Keiko Nishikawa

List of Publications by Citations

211 papers	5,791 citations	43 h-index	64 g-index
215 ext. papers	6,096 ext. citations	3.3 avg, IF	5.6 L-index

#	Paper	IF	Citations
211	Mixing Schemes in Ionic Liquid□H2O Systems:□A Thermodynamic Study. *Journal of Physical Chemistry B*, **2004**, 108, 19451-19457	3.4	179
210	Structure of an ionic liquid, 1-n-butyl-3-methylimidazolium iodide, studied by wide-angle X-ray scattering and Raman spectroscopy. *Chemical Physics Letters*, **2004**, 392, 460-464	2.5	178
209	Temperature dependence of the concentration fluctuation, the Kirkwood-Buff parameters, and the correlation length of tert-butyl alcohol and water mixtures studied by small-angle x-ray scattering. *The Journal of Physical Chemistry*, **1989**, 93, 6559-6565		131
208	Effect of an "ionic liquid" cation, 1-butyl-3-methylimidazolium, on the molecular organization of H2O. *Journal of Physical Chemistry B*, **2005**, 109, 9014-9	3.4	129
207	Small-angle x-ray scattering study of fluctuations in 1-propanol-water and 2-propanol-water systems. *The Journal of Physical Chemistry*, **1990**, 94, 8334-8338		110
206	Melting and freezing behaviors of prototype ionic liquids, 1-butyl-3-methylimidazolium bromide and its chloride, studied by using a nano-Watt differential scanning calorimeter. *Journal of Physical Chemistry B*, **2007**, 111, 4894-900	3.4	108
205	Small-Angle X-ray Scattering Study of Supercritical Carbon Dioxide. *The Journal of Physical Chemistry*, **1996**, 100, 418-421		107
204	Corrections for Intensity Data in Energy-dispersive X-Ray Diffractometry of Liquids. Application to Carbon Tetrachloride. *Bulletin of the Chemical Society of Japan*, **1984**, 57, 1750-1759	5.1	107
203	Fluctuations in the particle number and concentration and the Kirkwood-Buff parameters of tert-butyl alcohol and water mixtures studied by small-angle x-ray scattering. *The Journal of Physical Chemistry*, **1987**, 91, 3694-3699		105
202	Correlation lengths and density fluctuations in supercritical states of carbon dioxide. *Chemical Physics Letters*, **1995**, 244, 149-152	2.5	97
201	Study of inhomogeneity of supercritical water by small-angle x-ray scattering. *Journal of Chemical Physics*, **2000**, 112, 4203-4211	3.9	96
200	Inhomogeneity of molecular distribution in supercritical fluids. *Chemical Physics Letters*, **2000**, 316, 238-243	2.5	95
199	Phase behaviors of room temperature ionic liquid linked with cation conformational changes: 1-butyl-3-methylimidazolium hexafluorophosphate. *Journal of Physical Chemistry B*, **2010**, 114, 407-11	3.4	94
198	Small-angle x-ray scattering study of fluctuations in ethanol and water mixtures. *The Journal of Physical Chemistry*, **1993**, 97, 10824-10828		91
197	Effects of sputtering conditions on formation of gold nanoparticles in sputter deposition technique. *RSC Advances*, **2011**, 1, 1815	3.7	81
196	Effects of methylation at the 2 position of the cation ring on phase behaviors and conformational structures of imidazolium-based ionic liquids. *Journal of Physical Chemistry B*, **2010**, 114, 9201-8	3.4	79
195	Small-Angle X-ray Scattering Study of Au Nanoparticles Dispersed in the Ionic Liquids 1-Alkyl-3-methylimidazolium Tetrafluoroborate. *Journal of Physical Chemistry C*, **2009**, 113, 3917-3922	3.8	78

194	Conformational analysis of 1-butyl-3-methylimidazolium by CCSD(T) level ab initio calculations: effects of neighboring anions. *Journal of Physical Chemistry B*, **2008**, 112, 7739-47	3.4	77
193	Can Temperature Control the Size of Au Nanoparticles Prepared in Ionic Liquids by the Sputter Deposition Technique?. *Journal of Physical Chemistry C*, **2010**, 114, 11098-11102	3.8	76
192	Synthesis of Gold Nanoparticles in Liquid Polyethylene Glycol by Sputter Deposition and Temperature Effects on their Size and Shape. *Journal of Physical Chemistry C*, **2011**, 115, 3279-3285	3.8	74
191	Microscopic study of ionic liquid-H2O systems: alkyl-group dependence of 1-alkyl-3-methylimidazolium cation. *Journal of Physical Chemistry B*, **2010**, 114, 6323-31	3.4	71
190	Density fluctuation of a van der Waals fluid in supercritical state. *Journal of Chemical Physics*, **2003**, 118, 1341-1346	3.9	69
189	Icebergs or No Icebergs in Aqueous Alcohols?: Composition-Dependent Mixing Schemes. *Journal of Physical Chemistry A*, **2004**, 108, 3873-3877	2.8	67
188	Inhomogeneity of Mixing in Acetonitrile Aqueous Solution Studied by Small-Angle X-ray Scattering. *Journal of Physical Chemistry B*, **2002**, 106, 693-700	3.4	65
187	Surface fractal dimension of microporous carbon fibres by nitrogen adsorption. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 179		65
186	Raman spectral changes of neat CO2 across the ridge of density fluctuation in supercritical region. *Chemical Physics Letters*, **2000**, 320, 323-327	2.5	64
