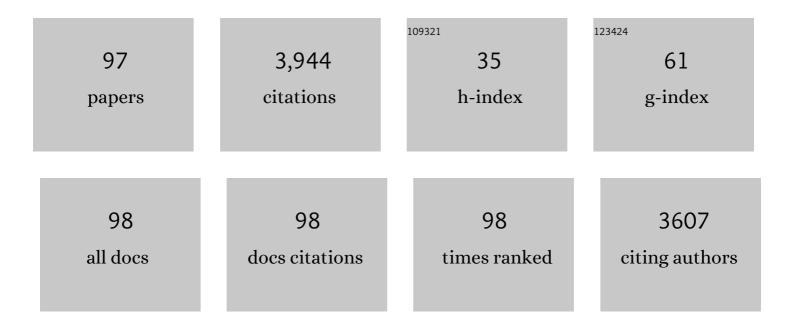
## Toshiyuki Takamuku

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Conformational Equilibrium of Bis(trifluoromethanesulfonyl) Imide Anion of a Room-Temperature Ionic Liquid:Â Raman Spectroscopic Study and DFT Calculations. Journal of Physical Chemistry B, 2006, 110, 8179-8183.	2.6	333
2	Liquid Structure of Acetonitrileâ^'Water Mixtures by X-ray Diffraction and Infrared Spectroscopy. Journal of Physical Chemistry B, 1998, 102, 8880-8888.	2.6	270
3	Hydrogen-Bonded Cluster Formation and Hydrophobic Solute Association in Aqueous Solutions of Ethanol. The Journal of Physical Chemistry, 1995, 99, 462-468.	2.9	190
4	Liquid Structure of Room-Temperature Ionic Liquid, 1-Ethyl-3-methylimidazolium Bis-(trifluoromethanesulfonyl) Imide. Journal of Physical Chemistry B, 2008, 112, 4329-4336.	2.6	159
5	Thermal Property, Structure, and Dynamics of Supercooled Water in Porous Silica by Calorimetry, Neutron Scattering, and NMR Relaxation. Journal of Physical Chemistry B, 1997, 101, 5730-5739.	2.6	147
6	Experimental evidences for molecular origin of low- <i>Q</i> peak in neutron/x-ray scattering of 1-alkyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide ionic liquids. Journal of Chemical Physics, 2011, 135, 244502.	3.0	140
7	Anion Conformation of Low-Viscosity Room-Temperature Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(fluorosulfonyl) Imide. Journal of Physical Chemistry B, 2007, 111, 12829-12833.	2.6	127
8	Exposure assessment of organophosphorus and organobromine flame retardants via indoor dust from elementary schools and domestic houses. Chemosphere, 2015, 123, 17-25.	8.2	123
9	Structure of Clusters in Ethanol–Water Binary Solutions Studied by Mass Spectrometry and X-Ray Diffraction. Bulletin of the Chemical Society of Japan, 1995, 68, 1775-1783.	3.2	120
10	Effect of Water on Structure of Hydrophilic Imidazolium-Based Ionic Liquid. Journal of Physical Chemistry B, 2009, 113, 10817-10824.	2.6	109
11	X-ray diffraction studies on methanol–water, ethanol–water, and 2-propanol–water mixtures at low temperatures. Journal of Molecular Liquids, 2005, 119, 133-146.	4.9	85
12	Structure and dynamics of 1,4-dioxane-water binary solutions studied by X-ray diffraction, mass spectrometry, and NMR relaxation. Journal of Molecular Liquids, 1999, 83, 163-177.	4.9	78
13	Effects of the alkyl-chain length on the mixing state of imidazolium-based ionic liquid–methanol solutions. Physical Chemistry Chemical Physics, 2010, 12, 12316.	2.8	78
14	Large-angle X-ray scattering, small-angle neutron scattering, and NMR relaxation studies on mixing states of 1,4-dioxane-water, 1,3-dioxane-water, and tetrahydrofuran-water mixtures. Journal of Molecular Liquids, 2003, 103-104, 143-159.	4.9	76
15	Liquid structure and conformation of a low-viscosity ionic liquid, N-methyl-N-propyl-pyrrolidinium bis(fluorosulfonyl) imide studied by high-energy X-ray scattering. Journal of Molecular Liquids, 2008, 143, 64-69.	4.9	75
16	Structure and dynamics of hexafluoroisopropanol-water mixtures by x-ray diffraction, small-angle neutron scattering, NMR spectroscopy, and mass spectrometry. Journal of Chemical Physics, 2003, 119, 6132-6142.	3.0	70
17	Large-Angle X-ray Scattering and Small-Angle Neutron Scattering Study on Phase Separation of Acetonitrileâ^'Water Mixtures by Addition of NaCl. Journal of Physical Chemistry B, 2001, 105, 6236-6245.	2.6	66
18	Structure of Clusters in Methanol-Water Binary Solutions Studied by Mass Spectrometry and X-ray Diffraction. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2000, 55, 513-525.	1.5	63

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19	Clusters of Imidazolium-Based Ionic Liquid in Benzene Solutions. Journal of Physical Chemistry B, 2011, 115, 8518-8527.	2.6	62
