

# Jason E Bara

## 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.

130  
papers

6,528  
citations

36  
h-index

79  
g-index

137  
ext. papers

7,130  
ext. citations

4.7  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
130	Tuning conformational structures of imidazolium ionenes with 1-ethyl-3-methylimidazolium ionic liquid solvents. <i>Chemical Engineering Science</i> , <b>2022</b> , 251, 117456	4.4	
129	Anionic Ring-Opening Polymerizations of N-Sulfonylaziridines in Ionic Liquids. <i>Macromolecules</i> , <b>2022</b> , 55, 623-629	5.5	1
128	Experimental and Computational Study of the Properties of Imidazole Compounds with Branched and Cycloalkyl Substituents. <i>Liquids</i> , <b>2022</b> , 2, 14-25		0
127	Charge scaling parameter evaluation for multivalent ionic liquids with fixed point charge force fields. <i>Journal of Ionic Liquids</i> , <b>2022</b> , 2, 100020		1
126	Molecular simulations and experimental studies of the structural properties of imidazolium ionenes with butyl and decyl spacers solvated in 1-ethyl-3-methylimidazolium bistriflimide. <i>Journal of Ionic Liquids</i> , <b>2022</b> , 2, 100013		
125	Molecular aspects of temperature swing solvent extraction for brine desalination using imidazole-based solvents. <i>Chemical Engineering Science</i> , <b>2022</b> , 247, 116866	4.4	4
124	Glycerol valorisation towards biofuel additives: Thermodynamic studies of glycerol ethers. <i>Chemical Engineering Science</i> , <b>2022</b> , 247, 117032	4.4	2
123	The interfacial compatibility between a potential CO <sub>2</sub> separation membrane and capture solvents. <i>Carbon Capture Science &amp; Technology</i> , <b>2022</b> , 2, 100037		1
122	Commodity Chemicals and Fuels from Biomass: Thermodynamic Properties of Levoglucosan Derivatives. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 17183-17194	3.9	1
121	Emerging iongel materials towards applications in energy and bioelectronics. <i>Materials Horizons</i> , <b>2021</b> , 8, 3239-3265	14.4	6
120	Designing Ionic Liquid-Derived Polymer Composites from Poly(Ionic Liquid)/Bene Semi-interpenetrating Networks. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 1995-2004	4.3	4
119	Design and Gas Separation Performance of Imidazolium Poly(ILs) Containing Multivalent Imidazolium Fillers and Crosslinking Agents. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
118	Screening Ionic Liquids Based on Ionic Volume and Electrostatic Potential Analyses. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3653-3664	3.4	9
117	Solubility Behavior of CO in Ionic Liquids Based on Ionic Polarity Index Analyses. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 3665-3676	3.4	9
116	Understanding Gas Solubility of Pure Component and Binary Mixtures within Multivalent Ionic Liquids from Molecular Simulations. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 8165-8174	3.4	6
115	Molecular-level behavior of imidazolium-based ionic liquid mixtures. <i>Chemical Engineering Science</i> , <b>2021</b> , 229, 116073	4.4	6
114	Synthesis of imidazolium-mediated Poly(benzoxazole) Ionene and composites with ionic liquids as advanced gas separation membranes. <i>Polymer</i> , <b>2021</b> , 214, 123239	3.9	3