185	Ultrafast Dynamics in Aprotic Molecular Liquids: A Femtosecond Raman-Induced Kerr Effect Spectroscopic Study. *Bulletin of the Chemical Society of Japan*, **2009**, 82, 1347-1366	5.1	63
184	Mesocellular Foam Carbons: Aggregates of Hollow Carbon Spheres with Open and Closed Wall Structures. *Chemistry of Materials*, **2004**, 16, 3860-3866	9.6	63
183	Small-angle X-ray scattering study of the pore structure of carbon fibers prepared from a polymer blend of phenolic resin and polystyrene. *Carbon*, **2001**, 39, 287-290	10.4	59
182	Atom substitution effects of [XF6]- in ionic liquids. 1. Experimental study. *Journal of Physical Chemistry B*, **2009**, 113, 9831-9	3.4	58
181	NMR study on relationships between reorientational dynamics and phase behaviour of room-temperature ionic liquids: 1-alkyl-3-methylimidazolium cations. *Physical Chemistry Chemical Physics*, **2010**, 12, 2959-67	3.6	57
180	Comparison of interionic/intermolecular vibrational dynamics between ionic liquids and concentrated electrolyte solutions. *Journal of Chemical Physics*, **2009**, 131, 244519	3.9	56
179	Small-Angle X-ray-Scattering Study of Supercritical Trifluoromethane. *Journal of Physical Chemistry B*, **1997**, 101, 1413-1418	3.4	56
178	Simple relationship between the Kirkwood-Buff parameters and the fluctuations in the particle number and concentration obtained by small-angle X-ray scattering. *Chemical Physics Letters*, **1986**, 132, 50-54	2.5	53
177	Atom substitution effects of [XF6]- in ionic liquids. 2. Theoretical study. *Journal of Physical Chemistry B*, **2009**, 113, 9840-51	3.4	50

176	Toward understanding the Hofmeister series. 3. Effects of sodium halides on the molecular organization of H2O as probed by 1-propanol. *Journal of Physical Chemistry A*, **2006**, 110, 2072-8	2.8	50
175	Crystal Structure of 1-Butyl-3-methylimidazolium Iodide. *Chemistry Letters*, **2006**, 35, 1400-1401	1.7	50
174	The Construction of an Energy-dispersive X-Ray Diffractometer for Liquids and Its Application to CCl4. *Bulletin of the Chemical Society of Japan*, **1978**, 51, 411-418	5.1	50
173	Fluid behavior at supercritical states studied by small-angle X-ray scattering. *Journal of Supercritical Fluids*, **1998**, 13, 143-148	4.2	49
172	Spectrum of excess partial molar absorptivity. I. Near infrared spectroscopic study of aqueous acetonitrile and acetone. *Journal of Physical Chemistry B*, **2009**, 113, 11928-35	3.4	48
171	Thermodynamic study on phase transitions of poly(benzyl methacrylate) in ionic liquid solvents. *Pure and Applied Chemistry*, **2009**, 81, 1829-1841	2.1	46
170	Liquid Structure of Carbon Tetrachloride and Long-range Correlation. *Bulletin of the Chemical Society of Japan*, **1979**, 52, 293-298	5.1	46
169	Chemical potential and concentration fluctuation in some aqueous alkane-mono-ols at 25oC. *Canadian Journal of Chemistry*, **2003**, 81, 141-149	0.9	43
168	Structural study of tert-butyl alcohol and water mixtures by x-ray diffraction. *The Journal of Physical Chemistry*, **1990**, 94, 6227-6231		43
167	Effects of methylation at position 2 of cation ring on rotational dynamics of imidazolium-based ionic liquids investigated by NMR spectroscopy: [C4mim]Br vs [C4C1mim]Br. *Journal of Physical Chemistry A*, **2011**, 115, 2999-3005	2.8	42
166	Density-fluctuation-induced swelling of polymer thin films in carbon dioxide. *Physical Review Letters*, **2002**, 89, 125506	7.4	42
165	Mixing Schemes for Aqueous Dimethyl Sulfoxide: Support by X-ray Diffraction Data. *Journal of Solution Chemistry*, **2001**, 30, 885-893	1.8	40
164	Is a methyl group always hydrophobic? Hydrophilicity of trimethylamine-N-oxide, tetramethyl urea and tetramethylammonium ion. *Journal of Physical Chemistry B*, **2011**, 115, 2995-3002	3.4	39
163	Dynamics of density fluctuation of supercritical fluid mapped on phase diagram. *Journal of the American Chemical Society*, **2004**, 126, 422-3	16.4	38
162	Terahertz absorption spectra of supercritical CHF3 to investigate local structure through rotational and hindered rotational motions. *Chemical Physics Letters*, **2001**, 341, 86-92	2.5	38
161	NMR study of cation dynamics in three crystalline states of 1-butyl-3-methylimidazolium hexafluorophosphate exhibiting crystal polymorphism. *Journal of Physical Chemistry B*, **2012**, 116, 3780-8	3.4	37
160	Structure Study of Supercritical CO2 near Higher-Order Phase Transition Line by X-ray Diffraction. *Journal of Physical Chemistry B*, **1997**, 101, 7158-7162	3.4	37
159	1H NMR study on reorientational dynamics of an ionic liquid, 1-butyl-3-methylimidazolium bromide, accompanied with phase transitions. *Chemical Physics Letters*, **2008**, 459, 89-93	2.5	37

158	Local density enhancement in neat supercritical fluid due to attractive intermolecular interactions. *Chemical Physics Letters*, **2003**, 368, 209-214	2.5	37