20	A New Proton Conductive Liquid with No Ions: Pseudoâ€Protic Ionic Liquids. Chemistry - A European Journal, 2013, 19, 11522-11526.	3.3	60
21	Intermolecular interactions in mixtures of 1-n-butyl-3-methylimidazolium acetate and water: Insights from IR, Raman, NMR spectroscopy and quantum chemistry calculations. Journal of Molecular Liquids, 2015, 210, 227-237.	4.9	58
22	Structure of 1-Propanol–Water Mixtures Investigated by Large-Angle X-ray Scattering Technique. Journal of Solution Chemistry, 2004, 33, 641-660.	1.2	55
23	Liquid structure of N-butyl-N-methylpyrrolidinium bis-(trifluoromethanesulfonyl) amide ionic liquid studied by large angle X-ray scattering and molecular dynamics simulations. Journal of Molecular Liquids, 2008, 143, 2-7.	4.9	54
24	Thermal Properties and Mixing State of Ethylene Glycolâ^'Water Binary Solutions by Calorimetry, Large-Angle X-ray Scattering, and Small-Angle Neutron Scattering. Journal of Physical Chemistry B, 2006, 110, 12372-12379.	2.6	53
25	Ion–ion interaction in room temperature ionic liquid 1-ethyl-3-methylimidazolium tetrafluoroborate studied by large angle X-ray scattering experiment and molecular dynamics simulations. Journal of Molecular Liquids, 2009, 147, 77-82.	4.9	53
26	NaCl-Induced Phase Separation of 1,4-Dioxaneâ^'Water Mixtures Studied by Large-Angle X-ray Scattering and Small-Angle Neutron Scattering Techniques. Journal of Physical Chemistry B, 2001, 105, 10101-10110.	2.6	51
27	Liquid Structure of Acetic Acidâ^'Water and Trifluoroacetic Acidâ^'Water Mixtures Studied by Large-Angle X-ray Scattering and NMR. Journal of Physical Chemistry B, 2007, 111, 9270-9280.	2.6	48
28	Hydrogen bonding in ethanol–water and trifluoroethanol–water mixtures studied by NMR and molecular dynamics simulation. Journal of Molecular Liquids, 2016, 217, 3-11.	4.9	47
29	Liquid Structure and Preferential Solvation of Metal Ions in Solvent Mixtures of N,N-Dimethylformamide and N-Methylformamide. Journal of Physical Chemistry A, 2006, 110, 1798-1804.	2.5	46
30	Liquid Structure of 1-Propanol by Molecular Dynamics Simulations and X-Ray Scattering. Journal of Solution Chemistry, 2004, 33, 797-809.	1.2	43
31	Microscopic interactions of the imidazolium-based ionic liquid with molecular liquids depending on their electron-donicity. Physical Chemistry Chemical Physics, 2014, 16, 23627-23638.	2.8	43
32	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. Journal of Physical Chemistry B, 2019, 123, 6244-6252.	2.6	43
33	Scandium(III) hydration in aqueous solution from X-ray diffraction and X-ray absorption fine structure measurements. Chemical Physics Letters, 1997, 274, 485-490.	2.6	42
34	Effect of Methylation at the C2 Position of Imidazolium on the Structure of Ionic Liquids Revealed by Large Angle X-ray Scattering Experiments and MD Simulations. Chemistry Letters, 2009, 38, 340-341.	1.3	42
35	An X-Ray Diffraction Study on the Structure of Solvated Cadmium(II) Ion and Tetrathiocyanatocadmate(II) Complex inN,N-Dimethylformamide. Bulletin of the Chemical Society of Japan, 1989, 62, 1875-1879.	3.2	41
36	Structure and Dynamics of Halogenoethanolâ^'Water Mixtures Studied by Large-Angle X-ray Scattering, Small-Angle Neutron Scattering, and NMR Relaxation. Journal of Physical Chemistry A, 2005, 109, 7667-7676.	2.5	37

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37	Heterogeneity of acetonitrile–water mixtures in the temperature range 279–307ÂK studied by small-angle neutron scattering technique. Journal of Molecular Liquids, 2007, 136, 147-155.	4.9	36
38	Large-Angle X-ray Scattering Investigation of the Structure of 2-Propanol–Water Mixtures. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2002, 57, 982-994.	1.5	31
