

Keiko Nishikawa

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Mixing Schemes in Ionic Liquid-H ₂ O Systems: A Thermodynamic Study. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19451-19457.	1.2	191
2	Structure of an ionic liquid, 1-n-butyl-3-methylimidazolium iodide, studied by wide-angle X-ray scattering and Raman spectroscopy. <i>Chemical Physics Letters</i> , 2004, 392, 460-464.	1.2	190
3	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. <i>The Journal of Physical Chemistry</i> , 1989, 93, 6559-6565.	2.9	145
4	Effect of an Ionic Liquid Cation, 1-Butyl-3-methylimidazolium, on the Molecular Organization of H ₂ O. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9014-9019.	1.2	133
5	Small-angle x-ray scattering study of fluctuations in 1-propanol-water and 2-propanol-water systems. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8334-8338.	2.9	119
6	Small-Angle X-ray Scattering Study of Supercritical Carbon Dioxide. <i>The Journal of Physical Chemistry</i> , 1996, 100, 418-421.	2.9	118
7	Corrections for Intensity Data in Energy-dispersive X-Ray Diffractometry of Liquids. Application to Carbon Tetrachloride. <i>Bulletin of the Chemical Society of Japan</i> , 1984, 57, 1750-1759.	2.0	117
8	Correlation lengths and density fluctuations in supercritical states of carbon dioxide. <i>Chemical Physics Letters</i> , 1995, 244, 149-152.	1.2	115
9	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. <i>The Journal of Physical Chemistry</i> , 1987, 91, 3694-3699.	2.9	112
10	Inhomogeneity of molecular distribution in supercritical fluids. <i>Chemical Physics Letters</i> , 2000, 316, 238-242.	1.2	112
11	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. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4894-4900.	1.2	112
12	Small-angle x-ray scattering study of fluctuations in ethanol and water mixtures. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10824-10828.	2.9	107
13	Study of inhomogeneity of supercritical water by small-angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2000, 112, 4203-4211.	1.2	106
14	Phase Behaviors of Room Temperature Ionic Liquid Linked with Cation Conformational Changes: 1-Butyl-3-methylimidazolium Hexafluorophosphate. <i>Journal of Physical Chemistry B</i> , 2010, 114, 407-411.	1.2	102
15	Effects of sputtering conditions on formation of gold nanoparticles in sputter deposition technique. <i>RSC Advances</i> , 2011, 1, 1815.	1.7	99
16	Effects of Methylation at the 2 Position of the Cation Ring on Phase Behaviors and Conformational Structures of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9201-9208.	1.2	92
17	Small-Angle X-ray Scattering Study of Au Nanoparticles Dispersed in the Ionic Liquids 1-Alkyl-3-methylimidazolium Tetrafluoroborate. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3917-3922.	1.5	87
18	Can Temperature Control the Size of Au Nanoparticles Prepared in Ionic Liquids by the Sputter Deposition Technique?. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11098-11102.	1.5	86