157	Hydrophobicity/hydrophilicity of 1-butyl-2,3-dimethyl and 1-ethyl-3-methylimodazolium ions: toward characterization of room temperature ionic liquids. *Journal of Physical Chemistry B*, **2009**, 113, 14754-60	3.4	36
156	Relative hydrophobicity and hydrophilicity of some "ionic liquid" anions determined by the 1-propanol probing methodology: a differential thermodynamic approach. *Journal of Physical Chemistry B*, **2008**, 112, 2655-60	3.4	36
155	Rhythmic melting and crystallizing of ionic liquid 1-butyl-3-methylimidazolium bromide. *Chemical Physics Letters*, **2008**, 458, 88-91	2.5	35
154	Toward Understanding the Hofmeister Series. 1. Effects of Sodium Salts of Some Anions on the Molecular Organization of H2O. *Journal of Physical Chemistry A*, **2004**, 108, 8533-8541	2.8	34
153	A comparative study of the rotational dynamics of PF6(-) anions in the crystals and liquid states of 1-butyl-3-methylimidazolium hexafluorophosphate: results from 31P NMR spectroscopy. *Journal of Physical Chemistry B*, **2013**, 117, 326-32	3.4	33
152	X-ray scattering study of carbon dioxide at supercritical states. *Chemical Physics Letters*, **1994**, 226, 359-363	2.5	31
151	Development of Apparatus for Simultaneous Measurements of Raman Spectroscopy and High-Sensitivity Calorimetry. *Japanese Journal of Applied Physics*, **2008**, 47, 1775-1779	1.4	30
150	Apparatus for the simultaneous measurement of the X-ray absorption factor developed for a small-angle X-ray scattering beamline. *Journal of Applied Crystallography*, **2007**, 40, 791-795	3.8	30
149	Density fluctuation of supercritical fluids obtained from small-angle X-ray scattering experiment and thermodynamic calculation. *Journal of Supercritical Fluids*, **2004**, 30, 249-257	4.2	30
148	Attractive and Repulsive Intermolecular Interactions of a Polar Molecule: Short-Range Structure of Neat Supercritical CHF3 Investigated by Raman Spectroscopy. *Journal of Physical Chemistry A*, **2004**, 108, 5770-5784	2.8	29
147	The Structure of Polyvanadotungstates. II. The Crystal Structure of K7V5W8O40·12H2O. *Bulletin of the Chemical Society of Japan*, **1975**, 48, 3152-3155	5.1	28
146	K-Edge X-ray Absorption Fine Structure Analysis of Pt/Au Core–Shell Electrocatalyst: Evidence for Short Pt–Pt Distance. *Journal of Physical Chemistry C*, **2014**, 118, 8481-8490	3.8	27
145	Ultraslow dynamics at crystallization of a room-temperature ionic liquid, 1-butyl-3-methylimidazolium bromide. *Journal of Physical Chemistry B*, **2012**, 116, 3991-7	3.4	27
144	Simulation of small-angle X-ray scattering behaviour of activated carbon fibres adsorbing water. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 2763		27
143	X-Ray Diffraction Study of Liquid Water. *Bulletin of the Chemical Society of Japan*, **1980**, 53, 2804-2808	5.1	27
142	The intermolecular arrangement in the plastic crystal (phase Ia) of carbon tetrachloride studied by x-ray diffraction. *Journal of Chemical Physics*, **1981**, 74, 5817-5824	3.9	27
141	Aspect-Ratio Dependence on Formation Process of Gold Nanorods Studied by Time-Resolved Distance Distribution Functions. *Journal of Physical Chemistry C*, **2010**, 114, 3804-3810	3.8	26

140	Characterization of the molecular reorientational dynamics of the neat ionic liquid 1-butyl-3-methylimidazolium bromide in the super cooled state using 1H and 13C NMR spectroscopy. *Magnetic Resonance in Chemistry*, **2009**, 47, 67-70	2.1	26
139	Investigation of structural fluctuation of supercritical benzene by small-angle x-ray scattering. *Journal of Chemical Physics*, **2003**, 119, 1502-1509	3.9	26
138	Comparison between cycloalkyl- and n-alkyl-substituted imidazolium-based ionic liquids in physicochemical properties and reorientational dynamics. *Journal of Physical Chemistry B*, **2012**, 116, 2059-64	3.4	25
137	Transglycosylated rutin-specific non-surface-active nanostructure affects absorption enhancement of flurbiprofen. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 82, 120-6	5.7	25
136	Isomer populations in liquids for 1-isopropyl-3-methylimidazolium bromide and its iodide and their conformational changes accompanying the crystallizing and melting processes. *Journal of Physical Chemistry A*, **2008**, 112, 7543-50	2.8	25
135	Correlation time of density fluctuation for supercritical ethylene studied by dynamic light scattering. *Journal of Chemical Physics*, **2002**, 116, 4985	3.9	25
134	Binding and correlation effects in nitrogen and oxygen, and the correlation effects in neon, as studied by gas-phase x-ray diffraction. *Journal of Chemical Physics*, **1987**, 87, 3753-3757	3.9	25
133	Syntheses and crystal structures of two ionic liquids with halogen-bonding groups: 4,5-dibromo- and 4,5-diiodo-1-butyl-3-methylimidazolium trifluoromethanesulfonates. *Solid State Sciences*, **2010**, 12, 783-788	3.4	23