39	Neutron Scattering and Dielectric Studies on Dynamics of Methanol and Ethanol Confined in MCM-41. Journal of Physical Chemistry C, 2008, 112, 14385-14393.	3.1	31
40	Aggregation of Imidazolium Ionic Liquids in Molecular Liquids Studied by Small-Angle Neutron Scattering and NMR. Analytical Sciences, 2008, 24, 1285-1290.	1.6	30
41	Local Structure in Terms of Nearest-Neighbor Approach in 1-Butyl-3-methylimidazolium-Based Ionic Liquids: MD Simulations. Journal of Physical Chemistry B, 2016, 120, 5029-5041.	2.6	30
42	Preferential Solvation in Aqueous–Organic Mixed Solvents Using Solvatochromic Indicators. Journal of Solution Chemistry, 2002, 31, 381-395.	1.2	29
43	Structure of Methanol Confined in MCM-41 Investigated by Large-Angle X-ray Scattering Technique. Journal of Physical Chemistry B, 2005, 109, 892-899.	2.6	29
44	ATR-IR spectroscopic observation on intermolecular interactions in mixtures of imidazolium-based ionic liquids C n mimTFSA ( n = 2–12) with DMSO. Journal of Molecular Liquids, 2017, 232, 431-439.	4.9	29
45	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. Journal of Physical Chemistry B. 2016. 120. 513-526.	2.6	24
46	Structure of Aqueous Mixtures of NN-Dimethylacetamide Studied by Infrared Spectroscopy, X-ray Diffraction, and Mass Spectrometry. Journal of Physical Chemistry B, 2003, 107, 6070-6078.	2.6	23
47	Solvation of the Amphiphilic Diol Molecule in Aliphatic Alcoholâ^'Water and Fluorinated Alcoholâ^'Water Solutions. Journal of Physical Chemistry B, 2010, 114, 4252-4260.	2.6	23
48	Competition between Cation–Solvent and Cation–Anion Interactions in Imidazolium Ionic Liquids with Polar Aprotic Solvents. ChemPhysChem, 2017, 18, 718-721.	2.1	21
49	Hydrogen bonds of the imidazolium rings of ionic liquids with DMSO studied by NMR, soft X-ray spectroscopy, and SANS. Physical Chemistry Chemical Physics, 2018, 20, 12858-12869.	2.8	21
50	An extended Johnson–Furter equation to salting-out phase separation of aqueous solution of water-miscible organic solvents. Fluid Phase Equilibria, 2001, 192, 1-12.	2.5	19
51	Effects of Dissolved Water on Li <sup>+</sup> Solvation in 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)amide Ionic Liquid Studied by NMR. Journal of Physical Chemistry B, 2013, 117, 16219-16226.	2.6	18
52	N,N-Dimethylformamide-induced phase separation of hexafluoroisopropanol–water mixtures. Physical Chemistry Chemical Physics, 2011, 13, 11222.	2.8	16
53	Amide-induced phase separation of hexafluoroisopropanol–water mixtures depending on the hydrophobicity of amides. Physical Chemistry Chemical Physics, 2012, 14, 8335.	2.8	16
54	Intermolecular interactions, ion solvation, and association in mixtures of 1â€ <i>n</i> â€butylâ€3â€methylimidazolium hexafluorophosphate and γâ€butyrolactone: insights from Raman spectroscopy. Journal of Raman Spectroscopy, 2015, 46, 339-352.	2.5	16

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55	Solvation Properties of Aliphatic Alcohol–Water and Fluorinated Alcohol–Water Solutions for Amide Molecules Studied by IR and NMR Techniques. Journal of Solution Chemistry, 2011, 40, 2046-2056.	1.2	15
56	Distance Angle Descriptors of the Interionic and Ion–Solvent Interactions in Imidazolium-Based Ionic Liquid Mixtures with Aprotic Solvents: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2019, 123, 6065-6075.	2.6	15
57	Calorimetric and Raman Spectroscopic Studies of Cadmium(II) Thiocyanato Complexes inN,N-Dimethylformamide. Bulletin of the Chemical Society of Japan, 1988, 61, 3901-3906.	3.2	14
58	A Rayleigh light scattering study on mixing states of 2-propanol–water binary mixtures widely used as mobile phase in separation. Talanta, 2001, 54, 69-77.	5.5	14
