

Joan F Brennecke

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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	Green processing using ionic liquids and CO ₂ . <i>Nature</i> , 1999 , 399, 28-29	50.4	1629
137	Thermophysical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 954-964	2.8	1262
136	Why Is CO ₂ so soluble in imidazolium-based ionic liquids?. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5300-8	16.4	1213
135	Ionic liquids: Innovative fluids for chemical processing. <i>AIChE Journal</i> , 2001 , 47, 2384-2389	3.6	1171
134	High-Pressure Phase Behavior of Ionic Liquid/CO ₂ Systems. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2437-2444	3.4	845
133	Anion effects on gas solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6366-74	3.4	835
132	Solubilities and Thermodynamic Properties of Gases in the Ionic Liquid 1-n-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7315-7320	3.4	829
131	High-Pressure Phase Behavior of Carbon Dioxide with Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 20355-20365	3.4	704
130	Equimolar CO ₂ absorption by anion-functionalized ionic liquids. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2116-7	16.4	689
129	Improving carbon dioxide solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 9001-9	3.4	627
128	Solution Thermodynamics of Imidazolium-Based Ionic Liquids and Water. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10942-10949	3.4	606
127	Phase transition and decomposition temperatures, heat capacities and viscosities of pyridinium ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2005 , 37, 559-568	2.9	585
126	Solubility of CO ₂ , CH ₄ , C ₂ H ₆ , C ₂ H ₄ , O ₂ , and N ₂ in 1-hexyl-3-methylpyridinium bis(trifluoromethylsulfonyl)imide: comparison to other ionic liquids. <i>Accounts of Chemical Research</i> , 2007 , 40, 1208-16	24.3	499
125	Recovery of Organic Products from Ionic Liquids Using Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 287-292	3.9	485
124	Ionic Liquids for CO ₂ Capture and Emission Reduction. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3459-3464	6.4	425
123	Temperature and Composition Dependence of the Density and Viscosity of Binary Mixtures of Water + Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 2145-2155	2.8	411
122	Volume Expansivities and Isothermal Compressibilities of Imidazolium and Pyridinium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 339-345	2.8	396

121	Liquid Phase Behavior of Imidazolium-Based Ionic Liquids with Alcohols. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5113-5119	3.4	355
120	How polar are room-temperature ionic liquids?. <i>Chemical Communications</i> , 2001 , 413-414	5.8	331
119	Measurement of SO ₂ solubility in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15059-62	3.4	292
118	CO ₂ as a separation switch for ionic liquid/organic mixtures. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10276-7	16.4	288
117	Experimental Measurements of Amine-Functionalized Anion-Tethered Ionic Liquids with Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 111-118	3.9	234
116	Thermodynamic properties of the ionic liquid 1-n-butyl-3-methylimidazolium hexafluorophosphate from Monte Carlo simulations. <i>Green Chemistry</i> , 2002 , 4, 112-118	10	226
115	Effect of water and temperature on absorption of CO ₂ by amine-functionalized anion-tethered ionic liquids. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 9140-50	3.4	219
114	Octanol/water partition coefficients of imidazolium-based ionic liquids. <i>Green Chemistry</i> , 2005 , 7, 83-90	10	212
113	High temperature separation of carbon dioxide/hydrogen mixtures using facilitated supported ionic liquid membranes. <i>Journal of Membrane Science</i> , 2008 , 322, 28-31	9.6	198
112	Homogeneous Organic Reactions as Mechanistic Probes in Supercritical Fluids. <i>Chemical Reviews</i> , 1999 , 99, 433-452	68.1	185
111	Modeling Liquid-Liquid Equilibrium of Ionic Liquid Systems with NRTL, Electrolyte-NRTL, and UNIQUAC. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 256-272	3.9	180
110	Chemically tunable ionic liquids with aprotic heterocyclic anion (AHA) for CO ₂ capture. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 5740-51	3.4	176
109	Predicting melting points of quaternary ammonium ionic liquids. <i>Green Chemistry</i> , 2003 , 5, 323	10	143
108	Interactions of ionic liquids and water. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10496-501	3.4	141
107	Heat Capacities and Excess Enthalpies of 1-Ethyl-3-methylimidazolium-Based Ionic Liquids and Water. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2112-2119	2.8	132
106	Liquid phase behavior of ionic liquids with alcohols: experimental studies and modeling. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9354-61	3.4	127
105	Thermodynamic and Thermophysical Properties of Ionic Liquid + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4946-4950	2.8	120
104	Carbon dioxide induced separation of ionic liquids and water. <i>Chemical Communications</i> , 2003 , 572-3	5.8	116