132	Static inhomogeneity of supercritical ethylene studied by small-angle X-ray scattering. *Chemical Physics*, **2003**, 286, 421-430	2.3	23
131	Structure Model for Liquid Carbon Tetrachloride. *Bulletin of the Chemical Society of Japan*, **1985**, 58, 1215-1219	3.1	23
130	Density fluctuations in aqueous solution of ionic liquid with lower critical solution temperature: Mixture of tetrabutylphosphonium trifluoroacetate and water. *Chemical Physics Letters*, **2015**, 628, 108-112	2.5	22
129	Time evolution of density fluctuation in supercritical region. I. Non-hydrogen-bonded fluids studied by dynamic light scattering. *Journal of Physical Chemistry A*, **2005**, 109, 83-91	2.8	22
128	Anomalous dynamic behavior of ions and water molecules in dilute aqueous solution of 1-butyl-3-methylimidazolium bromide studied by NMR. *Chemical Physics Letters*, **2006**, 427, 87-90	2.5	22
127	How Are Hydrogen Bonds Perturbed in Aqueous NaClO4 Solutions Depending on the Concentration?: A Near Infrared Study of Water. *Journal of Solution Chemistry*, **2004**, 33, 689-698	1.8	22
126	Structure Change of Glass-like Carbon with Heat Treatment, Studied by Small Angle X-Ray Scattering: I. Glass-like Carbon Prepared from Phenolic Resin. *Japanese Journal of Applied Physics*, **1998**, 37, 6486-6491	1.4	22
125	use of reciprocal-space expansion in the analysis of X-ray scattering intensities from liquids. *Chemical Physics Letters*, **1985**, 115, 522-524	2.5	22
124	The temperature dependence of the liquid structure of carbon tetrachloride. *Chemical Physics Letters*, **1979**, 64, 154-157	2.5	22
123	Phase Behavior of a Piperidinium-Based Room-Temperature Ionic Liquid Exhibiting Scanning Rate Dependence. *Journal of Physical Chemistry B*, **2015**, 119, 12552-60	3.4	21

122	Relative hydrophobicity/hydrophilicity of fructose, glucose, sucrose, and trehalose as probed by 1-propanol: a differential approach in solution thermodynamics. *Journal of Physical Chemistry B*, **2007**, 111, 13943-8	3.4	21
121	Intermittent crystallization of an ionic liquid: 1-Isopropyl-3-methylimidazolium bromide. *Chemical Physics Letters*, **2008**, 463, 369-372	2.5	21
120	Structure of Polyvanadotungstates. I. The Crystal Structure of □(CN3H6)4V2W4O19. *Bulletin of the Chemical Society of Japan*, **1975**, 48, 889-892	5.1	21
119	Anion and cation effects on the size control of Au nanoparticles prepared by sputter deposition in imidazolium-based ionic liquids. *Physical Chemistry Chemical Physics*, **2016**, 18, 2339-49	3.6	20
118	How much weaker are the effects of cations than those of anions? The effects of K+ and Cs+ on the molecular organization of liquid H2O. *Journal of Physical Chemistry B*, **2014**, 118, 8744-9	3.4	20
117	Determination of Missing Crystal Structures in the 1-Alkyl-3-methylimidazolium Hexafluorophosphate Series: Implications on Structure□Property Relationships. *Crystal Growth and Design*, **2013**, 13, 5383-5390	3.5	20
116	Melting and Crystallization Behaviors of an Ionic Liquid, 1-Isopropyl-3-methylimidazolium Bromide, Studied by Using Nanowatt-Stabilized Differential Scanning Calorimetry. *Bulletin of the Chemical Society of Japan*, **2009**, 82, 806-812	5.1	20
115	Halogen-bonded and Hydrogen-bonded Network Structures in Crystals of 1-Propyl- and 1-Butyl-4,5-dibromo-3-methylimidazolium Bromides. *Chemistry Letters*, **2009**, 38, 402-403	1.7	20
114	The Effects of Chloride Salts of Some Cations on the Molecular Organization of H2O. Towards Understanding the Hofmeister Series. II. *Bulletin of the Chemical Society of Japan*, **2006**, 79, 1347-1354	5.1	20
113	Spectrum of excess partial molar absorptivity. Part II: a near infrared spectroscopic study of aqueous Na-halides. *Physical Chemistry Chemical Physics*, **2012**, 14, 4433-9	3.6	19
112	Crystal polymorphism of a room-temperature ionic liquid, 1,3-dimethylimidazolium hexafluorophosphate: Calorimetric and structural studies of two crystal phases having melting points of ~50K difference. *Chemical Physics Letters*, **2011**, 517, 162-165	2.5	19
111	Effects of tetramethyl- and tetraethylammonium chloride on H2O: calorimetric and near-infrared spectroscopic study. *Journal of Physical Chemistry B*, **2013**, 117, 877-83	3.4	18
110	Cation and anion dynamics in supercooled and glassy states of the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate: Results from 13C, 31P, and 19F NMR spectroscopy. *Physical Review B*, **2012**, 85,	3.3	18
109	Fluctuations in density and concentration of methanol□water mixtures at 7 MPa and 373, 423 K studied by small-angle X-ray scattering. *Chemical Physics Letters*, **2004**, 389, 29-33	2.5	18