113	Scalable, safer and greener syntheses of vinylimidazoles via reactive distillation of hydroxyethylimidazole intermediates. <i>Polymer International</i> , <b>2021</b> , 70, 582-593	3.3	0
112	How Do Ionic Liquids Hold Ionenenes? Computational and Experimental Analysis of Imidazolium Polymers Based on Ether and Alkyl Chain Variations Dissolved in an Ionic Liquid. <i>Macromolecules</i> , <b>2021</b> , 54, 1611-1622	5.5	4
111	Carbon Capture, Usage, and Storage <b>2021</b> , 351-360		
110	Synthesis and properties of symmetric glycerol-derived 1,2,3-triethers and 1,3-diether-2-ketones for CO <sub>2</sub> absorption. <i>Chemical Engineering Science</i> , <b>2021</b> , 248, 117150	4.4	2
109	Photorheology and Gelation during Polymerization of Coordinated Ionic Liquids. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 2397-2405	4.3	4
108	Synthesis and Performance of Aromatic Polyamide Ionenenes as Gas Separation Membranes. <i>Membranes</i> , <b>2020</b> , 10,	3.8	11
107	Tailored CO <sub>2</sub> -Philic Anionic Poly(ionic liquid) Composite Membranes: Synthesis, Characterization, and Gas Transport Properties. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 5954-5965	8.3	18
106	Designing Imidazolium Poly(amide-amide) and Poly(amide-imide) Ionenenes and Their Interactions with Mono- and Tris(imidazolium) Ionic Liquids. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
105	Properties of symmetric 1,3-diethers based on glycerol skeletons for CO <sub>2</sub> absorption. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 521, 112718	2.5	5
104	Sustainable Novel Bamboo-Based Membranes for Water Treatment Fabricated by Regeneration of Bamboo Waste Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4225-4235	8.3	21
103	Valorization of Plastic Wastes for the Synthesis of Imidazolium-Based Self-Supported Elastomeric Ionenenes. <i>ChemSusChem</i> , <b>2020</b> , 13, 3122-3126	8.3	8
102	Nearly Perfect 3D Structures Obtained by Assembly of Printed Parts of Polyamide Ionene Self-Healing Elastomer. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4352-4359	4.3	3
101	Solubility and diffusivity of CO <sub>2</sub> in ionic polyimides with [C(CN) <sub>3</sub> ] <sub>x</sub> [oAc] <sub>1-x</sub> anion composition. <i>Computational Materials Science</i> , <b>2020</b> , 174, 109468	3.2	15
100	Polymeric Membranes <b>2020</b> , 187-214		
99	Preparation of PSEBS membranes bearing (S)-( <i>S</i> )-1-methylbenzylamine as chiral selector. <i>European Polymer Journal</i> , <b>2020</b> , 122, 109381	5.2	13
98	Separation of racemic compound by nanofibrous composite membranes with chiral selector. <i>Journal of Membrane Science</i> , <b>2020</b> , 596, 117728	9.6	16
97	Synthesis and characterization of imidazolium-mediated Tröger's base containing poly(amide)-ionenes and composites with ionic liquids for CO <sub>2</sub> separation membranes. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 7370-7381	4.9	1
96	Dual Anion-Cation Crosslinked Poly(ionic liquid) Composite Membranes for Enhanced CO <sub>2</sub> Separation. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 5067-5076	4.3	7

