

# Tatsuya Umecky

## 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.

53  
papers

1,229  
citations

21  
h-index

33  
g-index

54  
ext. papers

1,302  
ext. citations

2.9  
avg, IF

4.24  
L-index

#	Paper	IF	Citations
53	CO <sub>2</sub> absorption features of 1-ethyl-3-methylimidazolium ionic liquids with 2,4-pentanedionate and its fluorine derivatives. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 31, 75-84	7.6	9
52	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 6244-6252	3.4	24
51	In-Situ Observation of Functional Solvents at High Pressures. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2018</b> , 28, 88-94	0	
50	Development of CO <sub>2</sub> Separation Technology Using Ionic Liquids. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , <b>2018</b> , 67, 514-520	0.1	
49	Solvation Structure of 1,3-Butanediol in Aqueous Binary Solvents with Acetonitrile, 1,4-Dioxane, and Dimethyl Sulfoxide Studied by IR, NMR, and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 4864-4872	3.4	5
48	Complex formation of nickel(ii) with dimethyl sulfoxide, methanol, and acetonitrile in a TFSA-based ionic liquid of [Cmim][TFSA]. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 31335-31344	3.6	5
47	Solvent-Dependent Properties and Higher-Order Structures of Aryl Alcohol + Surfactant Molecular Gels. <i>Langmuir</i> , <b>2016</b> , 32, 4352-60	4	10
46	Effect of partial pressure on CO <sub>2</sub> solubility in ionic liquid mixtures of 1-butyl-3-methylimidazolium acetate and 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 420, 74-82	2.5	17
45	CO <sub>2</sub> solubility in and physical properties for ionic liquid mixtures of 1-butyl-3-methylimidazolium acetate and 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 217, 112-119	6	46
44	Effects of Tetrafluoroborate and Bis(trifluoromethylsulfonyl)amide Anions on the Microscopic Structures of 1-Methyl-3-octylimidazolium-Based Ionic Liquids and Benzene Mixtures: A Multiple Approach by ATR-IR, NMR, and Femtosecond Raman-Induced Kerr Effect Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 513-26	3.4	21
43	CO <sub>2</sub> Absorption Properties and Mechanisms for 1-Ethyl-3-methylimidazolium Ether-Functionalized Carboxylates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12949-12961	3.9	15
42	Solvation structure and dynamics of Li <sup>+</sup> in Lewis-basic ionic liquid of 1-octyl-4-aza-1-azoniabicyclo[2.2.2]octane bis(trifluoromethanesulfonyl)amide. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 209, 557-562	6	8
41	A Study of the Solvation Structure of L-Leucine in Alcohol-Water Binary Solvents through Molecular Dynamics Simulations and FTIR and NMR Spectroscopy. <i>ChemPhysChem</i> , <b>2015</b> , 16, 3190-9	3.2	9
40	CO <sub>2</sub> absorption properties, densities, viscosities, and electrical conductivities of ethylimidazolium and 1-ethyl-3-methylimidazolium ionic liquids. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 362, 300-306	2.5	41
39	Microscopic interactions of the imidazolium-based ionic liquid with molecular liquids depending on their electron-donicity. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 23627-38	3.6	38
38	CO <sub>2</sub> Solubilities in Ammonium Bis(trifluoromethanesulfonyl)amide Ionic Liquids: Effects of Ester and Ether Groups. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 1435-1440	2.8	24
37	Role of water in complexation of 1,4,7,10,13,16-hexaoxacyclooctadecane (18-crown-6) with Li and K in hydrophobic 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide ionic liquid. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2014</b> , 80, 401-407	1.7	2

36	Structures of Naphthol-1,8-DIOT Self-assembly Organogels and Their Applications to Dispersing Media of Rare-earth Complexes. <i>Chemistry Letters</i> , <b>2014</b> , 43, 1861-1863	1.7	6
35	NMR Studies on Solution Structures of Methanol and Ethanol Saturated with CO <sub>2</sub> . <i>Journal of Solution Chemistry</i> , <b>2014</b> , 43, 1539-1549	1.8	2
34	Electrical Conductivities, Viscosities, and Densities of N-Acetoxyethyl-N,N-dimethyl-N-ethylammonium and N,N-Dimethyl-N-ethyl-N-methoxyethoxyethylammonium Bis(trifluoromethanesulfonyl)amide and Their Nonfunctionalized Analogues. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 370-376	2.8	31
33	CO <sub>2</sub> solubility and physical properties of N-(2-hydroxyethyl)pyridinium bis(trifluoromethanesulfonyl)amide. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 357, 64-70	2.5	20
32	Pressure-Volume-Temperature-Composition relations for carbon dioxide+pyrrolidinium-based ionic liquid binary systems. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 360, 253-259	2.5	27
31	Binary Diffusion Coefficients of Aqueous Straight-Chain Amino Acids at Infinitesimal Concentration and Temperatures from (298.2 to 333.2) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 2848-2853	2.8	12
30	SANS, ATR-IR, and 1D- and 2D-NMR studies of mixing states of imidazolium-based ionic liquid and aryl solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20565-76	3.6	11
29	Effect of CO <sub>2</sub> dissolution on electrical conductivity and self-diffusion coefficients of 1-butyl-3-methylimidazolium hexafluorophosphate ionic liquid. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 357, 76-79	2.5	10
28	Binary Diffusion Coefficients of Aqueous Phenylalanine, Tyrosine Isomers, and Aminobutyric Acids at Infinitesimal Concentration and Temperatures from (293.2 to 333.2) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 1909-1917	2.8	25
27	SANS, infrared, and <sup>7</sup> Li and <sup>23</sup> Na NMR studies on phase separation of alkali halide-acetonitrile-water mixtures by cooling. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 2438-48	3.4	5
26	Effects of dissolved water on Li <sup>+</sup> solvation in 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide ionic liquid studied by NMR. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 16219-26	3.4	17
25	Electrical Conductivities, Viscosities, and Densities of N-Methoxymethyl- and N-Butyl-N-methylpyrrolidinium Ionic Liquids with the Bis(fluorosulfonyl)amide Anion. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 751-755	2.8	47
24	Fluorination effects on rotational correlation times of tris(β-diketonato)aluminum(III) in CO <sub>2</sub> by <sup>27</sup> Al NMR relaxation measurements. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 10622-30	3.4	5
23	New Ionic Liquids Containing Fluorosulfonyl(trifluoromethylsulfonyl)amide and 5-Phosphoniaspiro[4.4]nonan. <i>ECS Transactions</i> , <b>2010</b> , 33, 35-40	1	2
22	Interactions of perfluoroalkyltrifluoroborate anions with Li <sup>+</sup> ion and imidazolium cation: effects of perfluoroalkyl chain on motion of ions in ionic liquids. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 11390-6	3.4	40
21	Alkoxy chains in ionic liquid anions; effect of introducing ether oxygen into perfluoroalkylborate on physical and thermal properties. <i>Chemical Communications</i> , <b>2010</b> , 46, 1730-2	5.8	37
20	Proton Conduction Properties of Sulfonicacid Type Polymer Gel Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3021-3028	3.8	3
19	Direct measurements of ionic mobility of ionic liquids using the electric field applying pulsed gradient spin-echo NMR. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 8466-8	3.4	49

