

Tatsuya Umecky

List of Publications by Year in descending order

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54
papers

1,409
citations

279798

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345221

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docs citations

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times ranked

1451
citing authors

#	ARTICLE	IF	CITATIONS
1	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6244-6252.	2.6	43
2	CO ₂ absorption features of 1-ethyl-3-methylimidazolium ionic liquids with 2,4-pentanedionate and its fluorine derivatives. <i>Journal of CO₂ Utilization</i> , 2019, 31, 75-84.	6.8	11
3	Development of CO ₂ Separation Technology Using Ionic Liquids. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2018, 67, 514-520.	0.2	0
4	In-Situ Observation of Functional Solvents at High Pressures. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2018, 28, 88-94.	0.0	0
5	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> , 2017, 121, 4864-4872.	2.6	7
6	Complex formation of nickel(II) with dimethyl sulfoxide, methanol, and acetonitrile in a TFSA ²⁻ -based ionic liquid of [C ₂ mim][TFSA]. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31335-31344.	2.8	7
7	CO ₂ Absorption Properties and Mechanisms for 1-Ethyl-3-methylimidazolium Ether-Functionalized Carboxylates. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12949-12961.	3.7	18
8	Solvent-Dependent Properties and Higher-Order Structures of Aryl Alcohol + Surfactant Molecular Gels. <i>Langmuir</i> , 2016, 32, 4352-4360.	3.5	11
9	Effect of partial pressure on CO ₂ solubility in ionic liquid mixtures of 1-butyl-3-methylimidazolium acetate and 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide. <i>Fluid Phase Equilibria</i> , 2016, 420, 74-82.	2.5	17
10	CO ₂ 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> , 2016, 217, 112-119.	4.9	55
11	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> , 2016, 120, 513-526.	2.6	24
12	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> , 2015, 16, 3190-3199.	2.1	9
13	Solvation structure and dynamics of Li ⁺ 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> , 2015, 209, 557-562.	4.9	13
14	NMR Studies on Solution Structures of Methanol and Ethanol Saturated with CO ₂ . <i>Journal of Solution Chemistry</i> , 2014, 43, 1539-1549.	1.2	2
15	CO ₂ absorption properties, densities, viscosities, and electrical conductivities of ethylimidazolium and 1-ethyl-3-methylimidazolium ionic liquids. <i>Fluid Phase Equilibria</i> , 2014, 362, 300-306.	2.5	58
16	Microscopic interactions of the imidazolium-based ionic liquid with molecular liquids depending on their electron-donicity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23627-23638.	2.8	43
17	CO ₂ Solubilities in Ammonium Bis(trifluoromethanesulfonyl)amide Ionic Liquids: Effects of Ester and Ether Groups. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1435-1440.	1.9	28
18	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> , 2014, 80, 401-407.	1.6	2

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19	Structures of Naphtholâ€“AOT Self-assembly Organogels and Their Applications to Dispersing Media of Rare-earth Complexes. <i>Chemistry Letters</i> , 2014, 43, 1861-1863.	1.3	6
20	Electrical Conductivities, Viscosities, and Densities of <i>N</i> -Acetoxyethyl- <i>N</i> , <i>N</i> -dimethyl- <i>N</i> -ethylammonium and <i>N</i> -Dimethyl- <i>N</i> -ethyl- <i>N</i> -methoxyethoxyethylammonium Bis(trifluoromethanesulfonyl)amide and Their Nonfunctionalized Analogues. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 370-376.	1.9	33
21	CO ₂ solubility and physical properties of <i>N</i> -(2-hydroxyethyl)pyridinium bis(trifluoromethanesulfonyl)amide. <i>Fluid Phase Equilibria</i> , 2013, 357, 64-70.	2.5	25
22	Pressureâ€“volumeâ€“temperatureâ€“composition relations for carbon dioxide+pyrrolidinium-based ionic liquid binary systems. <i>Fluid Phase Equilibria</i> , 2013, 360, 253-259.	2.5	34
23	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 & Engineering Data</i> , 2013, 58, 2848-2853.	1.9	15
24	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> , 2013, 15, 20565.	2.8	11
25	Effect of CO ₂ dissolution on electrical conductivity and self-diffusion coefficients of 1-butyl-3-methylimidazolium hexafluorophosphate ionic liquid. <i>Fluid Phase Equilibria</i> , 2013, 357, 76-79.	2.5	10
26	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 & Engineering Data</i> , 2013, 58, 1909-1917.	1.9	27
27	SANS, Infrared, and ⁷ Li and ²³ Na NMR Studies on Phase Separation of Alkali Halideâ€“Acetonitrileâ€“Water Mixtures by Cooling. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2438-2448.	2.6	7
28	Effects of Dissolved Water on Li ⁺ Solvation in 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide Ionic Liquid Studied by NMR. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16219-16226.	2.6	18
29	Electrical Conductivities, Viscosities, and Densities of <i>N</i> -Methoxymethyl- and <i>N</i> -Butyl- <i>N</i> -methylpyrrolidinium Ionic Liquids with the Bis(fluorosulfonyl)amide Anion. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 751-755.	1.9	48
30	Fluorination Effects on Rotational Correlation Times of Tris(Î²-diketonato)aluminum(III) in CO ₂ by ²⁷ Al NMR Relaxation Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10622-10630.	2.6	7
31	Ion Mobility of 1-Ethyl-3-methylimidazolium Tetrafluoroborate and 1-Ethyl-3-methylimidazolium Bis(trifluorosulfonyl)amide Ionic Liquids. <i>ECS Transactions</i> , 2010, 25, 23-29.	0.5	5
32	Interactions of Perfluoroalkyltrifluoroborate Anions with Cations: Effects of Perfluoroalkyl Chain Length on Motion of Ions in Ionic Liquids. <i>ECS Transactions</i> , 2010, 33, 685-689.	0.5	0
33	New Ionic Liquids Containing Fluorosulfonyl(trifluoromethylsulfonyl)amide and 5-Phosphoniaspiro[4.4]nonan. <i>ECS Transactions</i> , 2010, 33, 35-40.	0.5	2
34	Interactions of Perfluoroalkyltrifluoroborate Anions with Li Ion and Imidazolium Cation: Effects of Perfluoroalkyl Chain on Motion of Ions in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11390-11396.	2.6	45
35	Alkoxy chains in ionic liquid anions; effect of introducing ether oxygen into perfluoroalkylborate on physical and thermal properties. <i>Chemical Communications</i> , 2010, 46, 1730.	4.1	43
36	Proton Conduction Properties of Sulfonicacid Type Polymer Gel Electrolytes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3021-3028.	3.1	3