103	Extraction of alcohols from water with 1-hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. <i>Green Chemistry</i> , 2008 , 10, 1301	10	106
102	Comparison of Ionic Liquids to Conventional Organic Solvents for Extraction of Aromatics from Aliphatics. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1685-1699	2.8	106
101	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> , 2009 , 81, 781-790	2.1	104
100	Liquid Phase Behavior of Ionic Liquids with Water and 1-Octanol and Modeling of 1-Octanol/Water Partition Coefficients. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 2462-2467	2.8	104
99	Origin of Catalytic Effect in the Reduction of CO ₂ at Nanostructured TiO ₂ Films. <i>ACS Catalysis</i> , 2014 , 4, 3249-3254	13.1	98
98	Influence of water on diffusion in imidazolium-based ionic liquids: a pulsed field gradient NMR study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6353-9	3.4	93
97	A Computational and Experimental Study of the Heat Transfer Properties of Nine Different Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 391-399	2.8	91
96	Extraction of biofuels and biofeedstocks from aqueous solutions using ionic liquids. <i>Computers and Chemical Engineering</i> , 2010 , 34, 1406-1412	4	81
95	Reaction kinetics of CO ₂ absorption in to phosphonium based anion-functionalized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 7796-811	3.6	80
94	Predicting Infinite-Dilution Activity Coefficients of Organic Solutes in Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1039-1048	3.9	77
93	Solvent strength of ionic liquid/CO ₂ mixtures. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 3280	3.6	76
92	Effect of Cation on Physical Properties and CO ₂ Solubility for Phosphonium-Based Ionic Liquids with 2-Cyanopyrrolide Anions. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11807-14	3.4	73
91	Phase-Change Ionic Liquids for Postcombustion CO ₂ Capture. <i>Energy & Fuels</i> , 2014 , 28, 5968-5977	4.1	70
90	Ion Dissociation in Ionic Liquids and Ionic Liquid Solutions. <i>Chemical Reviews</i> , 2020 , 120, 12873-12902	68.1	66
89	Ternary Phase Behavior of Ionic Liquid (IL) Organic CO ₂ Systems. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5574-5585	3.9	61
88	Excess enthalpy of monoethanolamine + ionic liquid mixtures: how good are COSMO-RS predictions?. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11512-22	3.4	55
87	Physical Properties and CO ₂ Reaction Pathway of 1-Ethyl-3-Methylimidazolium Ionic Liquids with Aprotic Heterocyclic Anions. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14870-9	3.4	53
86	Reliable computation of mixture critical points. <i>AIChE Journal</i> , 2001 , 47, 212-221	3.6	52

