i> , <b>2003</b> , 5, 323	10	143
25	Experimental Measurement and Modeling of the Vapor-Liquid Equilibrium of $\beta$ -Diketones with CO <sub>2</sub> . <i>ACS Symposium Series</i> , <b>2003</b> , 245-258	0.4	
24	Thermodynamic properties of the ionic liquid 1-n-butyl-3-methylimidazolium hexafluorophosphate from Monte Carlo simulations. <i>Green Chemistry</i> , <b>2002</b> , 4, 112-118	10	226
23	Solubilities and Thermodynamic Properties of Gases in the Ionic Liquid 1-n-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 7315-7320	3.1	829
22	Separation of Species from Ionic Liquids. <i>ACS Symposium Series</i> , <b>2002</b> , 82-96	0.4	10
21	Gas Solubilities in 1-n-Butyl-3-methylimidazolium Hexafluorophosphate. <i>ACS Symposium Series</i> , <b>2002</b> , 260-269	0.4	12
20	Volume Expansivities and Isothermal Compressibilities of Imidazolium and Pyridinium-Based Ionic Liquids. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2002</b> , 47, 339-345	2.8	396
19	CO <sub>2</sub> as a separation switch for ionic liquid/organic mixtures. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 10276-7	16.4	288
18	Reliable computation of mixture critical points. <i>AIChE Journal</i> , <b>2001</b> , 47, 212-221	3.6	52
17	Ionic liquids: Innovative fluids for chemical processing. <i>AIChE Journal</i> , <b>2001</b> , 47, 2384-2389	3.6	1171
16	Recovery of Organic Products from Ionic Liquids Using Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 287-292	3.9	485
15	High-Pressure Phase Behavior of Ionic Liquid/CO <sub>2</sub> Systems. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 2437-2444	3.4	845
14	Solution Thermodynamics of Imidazolium-Based Ionic Liquids and Water. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 10942-10949	3.4	606



13	How polar are room-temperature ionic liquids?. <i>Chemical Communications</i> , <b>2001</b> , 413-414	5.8	331
12	Esterification of acetic acid with ethanol in carbon dioxide. <i>Green Chemistry</i> , <b>2001</b> , 3, 17-19	10	33
11	Response to Comment on Effect of Local Composition Enhancements on the Esterification of Phthalic Anhydride with Methanol in Supercritical Carbon Dioxide <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 4484-4484	3.9	
10	Green processing using ionic liquids and CO <sub>2</sub> . <i>Nature</i> , <b>1999</b> , 399, 28-29	50.4	1629
9	Homogeneous Organic Reactions as Mechanistic Probes in Supercritical Fluids. <i>Chemical Reviews</i> , <b>1999</b> , 99, 433-452	68.1	185
8	Laser Flash Photolysis Investigation of the Triplet-Triplet Annihilation of Anthracene in Supercritical Water. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 6591-6598	2.8	14
7	Reliable computation of homogeneous azeotropes. <i>AIChE Journal</i> , <b>1998</b> , 44, 1745-1755	3.6	50
6	Pulse Radiolysis Investigations of Solvation Effects on Arylmethyl Cation Reactivity in Supercritical Fluids. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 12394-12402		20
5	Pulse Radiolysis To Study Intermolecular Interactions and Reactivity in Supercritical Fluids. <i>ACS Symposium Series</i> , <b>1995</b> , 156-165	0.4	1
4	Current State of Supercritical Fluid Science and Technology. <i>ACS Symposium Series</i> , <b>1992</b> , 1-8	0.4	2
3	Spectroscopic Investigations of Reactions in Supercritical Fluids. <i>ACS Symposium Series</i> , <b>1992</b> , 201-219	0.4	5
2	Laser Flash Photolysis Studies of Benzophenone in Supercritical CO <sub>2</sub> . <i>ACS Symposium Series</i> , <b>1992</b> , 106-120		3
1	Physicochemical Properties of Ionic Liquids 41-126		15