108	A thermodynamic study of aqueous acetonitrile: excess chemical potentials, partial molar enthalpies, entropies and volumes, and fluctuations. *Canadian Journal of Chemistry*, **2000**, 78, 1553-1560	0.9	18
107	Analysis to obtain precise density fluctuation of supercritical fluids by small-angle X-ray scattering. *Chemical Physics*, **2005**, 310, 123-128	2.3	17
106	Comprehensive Conformational and Rotational Analyses of the Butyl Group in Cyclic Cations: DFT Calculations for Imidazolium, Pyridinium, Pyrrolidinium, and Piperidinium. *Journal of Physical Chemistry B*, **2016**, 120, 10336-10349	3.4	17
105	Thermal phase behavior of 1-butyl-3-methylimidazolium hexafluorophosphate: Simultaneous measurements of the melting of two polymorphic crystals by Raman spectroscopy and calorimetry. *Chemical Physics Letters*, **2013**, 584, 79-82	2.5	16

104	Air Oxidation of Carbon Spheres. II. Micropore Development. *Adsorption Science and Technology*, **2006**, 24, 55-64	3.6	16
103	Effects of Na2SO4 and NaClO4 on the Molecular Organization of H2O. *Journal of Physical Chemistry A*, **2004**, 108, 1635-1637	2.8	16
102	Evaluation and Countermeasures of Convective Heat Transfer on Thermal Conductivity Measurement Using the Peltier Effect and Application to Supercritical CO2. *Japanese Journal of Applied Physics*, **1999**, 38, 6840-6845	1.4	16
101	Asphaltene Aggregation Behavior in Bromobenzene Determined By Small-angle X-ray Scattering. *Energy & Fuels*, **2015**, 29, 5737-5743	4.1	15
100	Effects of ethanol and dimethyl sulfoxide on the molecular organization of H2O as probed by 1-propanol. *Journal of Physical Chemistry B*, **2012**, 116, 7328-33	3.4	15
99	High-resolution calorimetry on thermal behavior of glycerol (I): Glass transition, crystallization and melting, and discovery of a solid□solid transition. *Chemical Physics Letters*, **2011**, 506, 217-220	2.5	15
98	Multiple small-angle X-ray scattering analyses of the structure of gold nanorods with unique end caps. *Chemical Physics*, **2009**, 364, 14-18	2.3	15
97	Reciprocal Space Expansion in the Analysis of X-Ray Scattering Intensities from Liquid Carbon Tetrachloride. *Bulletin of the Chemical Society of Japan*, **1986**, 59, 117-120	5.1	15
96	4,5-Dihaloimidazolium-based ionic liquids: effects of halogen-bonding on crystal structures and ionic conductivity. *RSC Advances*, **2013**, 3, 19952	3.7	14
95	Time evolution of density fluctuation in the supercritical region. 2. Comparison of hydrogen- and non-hydrogen-bonded fluids. *Journal of Physical Chemistry A*, **2005**, 109, 7365-70	2.8	14
94	Excess partial molar entropy of alkane-mono-ols in aqueous solutions at 25□C. *Canadian Journal of Chemistry*, **2003**, 81, 150-155	0.9	14
93	Investigation of the pore structure in glass-like carbon prepared from furan resin. *Carbon*, **2001**, 39, 2017-2021	1.4	14
92	Supercritical-fluid cell with device of variable optical path length giving fringe-free terahertz spectra. *Review of Scientific Instruments*, **2000**, 71, 4061	1.7	14
91	Mean Square Deviations of Interatomic Distances in Liquid Carbon Tetrachloride. *Bulletin of the Chemical Society of Japan*, **1985**, 58, 1220-1224	5.1	14
90	Visible photoluminescence of gold nanoparticles prepared by sputter deposition technique in a room-temperature ionic liquid. *Chemical Physics Letters*, **2013**, 586, 100-103	2.5	13
89	Influence of fine particles on carbon deposition in the coke oven chamber. *Fuel*, **1998**, 77, 1141-1146	7.1	13
88	NMR Study on Ion Dynamics and Phase Behavior of a Piperidinium-Based Room-Temperature Ionic Liquid: 1-Butyl-1-methylpiperidinium Bis(fluorosulfonyl)amide. *Journal of Physical Chemistry B*, **2016**, 120, 5710-9	3.4	12
87	Linker-length dependence of the reorientational dynamics and viscosity of bis(imidazolium)-based ionic liquids incorporating bis(trifluoromethanesulfonyl)amide anions. *Chemical Physics Letters*, **2012**, 543, 72-75	2.5	12

86	Effect of hot isostatic pressing on nanopore in glass-like carbon prepared from phenol formaldehyde resin. *Carbon*, **2001**, 39, 1863-1867	10.4	12
85	Titanium sample holder for small-angle x-ray scattering measurements of supercritical aqueous solutions. *Review of Scientific Instruments*, **2001**, 72, 3013-3018	1.7	12
84	Construction of the Sample Holder and Small-Angle X-ray Scattering Measurement for Supercritical Water. *Japanese Journal of Applied Physics*, **1998**, 37, L768-L770	1.4	12
83	Structure model of liquid water as investigated by the method of reciprocal space expansion. *Journal of Chemical Physics*, **1994**, 101, 5017-5023	3.9	12
82	Direct Observation of Phase Transformation Process by Energy-Dispersive X-Ray Diffractometry. *Japanese Journal of Applied Physics*, **1980**, 19, L365-L368	1.4	12
81	Chemical potentials in aqueous solutions of some ionic liquids with the 1-ethyl-3-methylimidazolium cation. *Journal of Physical Chemistry B*, **2008**, 112, 13344-8	3.4	11