95	Synthesis and Properties of 1,2,3-Triethoxypropane: A Glycerol-Derived Green Solvent Candidate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20190-20200	3.9	6
94	Molecular insight into the anion effect and free volume effect of CO solubility in multivalent ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 20618-20633	3.6	15
93	Toward controlled functional sequencing and hierarchical structuring in imidazolium ionenes. <i>Polymer International</i> , <b>2020</b> , 70, 944	3.3	7
92	6FDA-containing polyimide-ionene + ionic liquid gas separation membranes. <i>Journal of Polymer Science</i> , <b>2020</b> , 58, 2664-2674	2.4	1
91	Diphenyl Ether Derivatives as Potential Liquid Organic Hydrogen Carriers: Thermochemical and Computational Study. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 1108-1116	2.8	6
90	Molecular-level analysis of the wetting behavior of imidazolium-based ionic liquids on bismuth telluride surfaces. <i>Chemical Engineering Science</i> , <b>2020</b> , 211, 115270	4.4	6
89	110th Anniversary: Properties of Imidazolium-Based Ionic Liquids Bearing Both Benzylic and n-Alkyl Substituents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 17956-17964	3.9	12
88	Recent Advances in the Design of Ionenes: Toward Convergence with High-Performance Polymers. <i>Macromolecular Chemistry and Physics</i> , <b>2019</b> , 220, 1900078	2.6	25
87	Understanding the effects of backbone chemistry and anion type on the structure and thermal behaviors of imidazolium polyimide-ionenes. <i>Polymer International</i> , <b>2019</b> , 68, 1547-1556	3.3	11
86	Self-healing imidazolium-based ionene-polyamide membranes: an experimental study on physical and gas transport properties. <i>Polymer International</i> , <b>2019</b> , 68, 1123-1129	3.3	21
85	Molecular Transport Behavior of CO in Ionic Polyimides and Ionic Liquid Composite Membrane Materials. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 7455-7463	3.4	14
84	Synthesis and Performance of 6FDA-Based Polyimide-Ionenes and Composites with Ionic Liquids as Gas Separation Membranes. <i>Membranes</i> , <b>2019</b> , 9,	3.8	24
83	Design and Synthesis of Imidazolium-Mediated Tröger's Base-Containing Ionene Polymers for Advanced CO Separation Membranes. <i>ACS Omega</i> , <b>2019</b> , 4, 3439-3448	3.9	21
82	Molecular analysis of selective gas adsorption within composites of ionic polyimides and ionic liquids as gas separation membranes. <i>Chemical Physics</i> , <b>2019</b> , 516, 71-83	2.3	22
81	Single-step purification of raw biogas to biomethane quality by hollow fiber membranes without any pretreatment [An innovation in biogas upgrading. <i>Separation and Purification Technology</i> , <b>2018</b> , 203, 36-40	8.3	15
80	Experimental Densities and Calculated Fractional Free Volumes of Ionic Liquids with Tri- and Tetra-substituted Imidazolium Cations. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 2522-2532	2.8	5
79	Analysis of the Frequency and Diversity of 1,3-Dialkylimidazolium Ionic Liquids Appearing in the Literature. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 15971-15981	3.9	16
78	Synthesis and Characterization of Ionene-Polyamide Materials as Candidates for New Gas Separation Membranes. <i>MRS Advances</i> , <b>2018</b> , 3, 3091-3102	0.7	11