59	Aggregation of 1-dodecyl-3-methylimidazolium nitrate in water and benzene studied by SANS and 1H NMR. Physical Chemistry Chemical Physics, 2012, 14, 11070.	2.8	14
60	Small-Angle Neutron Scattering Study on Aggregation in Acetonitrile–D2O and Acetonitrile–D2O–NaCl Mixtures. Chemistry Letters, 2000, 29, 878-879.	1.3	13
61	Thermal Properties and Mixing State of Diolâ `Water Mixtures Studied by Calorimetry, Large-Angle X-Ray Scattering, and NMR Relaxation. Journal of Physical Chemistry B, 2008, 112, 13300-13309.	2.6	13
62	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. Journal of Molecular Liquids, 2015, 209, 557-562.	4.9	13
63	Local structure of dilute aqueous DMSO solutions, as seen from molecular dynamics simulations. Journal of Chemical Physics, 2017, 146, 234507.	3.0	13
64	Microinhomogeneity for Aqueous Mixtures of Water-miscible Organic Solvents. Journal of the Ceramic Society of Japan, 2007, 115, 861-866.	1.1	12
65	Correlation between Soft X-ray Absorption and Emission Spectra of the Nitrogen Atoms within Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2016, 120, 7480-7487.	2.6	12
66	SANS, ATR-IR, and 1D- and 2D-NMR studies of mixing states of imidazolium-based ionic liquid and aryl solvents. Physical Chemistry Chemical Physics, 2013, 15, 20565.	2.8	11
67	Solvent-Dependent Properties and Higher-Order Structures of Aryl Alcohol + Surfactant Molecular Gels. Langmuir, 2016, 32, 4352-4360.	3.5	11
68	CO2 absorption features of 1-ethyl-3-methylimidazolium ionic liquids with 2,4-pentanedionate and its fluorine derivatives. Journal of CO2 Utilization, 2019, 31, 75-84.	6.8	11
69	A novel preparation method of lead-based layered perovskite Langmuir films with a negligible amount of PbBr2. New Journal of Chemistry, 2013, 37, 568.	2.8	10
70	A Study of the Solvation Structure of <scp>l</scp> â€Leucine in Alcohol–Water Binary Solvents through Molecular Dynamics Simulations and FTIR and NMR Spectroscopy. ChemPhysChem, 2015, 16, 3190-3199.	2.1	9
71	Low-Frequency Spectra of 1-Methyl-3-octylimidazolium Tetrafluoroborate Mixtures with Methanol, Acetonitrile, and Dimethyl Sulfoxide: A Combined Study of Femtosecond Raman-Induced Kerr Effect Spectroscopy and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020, 124, 7857-7871.	2.6	9
72	Raman Spectroscopic and X-ray Diffraction Studies on Concentrated Aqueous Zinc (II) Bromide Solution at High Temperatures. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1992, 47, 485-492.	1.5	8

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73	Solvation power of HFIP for the hydrophilic and the hydrophobic moieties of l-leucine studied by MD, IR, and NMR techniques. Journal of Molecular Liquids, 2017, 230, 261-270.	4.9	8
74	NMR study on dynamics of water molecules in concentrated aqueous zinc(II) bromide solutions at various temperatures. The Journal of Physical Chemistry, 1992, 96, 9487-9492.	2.9	7
75	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. Journal of Physical Chemistry B, 2013, 117, 2438-2448.	2.6	7
76	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. Journal of Physical Chemistry B, 2017, 121, 4864-4872.	2.6	7
77	Complex formation of nickel( <scp>ii</scp> ) with dimethyl sulfoxide, methanol, and acetonitrile in a TFSA <sup>â^'</sup> -based ionic liquid of [C <sub>2</sub> mim][TFSA]. Physical Chemistry Chemical Physics, 2017, 19, 31335-31344.	2.8	7
78	Effects of the long octyl chain on complex formation of nickel( <scp>ii</scp> ) with dimethyl sulfoxide, methanol, and acetonitrile in ionic liquid of [C <sub>8</sub> mim][TFSA]. Physical Chemistry Chemical Physics, 2019, 21, 3154-3163.	2.8	7