80	Anomalous X-ray scattering from aqueous 2-butoxyethanol at XBE = 0.06 near freezing. *Chemical Physics Letters*, **1994**, 228, 53-56	2.5	11
79	Model-potential-free analysis of small angle scattering of proteins in solution: insights into solvent effects on protein-protein interaction. *Physical Chemistry Chemical Physics*, **2014**, 16, 25492-7	3.6	10
78	Crystal Structure of 1,3-Dimethylimidazolium Bis(fluorosulfonyl)amide: Unexpectedly High Melting Point Arising from Polydentate Hydrogen Bonding. *Chemistry Letters*, **2014**, 43, 405-407	1.7	10
77	Correlation between hydrocarbon flexibility and physicochemical properties for cyclohexyl-imidazolium based ionic liquids studied by 1H and 13C NMR. *Chemical Physics Letters*, **2011**, 507, 100-104	2.5	10
76	Density dependences of long-range fluctuations and short-range correlation lengths of CHF3 and CH2F2 in supercritical states. *Journal of Chemical Physics*, **2006**, 124, 124519	3.9	10
75	Small-Angle X-ray Scattering Measurements of Ionic Liquids Pressurized with Carbon Dioxide Using Titanium Sample Holder: 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl) Amide Mixtures up to 22 MPa. *Japanese Journal of Applied Physics*, **2012**, 51, 076703	1.4	10
74	Growth Behavior of Gold Nanorods Synthesized by the Seed-Mediated Method: Tracking of Reaction Progress by Time-Resolved X-ray Absorption Near-Edge Structure, Small-Angle X-ray Scattering, and Ultraviolet Visible Spectroscopy. *Journal of Physical Chemistry C*, **2018**, 122, 7982-7991	3.8	9
73	Effect of Adding a Thiol Stabilizer on Synthesis of Au Nanoparticles by Sputter Deposition onto Poly(ethylene glycol). *Bulletin of the Chemical Society of Japan*, **2014**, 87, 773-779	5.1	9
72	Characterization of BF_4^- in terms of its effect on water by the 1-propanol probing methodology. *Journal of Molecular Liquids*, **2014**, 198, 211-214	6	9
71	Linker-Length Dependence of Crystal Structures and Thermal Properties of Bis(imidazolium) Salts with Tetrafluoroborate Anion. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 599-605	5.1	9
70	Fusion Growth of Gold Nanoparticles Induced by the Conformational Change of a Thermoresponsive Polymer Studied by Distance Distribution Functions. *Journal of Physical Chemistry C*, **2013**, 117, 13602-13608	3.8	9
69	Polymorphic Properties of Ionic Liquid of 1-Isopropyl-3-methylimidazolium Bromide. *Chemistry Letters*, **2009**, 38, 1136-1137	1.7	9

68	Construction of Sample Holder for X-ray Diffraction Experiments on Supercritical Fluids. *Japanese Journal of Applied Physics*, **1993**, 32, 5155-5158	1.4	9
67	A model-free method for extracting interaction potential between protein molecules using small-angle X-ray scattering. *Journal of Molecular Liquids*, **2014**, 200, 42-46	6	8
66	Microscopic Structure of Naked Au Nanoparticles Synthesized in Typical Ionic Liquids by Sputter Deposition. *Journal of Physical Chemistry C*, **2014**, 118, 27973-27980	3.8	8
65	Effects of cyclic-hydrocarbon substituents and linker length on physicochemical properties and reorientational dynamics of imidazolium-based ionic liquids. *Journal of Physical Chemistry B*, **2012**, 116, 2090-5	3.4	8
64	Zigzag Sheet Crystal Packing in a Halogen-bonding Imidazolium Salt: 1-Butyl-4,5-dibromo-3-methylimidazolium Iodide. *X-ray Structure Analysis Online*, **2010**, 26, 31-32	0.2	8
63	Clathrate-like structure of water around some nonelectrolytes in dilute solution as revealed by computer simulation and X-ray diffraction studies. *Journal of Inclusion Phenomena*, **1984**, 2, 119-126		8
62	Structure and dynamics of room temperature ionic liquids with bromide anion: results from 81Br NMR spectroscopy. *Magnetic Resonance in Chemistry*, **2015**, 53, 369-78	2.1	7
61	Anion and cation dynamics of sulfonylamide-based ionic liquids and the solid-liquid transitions. *Physical Chemistry Chemical Physics*, **2015**, 17, 8750-7	3.6	7
60	The effect of 2,2,2-trifluoroethanol on water studied by using third derivatives of Gibbs energy, G. *Journal of Molecular Liquids*, **2016**, 224, 401-407	6	7
59	Temperature-independent formation of Au nanoparticles in ionic liquids by arc plasma deposition. *Chemical Physics Letters*, **2016**, 658, 188-191	2.5	7
58	Fast cation dynamics in the crystalline state of an imidazolium-based room temperature ionic liquid due to the presence of a tiny amount of H2O. *Solid State Ionics*, **2014**, 259, 41-45	3.3	7
57	Optical and Radiographical Characterization of Silica Aerogel for Cherenkov Radiator. *IEEE Transactions on Nuclear Science*, **2012**, 59, 2506-2511	1.7	7
56	Sample Holder for Small-Angle X-ray Scattering Measurements and Density Fluctuation of Supercritical Xenon. *Japanese Journal of Applied Physics*, **2008**, 47, 334-336	1.4	7