77	Systematic Investigation of the Photopolymerization of Imidazolium-Based Ionic Liquid Styrene and Vinyl Monomers. <i>Journal of Polymer Science Part A</i> , <b>2018</b> , 56, 2364-2375	2.5	10
76	Ionic Polyimides: Hybrid Polymer Architectures and Composites with Ionic Liquids for Advanced Gas Separation Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 5055-5069	3.9	70
75	Photopolymerization of Alkyl- and Ether-Functionalized Coordinated Ionic Liquid Monomers. <i>ACS Symposium Series</i> , <b>2017</b> , 69-82	0.4	2
74	Molecular Simulation of Ionic Polyimides and Composites with Ionic Liquids as Gas-Separation Membranes. <i>Langmuir</i> , <b>2017</b> , 33, 11377-11389	4	31
73	Understanding Carbon Dioxide Solubility in Ionic Liquids by Exploring the Link with Liquid Clathrate Formation. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 14332-14337	4.8	11
72	Photopolymerization Behavior of Coordinated Ionic Liquids Formed from Organic Monomers with Alkali and Alkaline Earth Metal Bistriflimide Salts. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600338	2.6	5
71	1,2,3-Trimethoxypropane: A Glycerol-Derived Physical Solvent for CO <sub>2</sub> Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 911-921	8.3	19
70	Programmatic conversion of crystal structures into 3D printable files using Jmol. <i>Journal of Cheminformatics</i> , <b>2016</b> , 8, 66	8.6	23
69	Synthesis and gas separation properties of poly(ionic liquid)-ionic liquid composite membranes containing a copper salt. <i>Journal of Membrane Science</i> , <b>2016</b> , 515, 109-114	9.6	52
68	Photopolymerization of coordinated ionic liquid monomers: Realizing the benefits of structured media using only common reagents. <i>Journal of Polymer Science Part A</i> , <b>2016</b> , 54, 2004-2014	2.5	8
67	Ionic liquid crosslinkers for chiral imprinted nanoGUMBOS. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 463, 29-36	9.3	16
66	Structure-property relationships in ionic liquids: Influence of branched and cyclic groups on vaporization enthalpies of imidazolium-based ILs. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 93, 151-156	2.9	19
65	Lessons Learned from the Use of Unconventional Materials for CO <sub>2</sub> Capture. <i>MRS Advances</i> , <b>2016</b> , 1, 3027-3035	0.7	1
64	Poly(ionic liquid) superabsorbent for polar organic solvents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8979-83	9.5	36
63	Effect of branched and cycloalkyl functionalities on CO <sub>2</sub> separation performance of poly(IL) membranes. <i>Separation and Purification Technology</i> , <b>2015</b> , 155, 89-95	8.3	21
62	Building Blocks for Ionic Liquids: Vapor Pressures and Vaporization Enthalpies of N-Functionalized Imidazoles with Branched and Cycloalkyl Substituents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9850-9856	3.9	7
61	Tangible visualization of molecular dynamics simulations using 3-D printing. <i>Education for Chemical Engineers</i> , <b>2015</b> , 13, 9-16	2.4	3
60	Structure-property relationships in ionic liquids: Chain length dependence of the vaporization enthalpies of imidazolium-based ionic liquids with fluorinated substituents. <i>Thermochimica Acta</i> , <b>2015</b> , 622, 38-43	2.9	13

59	3D Printed Block Copolymer Nanostructures. <i>Journal of Chemical Education</i> , <b>2015</b> , 92, 1866-1870	2.4	24
58	Enhancing the pre-polymerization coordination of 1-vinylimidazole. <i>Chemical Engineering Science</i> , <b>2015</b> , 138, 646-654	4.4	6
57	Chemical and Physical Absorption of SO <sub>2</sub> by N-Functionalized Imidazoles: Experimental Results and Molecular-level Insight. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 462-471	3.9	54
56	Correlating fractional free volume to CO <sub>2</sub> selectivity in [Rmim][Tf <sub>2</sub> N] ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 77, 190-196	2.9	39
55	Enhanced photopolymerization rate & conversion of 1-vinylimidazole in the presence of lithium bistriflimide. <i>European Polymer Journal</i> , <b>2014</b> , 60, 92-97	5.2	14
54	Electrostatic potential within the free volume space of imidazole-based solvents: insights into gas absorption selectivity. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 255-64	3.4	24
53	Tuning the adsorption interactions of imidazole derivatives with specific metal cations. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 3944-51	2.8	14
52	Imidazole-Based Solvents and Membranes for CO <sub>2</sub> Capture Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1673, 1		
51	Structure-Property Relationships in Ionic Liquids: A Study of the Influence of N(1) Ether and C(2) Methyl Substituents on the Vaporization Enthalpies of Imidazolium-Based Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16615-16621	3.9	20
50	DFT study on the effect of exocyclic substituents on the proton affinity of 1-methylimidazole. <i>Chemical Physics</i> , <b>2013</b> , 416, 21-25	2.3	11
49	Properties and Performance of Ether-Functionalized Imidazoles as Physical Solvents for CO <sub>2</sub> Separations. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 3349-3357	4.1	34
48	COSMOtherm as a Tool for Estimating the Thermophysical Properties of Alkylimidazoles as Solvents for CO <sub>2</sub> Separations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 5498-5506	3.9	20
47	Synthesis of 1,2-Dialkyl-, 1,4(5)-Dialkyl-, and 1,2,4(5)-Trialkylimidazoles via a One-Pot Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 11880-11887	3.9	17
46	Considering the Basis of Accounting for CO <sub>2</sub> Mole Fractions in Ionic Liquids and Its Influence on the Interpretation of Solution Nonideality. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3522-3529	3.9	12
45	Ionic Liquids in Gas Separation Membranes <b>2013</b> , 1		2
44	3D printing for CO <sub>2</sub> capture and chemical engineering design. <i>Nanomaterials and Energy</i> , <b>2013</b> , 2, 235-243	3.1	15
43	Perspectives on supercapacitors, pseudocapacitors and batteries. <i>Nanomaterials and Energy</i> , <b>2012</b> , 1, 136-158	1.1	35
42	Beyond 1,3-difunctionalized imidazolium cations. <i>Nanomaterials and Energy</i> , <b>2012</b> , 1, 237-242	1.1	15