85	On the High-Pressure Solubilities of Carbon Dioxide in Several Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2642-2653	2.8	50
84	Reliable computation of homogeneous azeotropes. <i>AIChE Journal</i> , 1998 , 44, 1745-1755	3.6	50
83	CO ₂ Chemistry of Phenolate-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1509-17	3.4	49
82	Characterization of the ability of CO ₂ to act as an antisolvent for ionic liquid/organic mixtures. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4837-43	3.4	49
81	Viscosity of Ionic Liquid/Ionic Liquid Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 1884-1901	2.8	47
80	Competing reactions of CO ₂ with cations and anions in azolide ionic liquids. <i>ChemSusChem</i> , 2014 , 7, 1970-5	3.5	47
79	Enhanced Solubility of Hydrogen in CO ₂ -Expanded Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 570-576	3.9	45
78	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> , 2018 , 122, 2616-2626	3.4	38
77	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> , 2015 , 119, 15030-9	3.4	34
76	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> , 2016 , 120, 5767-76	3.4	33
75	Esterification of acetic acid with ethanol in carbon dioxide. <i>Green Chemistry</i> , 2001 , 3, 17-19	10	33
74	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> , 2017 , 164, F1448-F1459	3.9	30
73	Physicochemical and Electrochemical Properties of Ionic Liquids Containing Aprotic Heterocyclic Anions Doped With Lithium Salts. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1604-A1610	3.9	30
72	Phase Transitions, Decomposition Temperatures, Viscosities, and Densities of Phosphonium, Ammonium, and Imidazolium Ionic Liquids with Aprotic Heterocyclic Anions. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2897-2914	2.8	30
71	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> , 2015 , 119, 6018-23	3.4	26
70	Using Ionic Liquids To Break the Ethanol/Ethyl Acetate Azeotrope. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3435-3444	8.3	26
69	Recyclability of Encapsulated Ionic Liquids for Post-Combustion CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4997-5007	3.9	25
68	Asymmetric Framework for Predicting Liquid-Liquid Equilibrium of Ionic Liquid/Mixed-Solvent Systems. 1. Theory, Phase Stability Analysis, and Parameter Estimation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7246-7256	3.9	23

67	Guidelines for reporting of phase equilibrium measurements (IUPAC Recommendations 2012). <i>Pure and Applied Chemistry</i> , 2012 , 84, 1785-1813	2.1	22
66	Effect of Water on CO ₂ Capture by Aprotic Heterocyclic Anion (AHA) Ionic Liquids. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16858-16869	8.3	21
65	Removal of ammonium bromide, ammonium chloride, and zinc acetate from ionic liquid/organic mixtures using carbon dioxide. <i>Green Chemistry</i> , 2006 , 8, 141	10	20
64	Pulse Radiolysis Investigations of Solvation Effects on Arylmethyl Cation Reactivity in Supercritical Fluids. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 12394-12402		20
63	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> , 2017 , 159, 43-57	4.4	19
62	Characterization of Imidazolium Chloride Ionic Liquids Plus Trivalent Chromium Chloride for Chromium Electroplating. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 4879-4890	3.9	18
61	Solubility and Diffusivity of Oxygen in Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4956-4967	2.8	18
60	The Viscosity and Density of Ionic Liquid + Tetraglyme Mixtures and the Effect of Tetraglyme on CO ₂ Solubility. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 608-622	2.8	17
59	Carbon Dioxide Solubility Enhancement through Silicone Functionalization: CO ₂ -philic Oligo(dimethylsiloxane)-substituted Diphosphonates*. <i>Separation Science and Technology</i> , 2008 , 43, 2520-2536	2.5	17
58	Simultaneous Process and Material Design for Aprotic N-Heterocyclic Anion Ionic Liquids in Postcombustion CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 8432-8449	3.9	16
57	Hard chromium composite electroplating on high-strength stainless steel from a Cr(III)-ionic liquid solution. <i>Electrochemistry Communications</i> , 2019 , 107, 106537	5.1	15
56	Physicochemical Properties of Ionic Liquids 41-126		15
55	Laser Flash Photolysis Investigation of the Triplet-Triplet Annihilation of Anthracene in Supercritical Water. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 6591-6598	2.8	14
54	Hydrogen Stable Supported Ionic Liquid Membranes with Silver Carriers: Propylene and Propane Permeability and Solubility. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5362-5370	3.9	13
53	Evaluating the Performance of Micro-Encapsulated CO Sorbents during CO Absorption and Regeneration Cycling. <i>Environmental Science & Technology</i> , 2019 , 53, 2926-2936	10.3	13
52	Predicting the Solubility of CO ₂ in Toluene + Ionic Liquid Mixtures with PC-SAFT. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9885-9894	3.9	12
51	Phase Equilibria of Gases and Liquids with 1-n-butyl-3-Methylimidazolium Tetrafluoroborate. <i>ACS Symposium Series</i> , 2003 , 110-120	0.4	12
50	Gas Solubilities in 1-n-Butyl-3-methylimidazolium Hexafluorophosphate. <i>ACS Symposium Series</i> , 2002 , 260-269	0.4	12