55	Accuracy of Intensity Measurement by Use of an Area Detector with a Photostimulable Phosphor Screen, as Confirmed by Measuring Scattering Intensity from a Liquid. *Japanese Journal of Applied Physics*, **1991**, 30, 1303-1306	1.4	7
54	Fluctuational parameters based on the Bhatia□Thornton theory for supercritical solutions: Application to a supercritical aqueous solution of n -pentane. *Chemical Physics*, **2017**, 487, 30-36	2.3	6
53	Mixing scheme of an aqueous solution of tetrabutylphosphonium trifluoroacetate in the water-rich region. *Physical Chemistry Chemical Physics*, **2017**, 19, 16888-16896	3.6	6
52	Modulation of the intermolecular interaction of myoglobin by removal of the heme. *Journal of Synchrotron Radiation*, **2013**, 20, 919-22	2.4	6
51	Interpretation of correlation length by small-angle X-ray scattering experiments on fluids near critical point. *Chemical Physics Letters*, **2009**, 471, 249-252	2.5	6

50	Reply to comment on "Correlation lengths and density fluctuations in supercritical states of carbon dioxide". *Chemical Physics Letters*, **1997**, 271, 188	2.5	6
49	Br K-Edge X-ray Absorption Near Edge Structure Analyses of Bromine Residue Carbon Compounds Using Full Multiple-Scattering Theory. *Japanese Journal of Applied Physics*, **2005**, 44, 4073-4079	1.4	6
48	Small-angle X-ray scattering study on the fluctuations of supercritical aqueous solution of n-pentane along the critical isotherm of water. *Chemical Physics Letters*, **2012**, 543, 68-71	2.5	5
47	Specific Asphaltene Aggregation in Toluene at Around 50 mg/L. *Journal of the Japan Petroleum Institute*, **2013**, 56, 58-59	1	5
46	Small-Angle X-ray Scattering Measurements of Ionic Liquids Pressurized with Carbon Dioxide Using Titanium Sample Holder: 1-Butyl-3-methylimidazolium Bis(trifluoromethylsulfonyl) Amide Mixtures up to 22 MPa. *Japanese Journal of Applied Physics*, **2012**, 51, 076703	1.4	5
45	Investigation on structural fluctuation of supercritical cyclohexane by small-angle X-ray scattering. *Fluid Phase Equilibria*, **2007**, 252, 114-118	2.5	5
44	Construction of Small-Angle X-Ray Scattering Diffractometer Using Asymmetric Channel-Cut Monochromator. *Japanese Journal of Applied Physics*, **2000**, 39, 343-344	1.4	5
43	Construction of a Sample Cell of Poisonous Organic Solvents in Supercritical State for Small-Angle X-Ray Scattering Measurements. *Japanese Journal of Applied Physics*, **2001**, 40, 4260-4261	1.4	5
42	An X-ray diffraction study of the structure and molecular motion in liquid carbon disulfide. *Journal of Molecular Structure*, **1995**, 352-353, 213-218	3.4	5
41	Structural Studies of Liquid 1,1,1-Trichloroethane by Means of X-Ray Diffraction. *Bulletin of the Chemical Society of Japan*, **1988**, 61, 217-221	5.1	5
40	Crystal Polymorphism of 1-Butyl-3-methylimidazolium Hexafluorophosphate: Phase Diagram, Structure, and Dynamics. *Australian Journal of Chemistry*, **2019**, 72, 11	1.2	5
39	Crystal Structure of 2,3-Dimethyl-1-isopropylimidazolium Bromide. *Analytical Sciences: X-ray Structure Analysis Online*, **2007**, 23, X107-X108		4
38	Volume-variable sample holder for small-angle x-ray scattering measurements of supercritical solutions and its application to the CHF3–CO2 mixture. *Review of Scientific Instruments*, **2005**, 76, 033902	1.7	4
37	Structure Model for Liquid Neopentane. *Bulletin of the Chemical Society of Japan*, **1986**, 59, 2920-2922	5.1	4
36	Reply to comment on the use of "reciprocal space expansion" in the analysis of structure factors of liquids. *Chemical Physics Letters*, **1986**, 127, 411	2.5	4
35	Determination of the Energy Spectrum of the Primary Beam in Energy-Dispersive X-Ray Diffractometry. *Japanese Journal of Applied Physics*, **1986**, 25, 1431-1434	1.4	4
34	Solution Chemistry Based on the Concept of Fluctuations. *Molecular Science*, **2012**, 6, A0054	0	4
33	Excess Partial Molar Absorptivity of Aqueous Solutions of KCl, KBr, CsCl and CsBr: Are There Three Universal Chromophores in the Excess Molar Absorptivity of the ν2 + ν3 Band of H2O for Aqueous Salt Solutions?. *Journal of Solution Chemistry*, **2015**, 44, 1833-1843	1.8	3

32	Band shift and bandwidth broadening in Raman spectra of CO2 induced by absorption into an imidazolium-based ionic liquid, 1-ethyl-3-methylimidazolium tetrafluoroborate, up to 15 MPa. *Chemical Physics Letters*, **2017**, 684, 346-350	2.5	3
31	X-ray radiographic technique for measuring density uniformity of silica aerogel. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 697, 52-58	1.2	3
30	Halogen Bonding and Hydrogen Bonding in 4,5-Diiodo-3-methyl-1-propylimidazolium Hexafluorophosphate. *X-ray Structure Analysis Online*, **2010**, 26, 39-40	0.2	3
29	Novel Detection Method of Liquid–Liquid Phase Separation. *Japanese Journal of Applied Physics*, **2004**, 43, 8217-8218	1.4	3