41	Free Volume as the Basis of Gas Solubility and Selectivity in Imidazolium-Based Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5565-5576	3.9	183
40	Building Blocks for Ionic Liquids: Vapor Pressures and Vaporization Enthalpies of Alkoxy Derivatives of Imidazole and Benzimidazole. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 15517-15524	3.9	10
39	Properties of alkylbenzimidazoles for CO <sub>2</sub> and SO <sub>2</sub> capture and comparisons to ionic liquids. <i>Science China Chemistry</i> , <b>2012</b> , 55, 1638-1647	7.9	24
38	Accelerated Aging and Qualitative Degradation Pathway Analysis of CO <sub>2</sub> Capture Solvents Containing Ionic Liquids. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5345-5349	4.1	13
37	Molecular simulation of the thermophysical properties of N-functionalized alkylimidazoles. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 6529-35	3.4	26
36	Building Blocks for Ionic Liquids: Vapor Pressures and Vaporization Enthalpies of 1-(n-Alkyl)-benzimidazoles. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 1803-1809	2.8	18
35	Reactive and Reversible Ionic Liquids for CO <sub>2</sub> Capture and Acid Gas Removal. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 178-188	2.5	89
34	Potential for Hydrogen Sulfide Removal Using Ionic Liquid Solvents <b>2012</b> , 155-167		9
33	Evaluation of Alkylimidazoles as Physical Solvents for CO <sub>2</sub> /CH <sub>4</sub> Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 515-522	3.9	48
32	What chemicals will we need to capture CO <sub>2</sub> ? <b>2012</b> , 2, 162-171		41
31	Versatile and Scalable Method for Producing N-Functionalized Imidazoles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 13614-13619	3.9	51
30	Properties of Alkylimidazoles as Solvents for CO <sub>2</sub> Capture and Comparisons to Imidazolium-Based Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 8665-8677	3.9	95
29	Thermotropic liquid crystal behaviour of gemini imidazolium-based ionic amphiphiles. <i>Liquid Crystals</i> , <b>2010</b> , 37, 1587-1599	2.3	46
28	Room-temperature ionic liquids and composite materials: platform technologies for CO(2) capture. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 152-9	24.3	519
27	A comparison of fluoroalkyl-derivatized imidazolium:TFSI and alkyl-derivatized imidazolium:TFSI ionic liquids: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 7064-7076	3.6	44
26	Main-chain imidazolium polymer membranes for CO <sub>2</sub> separations: An initial study of a new ionic liquid-inspired platform. <i>Journal of Membrane Science</i> , <b>2010</b> , 359, 37-43	9.6	123
25	A three-component mixed-matrix membrane with enhanced CO <sub>2</sub> separation properties based on zeolites and ionic liquid materials. <i>Journal of Membrane Science</i> , <b>2010</b> , 350, 117-123	9.6	135
24	How do polymerized room-temperature ionic liquid membranes plasticize during high pressure CO <sub>2</sub> permeation?. <i>Journal of Membrane Science</i> , <b>2010</b> , 360, 202-209	9.6	68