49	Characterization of Aqueous 1-Ethyl-3-Methylimidazolium Ionic Liquids for Calculation of Ion Dissociation. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1348-1358	3.4	11
48	Review of Recent Aromatic-Aliphatic-Ionic Liquid Ternary Liquid-Liquid Equilibria and Their Modeling by COSMO-RS. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8871-8893	3.9	11
47	Synthesis and characterization of the thermodynamic and electrochemical properties of tetra-alkyl phosphonium oxalate ionic liquids. <i>RSC Advances</i> , 2014 , 4, 14840	3.7	11
46	Solubility of argon, krypton and xenon in ionic liquids. <i>Fluid Phase Equilibria</i> , 2020 , 504, 112334	2.5	11
45	Separation of Species from Ionic Liquids. <i>ACS Symposium Series</i> , 2002 , 82-96	0.4	10
44	Reimagining petroleum refining. <i>Science</i> , 2020 , 369, 254-255	33.3	10
43	Solubility of CO ₂ in [1-n-butylthiolanium][Tf ₂ N] ⁺ +toluene mixtures: liquid-liquid phase split separation and modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	9
42	Cation-Anion and Anion-CO Interactions in Triethyl(octyl)phosphonium Ionic Liquids with Aprotic Heterocyclic Anions (AHAs). <i>Journal of Physical Chemistry B</i> , 2020 , 124, 8877-8887	3.4	9
41	Liquid-liquid phase split in ionic liquid + toluene mixtures induced by CO ₂ . <i>AIChE Journal</i> , 2015 , 61, 2968-2976	3.9	8
40	Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid in Nanoscale Single-Asperity Sliding Contacts. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000426	4.6	7
39	Promising Thiolanium Ionic Liquid for Extraction of Aromatics from Aliphatics: Experiments and Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15707-15717	3.9	7
38	Ion dissociation in aqueous 1-alkyl-3-methyl-imidazolium chlorides and the impact of microstructure formation. <i>Molecular Physics</i> , 2019 , 117, 3509-3517	1.7	5
37	Spectroscopic Investigations of Reactions in Supercritical Fluids. <i>ACS Symposium Series</i> , 1992 , 201-219	0.4	5
36	Modes of Interaction in Binary Blends of Hydrophobic Polyethers and Imidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Macromolecules</i> , 2020 , 53, 6519-6528	5.5	5
35	Using Dialkylimidazolium Ionic Liquids To Break the Methanol + Methyl Acetate Azeotrope. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22633-22639	3.9	5
34	Thermal stability of ionic liquids in nitrogen and air environments. <i>Journal of Chemical Thermodynamics</i> , 2021 , 161, 106560	2.9	5
33	Cation-Anion Interactions in 1-Ethyl-3-methylimidazolium-Based Ionic Liquids with Aprotic Heterocyclic Anions (AHAs). <i>Journal of Physical Chemistry B</i> , 2019 , 123, 8274-8284	3.4	4
32	Reply to Comment on Characterization of the Ability of CO ₂ to Act as an Antisolvent for Ionic Liquid/Organic Mixtures. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6581-6581	3.4	4