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19	Synthesis of Gold Nanoparticles in Liquid Polyethylene Glycol by Sputter Deposition and Temperature Effects on their Size and Shape. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3279-3285.	1.5	86
20	Density fluctuation of a van der Waals fluid in supercritical state. <i>Journal of Chemical Physics</i> , 2003, 118, 1341-1346.	1.2	84
21	Conformational Analysis of 1-Butyl-3-methylimidazolium by CCSD(T) Level Ab Initio Calculations: Effects of Neighboring Anions. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7739-7747.	1.2	84
22	Microscopic Study of Ionic Liquid ^{H₂O} Systems: Alkyl-Group Dependence of 1-Alkyl-3-Methylimidazolium Cation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6323-6331.	1.2	78
23	Mesocellular Foam Carbons: Aggregates of Hollow Carbon Spheres with Open and Closed Wall Structures. <i>Chemistry of Materials</i> , 2004, 16, 3860-3866.	3.2	75
24	Hydrophobicity or No Hydrophobicity in Aqueous Alcohols: Composition-Dependent Mixing Schemes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3873-3877.	1.1	71
25	Ultrafast Dynamics in Aprotic Molecular Liquids: A Femtosecond Raman-Induced Kerr Effect Spectroscopic Study. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 1347-1366.	2.0	71
26	Surface fractal dimension of microporous carbon fibres by nitrogen adsorption. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 179.	1.7	70
27	Small-angle X-ray scattering study of the pore structure of carbon fibers prepared from a polymer blend of phenolic resin and polystyrene. <i>Carbon</i> , 2001, 39, 287-290.	5.4	70
28	Inhomogeneity of Mixing in Acetonitrile Aqueous Solution Studied by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2002, 106, 693-700.	1.2	69
29	Raman spectral changes of neat CO ₂ across the ridge of density fluctuation in supercritical region. <i>Chemical Physics Letters</i> , 2000, 320, 323-327.	1.2	67
30	Small-Angle X-ray-Scattering Study of Supercritical Trifluoromethane. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1413-1418.	1.2	64
31	Atom Substitution Effects of [XF ₆] ⁺ in Ionic Liquids. 1. Experimental Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9831-9839.	1.2	63
32	Comparison of interionic/intermolecular vibrational dynamics between ionic liquids and concentrated electrolyte solutions. <i>Journal of Chemical Physics</i> , 2009, 131, 244519.	1.2	62
33	NMR study on relationships between reorientational dynamics and phase behaviour of room-temperature ionic liquids: 1-alkyl-3-methylimidazolium cations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2959.	1.3	58
34	The Construction of an Energy-dispersive X-Ray Diffractometer for Liquids and Its Application to CCl ₄ . <i>Bulletin of the Chemical Society of Japan</i> , 1978, 51, 411-418.	2.0	56
35	Thermodynamic study on phase transitions of poly(benzyl methacrylate) in ionic liquid solvents. <i>Pure and Applied Chemistry</i> , 2009, 81, 1829-1841.	0.9	56
36	Atom Substitution Effects of [XF ₆] ⁺ in Ionic Liquids. 2. Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9840-9851.	1.2	56

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37	Simple relationship between the Kirkwood-Buff parameters and the fluctuations in the particle number and concentration obtained by small-angle X-ray scattering. <i>Chemical Physics Letters</i> , 1986, 132, 50-54.	1.2	55
38	Fluid behavior at supercritical states studied by small-angle X-ray scattering. <i>Journal of Supercritical Fluids</i> , 1998, 13, 143-148.	1.6	55
39	Toward Understanding the Hofmeister Series. 3. Effects of Sodium Halides on the Molecular Organization of H ₂ O As Probed by 1-Propanol. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2072-2078.	1.1	54
40	Spectrum of Excess Partial Molar Absorptivity. I. Near Infrared Spectroscopic Study of Aqueous Acetonitrile and Acetone. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11928-11935.	1.2	53
41	Liquid Structure of Carbon Tetrachloride and Long-range Correlation. <i>Bulletin of the Chemical Society of Japan</i> , 1979, 52, 293-298.	2.0	51
42	Crystal Structure of 1-Butyl-3-methylimidazolium Iodide. <i>Chemistry Letters</i> , 2006, 35, 1400-1401.	0.7	50
43	Structural study of tert-butyl alcohol and water mixtures by x-ray diffraction. <i>The Journal of Physical Chemistry</i> , 1990, 94, 6227-6231.	2.9	49
44	Chemical potential and concentration fluctuation in some aqueous alkane-mono-ols at 25oC. <i>Canadian Journal of Chemistry</i> , 2003, 81, 141-149.	0.6	46
45	Effects of Methylation at Position 2 of Cation Ring on Rotational Dynamics of Imidazolium-Based Ionic Liquids Investigated by NMR Spectroscopy: [C ₄ mim]Br vs [C ₄ C ₁ mim]Br. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2999-3005.	1.1	45
46	Mixing Schemes for Aqueous Dimethyl Sulfoxide: Support by X-ray Diffraction Data. <i>Journal of Solution Chemistry</i> , 2001, 30, 885-893.	0.6	44
47	Density-Fluctuation-Induced Swelling of Polymer Thin Films in Carbon Dioxide. <i>Physical Review Letters</i> , 2002, 89, 125506.	2.9	44
48	Is a Methyl Group Always Hydrophobic? Hydrophilicity of Trimethylamine-N-oxide, Tetramethyl Urea and Tetramethylammonium Ion. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2995-3002.	1.2	44
49	Local density enhancement in neat supercritical fluid due to attractive intermolecular interactions. <i>Chemical Physics Letters</i> , 2003, 368, 209-214.	1.2	43
50	Terahertz absorption spectra of supercritical CHF ₃ to investigate local structure through rotational and hindered rotational motions. <i>Chemical Physics Letters</i> , 2001, 341, 86-92.	1.2	42
51	Structure Study of Supercritical CO ₂ near Higher-Order Phase Transition Line by X-ray Diffraction. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7158-7162.	1.2	40
52	Dynamics of Density Fluctuation of Supercritical Fluid Mapped on Phase Diagram. <i>Journal of the American Chemical Society</i> , 2004, 126, 422-423.	6.6	40
53	Relative Hydrophobicity and Hydrophilicity of Some α -Ionic Liquid Anions Determined by the 1-Propanol Probing Methodology: A Differential Thermodynamic Approach. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2655-2660.	1.2	40
54	¹ H NMR study on reorientational dynamics of an ionic liquid, 1-butyl-3-methylimidazolium bromide, accompanied with phase transitions. <i>Chemical Physics Letters</i> , 2008, 459, 89-93.	1.2	39