23	New protein-resistant coatings for water filtration membranes based on quaternary ammonium and phosphonium polymers. <i>Journal of Membrane Science</i> , <b>2009</b> , 330, 104-116	9.6	58
22	Polyamide- and polycarbonate-based nanocomposites prepared from thermally stable imidazolium organoclay. <i>Polymer</i> , <b>2009</b> , 50, 2492-2502	3.9	25
21	Gas separations in fluoroalkyl-functionalized room-temperature ionic liquids using supported liquid membranes. <i>Chemical Engineering Journal</i> , <b>2009</b> , 147, 43-50	14.7	190
20	Effect of Free Cation Substituent on Gas Separation Performance of Polymer Room-Temperature Ionic Liquid Composite Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 4607-4610	3.9	113
19	Guide to CO <sub>2</sub> Separations in Imidazolium-Based Room-Temperature Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 2739-2751	3.9	618
18	Physically Gelled Ionic Liquids: Solid Membrane Materials with Liquidlike CO <sub>2</sub> Gas Transport. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3027-3029	9.6	109
17	Diol-Functionalized Imidazolium-Based Room-Temperature Ionic Liquids with Bis(trifluoromethanesulfonimide) Anions that Exhibit Variable Water Miscibility. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8757-8759	3.9	17
16	Room-Temperature Ionic Liquids: Temperature Dependence of Gas Solubility Selectivity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 3453-3459	3.9	292
15	Room-Temperature Ionic Liquid/Amine Solutions: Tunable Solvents for Efficient and Reversible Capture of CO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 8496-8498	3.9	378
14	A comparison of ether- and alkyl-derivatized imidazolium-based room-temperature ionic liquids: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 6301-12	3.6	117
13	Ideal gas solubilities and solubility selectivities in a binary mixture of room-temperature ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 2335-9	3.4	155
12	Effect of Anion on Gas Separation Performance of Polymer Room-Temperature Ionic Liquid Composite Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 9919-9924	3.9	136
11	Interpretation of CO <sub>2</sub> Solubility and Selectivity in Nitrile-Functionalized Room-Temperature Ionic Liquids Using a Group Contribution Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 7005-7012	3.9	154
10	Synthesis and light gas separations in cross-linked gemini room temperature ionic liquid polymer membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 316, 186-191	9.6	133
9	Improving CO <sub>2</sub> permeability in polymerized room-temperature ionic liquid gas separation membranes through the formation of a solid composite with a room-temperature ionic liquid. <i>Polymers for Advanced Technologies</i> , <b>2008</b> , 19, 1415-1420	3.2	202
8	Polymerized Lyotropic Liquid Crystal Assemblies for Membrane Applications. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 367-389	4.8	95
7	Improving CO <sub>2</sub> selectivity in polymerized room-temperature ionic liquid gas separation membranes through incorporation of polar substituents. <i>Journal of Membrane Science</i> , <b>2008</b> , 321, 3-7	9.6	210
6	Functional Lyotropic Liquid Crystal Materials <b>2007</b> , 181-222		49



5	Synthesis and Performance of Polymerizable Room-Temperature Ionic Liquids as Gas Separation Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5397-5404	3.9	344
4	Influence of nanostructure on light gas separations in cross-linked lyotropic liquid crystal membranes. <i>Journal of Membrane Science</i> , <b>2007</b> , 288, 13-19	9.6	48
3	Enhanced CO <sub>2</sub> Separation Selectivity in Oligo(ethylene glycol) Functionalized Room-Temperature Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5380-5386	3.9	204
2	Bulk-Fluid Solubility and Membrane Feasibility of Rmim-Based Room-Temperature Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 6279-6283	3.9	203
1	Glycerol-derived solvents containing two or three distinct functional groups enabled by trifluoroethyl glycidyl ether. <i>AIChE Journal</i> , e17533	3.6	1