31	Uncommon Behavior of Tetra-alkyl-phosphonium 2-Cyano-pyrrolide Ionic Liquids + Glycerol and Triethanolamine Systems. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 373-384	2.8	4
30	Laser Flash Photolysis Studies of Benzophenone in Supercritical CO ₂ . <i>ACS Symposium Series</i> , 1992 , 106-120	0.4	3
29	Quantification of Ylide Formation in Phosphonium-Based Ionic Liquids Reacted with CO. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 6649-6657	3.4	3
28	Solubility of Water in Aprotic Heterocyclic Anion (AHA) Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4875-4881	2.8	2
27	Highlighting 10 Years of NIST Cooperation and Service to the Thermophysical Properties Data Community. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4191-4192	2.8	2
26	Phase Equilibria with Gases and Liquids of 1-n-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide. <i>ACS Symposium Series</i> , 2005 , 292-300	0.4	2
25	Current State of Supercritical Fluid Science and Technology. <i>ACS Symposium Series</i> , 1992 , 1-8	0.4	2
24	Design and Characterization of Aprotic N-Heterocyclic Anion Ionic Liquids for Carbon Capture. <i>Journal of Chemical & Engineering Data</i> , 2022 , 67, 375-384	2.8	2
23	Ethylene and ethane transport properties of hydrogen-stable Ag ⁺ -based facilitated transport membranes. <i>Journal of Membrane Science</i> , 2022 , 647, 120300	9.6	2
22	Protic Imidazolium Cation-Based Ionic Liquids Show Unexpected Interfacial Properties. <i>Langmuir</i> , 2020 , 36, 8904-8913	4	2
21	Celebrating JCED's High Impact Authors. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4607-4610	0.8	2
20	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 & Engineering Data</i> , 2021 , 66, 1191-1200	2.8	2
19	The Activity Enhancement Effect of Ionic Liquids on Oxygen Reduction Reaction Catalysts: From Rotating Disk Electrode to Membrane Electrode Assembly. <i>Catalysts</i> , 2021 , 11, 989	4	2
18	Preface to the PPEPPD 2019 Special Issue. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 297-297.8	0.8	1
17	Pulse Radiolysis To Study Intermolecular Interactions and Reactivity in Supercritical Fluids. <i>ACS Symposium Series</i> , 1995 , 156-165	0.4	1
16	Journal of Chemical & Engineering Data: Looking Back. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5628-5629	2.8	1
15	Effects of Poly(glycidyl ether) Structure and Ether Oxygen Placement on CO ₂ Solubility. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 2832-2843	2.8	1
14	Modeling and optimization of ionic liquid-based carbon capture process using a thin-film unit. <i>Computers and Chemical Engineering</i> , 2021 , 155, 107522	4	1

13	Hydrophobic Quaternized Poly(fluorene) Ionomers for Emerging Fuel Cells. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2663-2668	6.1	1
12	nanoscale evaluation of pressure-induced changes in structural morphology of phosphonium phosphate ionic liquid at single-asperity contacts.. <i>RSC Advances</i> , 2021 , 12, 413-419	3.7	0
11	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> , 2020 , 7, 2070099	4.6	
10	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6131-6133	5.6	
9	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2496-2498	4.3	
8	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , 2020 , 39, 2331-2333	3.8	
7	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Energy & Fuels</i> , 2020 , 34, 5107-5108	4.1	
6	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Organometallics</i> , 2020 , 39, 1665-1666	3.6	
5	Recent Progress in the Development of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: Solubility Enhancement through Silicon Functionalization. <i>ACS Symposium Series</i> , 2006 , 250-267	0.4	
4	Experimental Measurement and Modeling of the Vapor-Liquid Equilibrium of β -diketones with CO ₂ . <i>ACS Symposium Series</i> , 2003 , 245-258	0.4	
3	Response to Comment on Effect of Local Composition Enhancements on the Esterification of Phthalic Anhydride with Methanol in Supercritical Carbon Dioxide <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 4484-4484	3.9	
2	Inverse Gas Chromatography as a Screening Technique for Henry's Law Constants of Gases in Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2022 , 67, 385-392	2.8	
1	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , 2020 , 27, 198-200	1.7	