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55	Hydrophobicity/Hydrophilicity of 1-Butyl-2,3-dimethyl and 1-Ethyl-3-methylimidazolium Ions: Toward Characterization of Room Temperature Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14754-14760.	1.2	39
56	NMR Study of Cation Dynamics in Three Crystalline States of 1-Butyl-3-methylimidazolium Hexafluorophosphate Exhibiting Crystal Polymorphism. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3780-3788.	1.2	39
57	Density fluctuation of supercritical fluids obtained from small-angle X-ray scattering experiment and thermodynamic calculation. <i>Journal of Supercritical Fluids</i> , 2004, 30, 249-257.	1.6	38
58	X-ray scattering study of carbon dioxide at supercritical states. <i>Chemical Physics Letters</i> , 1994, 226, 359-363.	1.2	37
59	Toward Understanding the Hofmeister Series. 1. Effects of Sodium Salts of Some Anions on the Molecular Organization of H ₂ O. <i>Journal of Physical Chemistry A</i> , 2004, 108, 8533-8541.	1.1	36
60	Rhythmic melting and crystallizing of ionic liquid 1-butyl-3-methylimidazolium bromide. <i>Chemical Physics Letters</i> , 2008, 458, 88-91.	1.2	36
61	A Comparative Study of the Rotational Dynamics of PF ₆ ⁻ Anions in the Crystals and Liquid States of 1-Butyl-3-methylimidazolium Hexafluorophosphate: Results from ³¹ P NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 326-332.	1.2	36
62	The intermolecular arrangement in the plastic crystal (phase Ia) of carbon tetrachloride studied by x-ray diffraction. <i>Journal of Chemical Physics</i> , 1981, 74, 5817-5824.	1.2	34
63	Apparatus for the simultaneous measurement of the X-ray absorption factor developed for a small-angle X-ray scattering beamline. <i>Journal of Applied Crystallography</i> , 2007, 40, 791-795.	1.9	33
64	The Structure of Polyvanadotungstates. II. The Crystal Structure of K ₇ V ₅ W ₈ O ₄ ·12H ₂ O. <i>Bulletin of the Chemical Society of Japan</i> , 1975, 48, 3152-3155.	2.0	32
65	Attractive and Repulsive Intermolecular Interactions of a Polar Molecule: A Short-Range Structure of Neat Supercritical CHF ₃ Investigated by Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5770-5784.	1.1	31
66	Development of Apparatus for Simultaneous Measurements of Raman Spectroscopy and High-Sensitivity Calorimetry. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1775.	0.8	31
67	Transglycosylated rutin-specific non-surface-active nanostructure affects absorption enhancement of flurbiprofen. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 120-126.	2.0	31
68	X-Ray Diffraction Study of Liquid Water. <i>Bulletin of the Chemical Society of Japan</i> , 1980, 53, 2804-2808.	2.0	30
69	Investigation of structural fluctuation of supercritical benzene by small-angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2003, 119, 1502-1509.	1.2	30
70	Ultraslow Dynamics at Crystallization of a Room-Temperature Ionic Liquid, 1-Butyl-3-methylimidazolium Bromide. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3991-3997.	1.2	30
71	Simulation of small-angle X-ray scattering behaviour of activated carbon fibres adsorbing water. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2763.	1.7	29
72	K-Edge X-ray Absorption Fine Structure Analysis of Pt/Au Core-Shell Electrocatalyst: Evidence for Short Pt-Pt Distance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8481-8490.	1.5	29