28	Fluctuations and Mixing State of an Aqueous Solution of the Ionic Liquid Tetrabutylphosphonium Trifluoroacetate around the Critical Point. *Australian Journal of Chemistry*, **2019**, 72, 93	1.2	3
27	Two different regimes in alcohol-induced coil-helix transition: effects of 2,2,2-trifluoroethanol on proteins being either independent of or enhanced by solvent structural fluctuations. *Physical Chemistry Chemical Physics*, **2021**, 23, 5760-5772	3.6	3
26	Spectra of excess molar absorptivity of aqueous solutions of ionic liquids: Universal chromophores for aqueous electrolytes?. *Journal of Molecular Liquids*, **2017**, 238, 570-573	6	2
25	Effects of ionic liquid constituent cations, tetraalkylammoniums, on water studied by means of the 1-propanol probing methodology. *Journal of Molecular Liquids*, **2018**, 252, 58-61	6	2
24	Novel Method of Measuring Heat Capacity of Supercritical Fluid Using Peltier Elements. *Japanese Journal of Applied Physics*, **2006**, 45, 269-273	1.4	2
23	Pore Structure Analyses of Carbons by Small-Angle X-ray Scattering **2003**, 175-188		2
22	Development of an Apparatus for High-Resolution Measurement of Permittivity of Fluids near the Critical Point and Detection of the Critical Anomaly for Supercritical Ethylene. *Japanese Journal of Applied Physics*, **2002**, 41, 6455-6460	1.4	2
21	Effects of H and OH on HO as probed by the 1-propanol probing methodology: differential thermodynamic approach. *Physical Chemistry Chemical Physics*, **2017**, 19, 27413-27420	3.6	1
20	Absorption- and Pressure-induced Structural Transition Exhibiting V-shaped Density Change in Imidazolium-based Ionic Liquid + CO2 System. *Chemistry Letters*, **2015**, 44, 937-939	1.7	1
19	Understanding of Unique Thermal Phase Behavior of Room Temperature Ionic Liquids: 1-Butyl-3-Methylimdiazolium Hexafluorophosphate as a Great Example. *Springer Series in Materials Science*, **2015**, 379-401	0.9	1
18	NMR study for self-aggregation of 1-butyl-3-methylimidazolium bromide in aqueous solution. *Analytical Sciences*, **2008**, 24, 1369-71	1.7	1
17	X-Ray Diffraction Study of Mixing States in the Carbon Tetrachloride Solutions of Methanol and Pentane. *Bulletin of the Chemical Society of Japan*, **1983**, 56, 1273-1278	5.1	1
16	Structure and Properties of Supercritical Water: Experimental and Theoretical Characterizations. *J*, **2021**, 4, 698-726	1.9	1
15	Fluctuations Obtained by Diffraction Experiments. Contact Point of Thermodynamics and Diffraction.. *Nihon Kessho Gakkaishi*, **1994**, 36, 31-39	0	1

14	General Remarks on Ionic Liquids, Which Are Applicable under Vacuum. *Journal of the Vacuum Society of Japan*, **2013**, 56, 43-46		1
13	Reduction in mesoscopic structural fluctuations of liquid water induced by the large amphiphilicity of ionic liquid cations. *Journal of Molecular Liquids*, **2018**, 272, 425-429	6	1
12	The Solution Chemistry of Mixing States Probed via Fluctuations: a Direct Description of Inhomogeneity in Mixing. *Bulletin of the Chemical Society of Japan*, **2021**, 94, 2170-2186	5.1	1
11	Unique phase behavior of a room-temperature ionic liquid, trimethylpropylammonium bis(fluorosulfonyl)amide: surface melting and its crystallization. *Physical Chemistry Chemical Physics* , **2020**, 22, 20634-20642	3.6	0
10	Formulation of Diffraction Intensity of Ionic Plastic Crystal and Its Application to Trimethylethylammonium Bis(fluorosulfonyl)amide. *Bulletin of the Chemical Society of Japan*, **2021**, 94, 2011-2018	5.1	0
9	Characterization of [P4444]CF3COO in water by the 1-propanol probing methodology. *Journal of Molecular Liquids*, **2020**, 302, 112560	6	
8	Understanding Thermal Phase Behaviors of PF6--Paired Imidazolium-Based Ionic Liquids at the Molecular Level. *Nihon Kessho Gakkaishi*, **2016**, 58, 7-12	0	
7	The Phase Behaviour of 1-Alkyl-3-Methylimidazolium Ionic Liquids **2014**, 59-85		
6	Unique Thermal Behaviors of Ionic Liquids. *Journal of the Vacuum Society of Japan*, **2013**, 56, 47-53		
5	Dynamical scaling analysis using the Lillie Number for vitrification of deeply supercooled glycerol. *Journal of Non-Crystalline Solids*, **2012**, 358, 1313-1318	3.9	
4	Au Nanoparticles Prepared in Ionic Liquid by Sputter-Deposition Technique : What Determines the Particle Size?. *Hyomen Kagaku*, **2013**, 34, 185-191		
3	X-RAY DIFFRACTION STUDY OF LIQUID METHANOL. *Chemistry Letters*, **1981**, 10, 327-329	1.7	
2	Structure of Solution Probed via Fluctuations: Direct Description of Inhomogeneity in Mixing. *Nihon Kessho Gakkaishi*, **2021**, 63, 197-207	0	
1	Structure disorder observation of fluoropolymers composed of vinylidene fluoride and tetrafluoroethylene in supercritical CO2 using time-resolved small- and wide-angle X-ray scattering. *Journal of Supercritical Fluids*, **2022**, 184, 105555	4.2	