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37	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> , 2009, 113, 8466-8468.	2.6	60
38	Effects of hydroxyl groups on binary diffusion coefficients of α -amino acids in dilute aqueous solutions. <i>Fluid Phase Equilibria</i> , 2008, 264, 18-22.	2.5	17
39	Ionization Condition of Lithium Ionic Liquid Electrolytes under the Solvation Effect of Liquid and Solid Solvents. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3357-3364.	2.6	51
40	Low Melting and Electrochemically Stable Ionic Liquids Based on Asymmetric Fluorosulfonyl(trifluoromethylsulfonyl)amide. <i>Chemistry Letters</i> , 2008, 37, 1020-1021.	1.3	65
41	Existing Condition and Migration Property of Ions in Lithium Electrolytes with Ionic Liquid Solvent. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11794-11802.	2.6	121
42	Infinite Dilution Binary Diffusion Coefficients of Several α -Amino Acids in Water over a Temperature Range from (293.2 to 333.2) K with the Taylor Dispersion Technique. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1705-1710.	1.9	55
43	Water-induced Acceleration of Transport Properties in Hydrophobic 1-Butyl-3-methylimidazolium Hexafluorophosphate Ionic Liquid. <i>Chemistry Letters</i> , 2005, 34, 324-325.	1.3	38
44	Effects of alkyl chain on transport properties in 1-alkyl-3-methylimidazolium hexafluorophosphates. <i>Journal of Molecular Liquids</i> , 2005, 119, 77-81.	4.9	29
45	Self-diffusion coefficients of 1-butyl-3-methylimidazolium hexafluorophosphate with pulsed-field gradient spin-echo NMR technique. <i>Fluid Phase Equilibria</i> , 2005, 228-229, 329-333.	2.5	87
46	Solution Structures of 1-Butyl-3-methylimidazolium Hexafluorophosphate Ionic Liquid Saturated with CO ₂ : Experimental Evidence of Specific Anion-CO ₂ Interaction. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13847-13850.	2.6	87
47	Development of High-Pressure Electric Conductivity Cell and its Application: Pressure Effect of Carbon Dioxide on Electric Conductivity of Ionic Liquid. <i>Electrochemistry</i> , 2004, 72, 703-705.	1.4	13
48	High-Pressure ¹⁹ F NMR Measurements of a Series of Fluorinated Benzenes in Supercritical Carbon Dioxide. <i>Journal of Solution Chemistry</i> , 2004, 33, 863-874.	1.2	12
49	¹⁹ F NMR chemical shifts of CF ₄ in CO ₂ over a wide pressure range at different temperatures. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 75-76.	1.9	4
50	Experimental Determination of Reorientational Correlation Time of CO ₂ over a Wide Range of Density and Temperature. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12003-12008.	2.6	25
51	A Novel High-Pressure NMR Cell Consisting of Double Tube Structure for the Convenient On-Line Measurements. <i>Chemistry Letters</i> , 2002, 31, 118-119.	1.3	9
52	⁹ 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> , 2002, 106, 11114-11119.	2.6	19
53	High-pressure NMR studies on solvation structure in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2002, 194-197, 859-868.	2.5	18
54	Determination of anisotropic solvation structure of octafluorotoluene in supercritical carbon dioxide by means of solvent-induced ¹⁹ F NMR chemical shift. <i>Chemical Physics Letters</i> , 2001, 338, 95-100.	2.6	12