79	EXAFS and X-Ray Diffraction Studies on the Structure of the Tetrathiocyanatocadmate(II) Complex in Dimethyl Sulfoxide. Bulletin of the Chemical Society of Japan, 1992, 65, 2104-2113.	3.2	6
80	Structure of Supercooled Aqueous Zinc(II) Bromide Solutions by Raman and X-Ray Scattering Methods. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1992, 47, 841-848.	1.5	6
81	Structures of Naphthol–AOT Self-assembly Organogels and Their Applications to Dispersing Media of Rare-earth Complexes. Chemistry Letters, 2014, 43, 1861-1863.	1.3	6
82	Voronoi Polyhedra as a Tool for the Characterization of Inhomogeneous Distribution in 1-Butyl-3-methylimidazolium Cation-Based Ionic Liquids. Journal of Physical Chemistry B, 2020, 124, 10419-10434.	2.6	6
83	Conformational change of L-phenylalanine in fluorinated alcohol-water mixed solvents studied by IR, NMR, and MD simulations. Journal of Molecular Liquids, 2019, 290, 111192.	4.9	5
84	Mixing states of imidazolium-based ionic liquid, [C <sub>4</sub> mim][TFSI], with cycloethers studied by SANS, IR, and NMR experiments and MD simulations. Physical Chemistry Chemical Physics, 2020, 22, 5332-5346.	2.8	4
85	Solvation Structures of Tetraethylammonium Bromide and Tetrafluoroborate in Aqueous Binary Solvents with Ethanol, Trifluoroethanol, and Acetonitrile. Journal of Physical Chemistry B, 2020, 124, 5009-5020.	2.6	4
86	X-ray Diffraction Studies on Supercooled Aqueous Lithium Bromide and Lithium Iodide Solutions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1997, 52, 521-527.	1.5	3
87	Hydrogen bonding in protic and aprotic amide mixtures: Low-frequency Raman spectroscopy, small-angle neutron scattering, and molecular dynamics simulations. Journal of Molecular Liquids, 2017, 238, 518-522.	4.9	3
88	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. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 80, 401-407.	1.6	2
89	Aggregation of the Dipeptide Leu–Gly in Alcohol–Water Binary Solvents Elucidated from the Solvation Structure for Each Moiety. Journal of Physical Chemistry B, 2021, 125, 240-252.	2.6	2
90	Assessment of the UCST-type liquid–liquid phase separation mechanism of imidazolium-based ionic liquid, [C8mim][TFSI], and 1,4-dioxane by SANS, NMR, IR, and MD simulations. Physical Chemistry Chemical Physics, 2021, 23, 24449-24463.	2.8	2

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91	Anion Effects on the Mixing States of 1-Methyl-3-octylimidazolium Tetrafluoroborate and Bis(trifluoromethylsulfonyl)amide with Methanol, Acetonitrile, and Dimethyl Sulfoxide on the Meso- and Microscopic Scales. Journal of Physical Chemistry B, 2021, 125, 13896-13907.	2.6	2
92	Heat-induced phase separation of alkali chloride–HFIP–water mixtures. Journal of Molecular Liquids, 2014, 189, 113-121.	4.9	1
93	Mixing States of Ionic Liquid-Molecular Liquid Mixed Solvents and Their Effects on Metal Complex Formation. Physical Chemistry in Action, 2021, , 233-253.	0.6	1
94	Local Structure in Mixtures of Ionic Liquid with Molecular Solvent: Vibration Spectroscopy, NMR and Molecular Dynamics Simulation. Physical Chemistry in Action, 2021, , 289-334.	0.6	1
95	Effects of the self-hydrogen bonding among formamide molecules on UCST-type liquidâ^'liquid phase separation of binary solutions with imidazolium-based ionic liquid, [C <i><sub>n</sub></i> mim][TFSI], studied by NMR, IR, MD simulations, and SANS. Physical Chemistry Chemical Physics, 0, , .	2.8	1
96	Raman Scattering and X-ray Diffraction Studies on Zinc(II)Bromide Solutions in Methanol and N,N-Dimethylformamide in the Temperature Range 77-333 K. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 1119-1130.	1.5	0
97	What Kinds of Liquids are Ionic Liquids?. Hamon, 2019, 29, 95-99.	0.0	0