18	Ion Mobility of 1-Ethyl-3-methylimidazolium Tetrafluoroborate and 1-Ethyl-3-methylimidazolium Bis(trifluorosulfonyl)amide Ionic Liquids. <i>ECS Transactions</i> , <b>2009</b> , 25, 23-29	1	2
17	Ionization condition of lithium ionic liquid electrolytes under the solvation effect of liquid and solid solvents. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 3357-64	3-4	49
16	Low Melting and Electrochemically Stable Ionic Liquids Based on Asymmetric Fluorosulfonyl(trifluoromethylsulfonyl)amide. <i>Chemistry Letters</i> , <b>2008</b> , 37, 1020-1021	1-7	59
15	Effects of hydroxyl groups on binary diffusion coefficients of amino acids in dilute aqueous solutions. <i>Fluid Phase Equilibria</i> , <b>2008</b> , 264, 18-22	2-5	15
14	Existing condition and migration property of ions in lithium electrolytes with ionic liquid solvent. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 11794-802	3-4	109
13	Infinite Dilution Binary Diffusion Coefficients of Several Amino Acids in Water over a Temperature Range from (293.2 to 333.2) K with the Taylor Dispersion Technique. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 1705-1710	2-8	47
12	Solution structures of 1-butyl-3-methylimidazolium hexafluorophosphate ionic liquid saturated with CO <sub>2</sub> : Experimental evidence of specific anion-CO <sub>2</sub> interaction. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 13847-50	3-4	78
11	Water-induced Acceleration of Transport Properties in Hydrophobic 1-Butyl-3-methylimidazolium Hexafluorophosphate Ionic Liquid. <i>Chemistry Letters</i> , <b>2005</b> , 34, 324-325	1-7	35
10	Effects of alkyl chain on transport properties in 1-alkyl-3-methylimidazolium hexafluorophosphates. <i>Journal of Molecular Liquids</i> , <b>2005</b> , 119, 77-81	6	29
9	Self-diffusion coefficients of 1-butyl-3-methylimidazolium hexafluorophosphate with pulsed-field gradient spin-echo NMR technique. <i>Fluid Phase Equilibria</i> , <b>2005</b> , 228-229, 329-333	2-5	79
8	Development of High-Pressure Electric Conductivity Cell and its Application: Pressure Effect of Carbon Dioxide on Electric Conductivity of Ionic Liquid. <i>Electrochemistry</i> , <b>2004</b> , 72, 703-705	1-2	13
7	High-Pressure <sup>19</sup> F NMR Measurements of a Series of Fluorinated Benzenes in Supercritical Carbon Dioxide. <i>Journal of Solution Chemistry</i> , <b>2004</b> , 33, 863-874	1-8	12
6	<sup>19</sup> F NMR chemical shifts of CF <sub>4</sub> in CO <sub>2</sub> over a wide pressure range at different temperatures. <i>Magnetic Resonance in Chemistry</i> , <b>2003</b> , 41, 75-76	2-1	3
5	Experimental Determination of Reorientational Correlation Time of CO <sub>2</sub> over a Wide Range of Density and Temperature. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12003-12008	3-4	25
4	High-pressure NMR studies on solvation structure in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , <b>2002</b> , 194-197, 859-868	2-5	16
3	A Novel High-Pressure NMR Cell Consisting of Double Tube Structure for the Convenient On-Line Measurements. <i>Chemistry Letters</i> , <b>2002</b> , 31, 118-119	1-7	8
2	<sup>9</sup> Be NMR Relaxation Measurements of Bis(acetylacetonato)beryllium(II) in Liquid and Supercritical Carbon Dioxide: A Clear Evidence of Near-Critical Solvation Effect on Rotational Correlation Time. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 11114-11119	3-4	16
1	Determination of anisotropic solvation structure of octafluorotoluene in supercritical carbon dioxide by means of solvent-induced <sup>19</sup> F NMR chemical shift. <i>Chemical Physics Letters</i> , <b>2001</b> , 338, 95-100 <sup>2-5</sup>		11