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73	Binding and correlation effects in nitrogen and oxygen, and the correlation effects in neon, as studied by gas-phase x-ray diffraction. <i>Journal of Chemical Physics</i> , 1987, 87, 3753-3757.	1.2	28
74	Correlation time of density fluctuation for supercritical ethylene studied by dynamic light scattering. <i>Journal of Chemical Physics</i> , 2002, 116, 4985.	1.2	28
75	Relative Hydrophobicity/Hydrophilicity of Fructose, Glucose, Sucrose, and Trehalose as Probed by 1-Propanol: A Differential Approach in Solution Thermodynamics. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13943-13948.	1.2	27
76	Isomer Populations in Liquids for 1-Isopropyl-3-methylimidazolium Bromide and Its Iodide and Their Conformational Changes Accompanying the Crystallizing and Melting Processes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7543-7550.	1.1	27
77	Aspect-Ratio Dependence on Formation Process of Gold Nanorods Studied by Time-Resolved Distance Distribution Functions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3804-3810.	1.5	27
78	Determination of Missing Crystal Structures in the 1-Alkyl-3-methylimidazolium Hexafluorophosphate Series: Implications on Structure-Property Relationships. <i>Crystal Growth and Design</i> , 2013, 13, 5383-5390.	1.4	27
79	The temperature dependence of the liquid structure of carbon tetrachloride. <i>Chemical Physics Letters</i> , 1979, 64, 154-157.	1.2	26
80	Characterization of the molecular reorientational dynamics of the neat ionic liquid 1-butyl-3-methylimidazolium bromide in the super cooled state using ^1H and ^{13}C NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 67-70.	1.1	26
81	Comparison between Cycloalkyl- and <i>n</i> -Alkyl-Substituted Imidazolium-Based Ionic Liquids in Physicochemical Properties and Reorientational Dynamics. <i>Journal of Physical Chemistry B</i> , 2012, 116, 2059-2064.	1.2	26
82	Density fluctuations in aqueous solution of ionic liquid with lower critical solution temperature: Mixture of tetrabutylphosphonium trifluoroacetate and water. <i>Chemical Physics Letters</i> , 2015, 628, 108-112.	1.2	26
83	Structure Model for Liquid Carbon Tetrachloride. <i>Bulletin of the Chemical Society of Japan</i> , 1985, 58, 1215-1219.	2.0	25
84	The Effects of Chloride Salts of Some Cations on the Molecular Organization of H ₂ O. Towards Understanding the Hofmeister Series. II. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 1347-1354.	2.0	25
85	Syntheses and crystal structures of two ionic liquids with halogen-bonding groups: 4,5-dibromo- and 4,5-diiodo-1-butyl-3-methylimidazolium trifluoromethanesulfonates. <i>Solid State Sciences</i> , 2010, 12, 783-788.	1.5	25
86	Structure of Polyvanadotungstates. I. The Crystal Structure of $\text{H}_2\text{V}_2\text{O}_{19}$. <i>Bulletin of the Chemical Society of Japan</i> , 1975, 48, 889-892.	2.0	24
87	Structure Change of Glass-like Carbon with Heat Treatment, Studied by Small Angle X-Ray Scattering: I. Glass-like Carbon Prepared from Phenolic Resin. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 6486-6491.	0.8	24
88	Static inhomogeneity of supercritical ethylene studied by small-angle X-ray scattering. <i>Chemical Physics</i> , 2003, 286, 421-430.	0.9	24
89	Crystal polymorphism of a room-temperature ionic liquid, 1,3-dimethylimidazolium hexafluorophosphate: Calorimetric and structural studies of two crystal phases having melting points of $\sim 1/2$ K difference. <i>Chemical Physics Letters</i> , 2011, 517, 162-165.	1.2	24
90	How Much Weaker Are the Effects of Cations than Those of Anions? The Effects of K^+ and Cs^+ on the Molecular Organization of Liquid H ₂ O. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8744-8749.	1.2	24

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91	Phase Behavior of a Piperidinium-Based Room-Temperature Ionic Liquid Exhibiting Scanning Rate Dependence. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12552-12560.	1.2	24
92	use of reciprocal-space expansion in the analysis of X-ray scattering intensities from liquids. <i>Chemical Physics Letters</i> , 1985, 115, 522-524.	1.2	23
93	How Are Hydrogen Bonds Perturbed in Aqueous NaClO ₄ Solutions Depending on the Concentration?: A Near Infrared Study of Water. <i>Journal of Solution Chemistry</i> , 2004, 33, 689-698.	0.6	23
94	Time Evolution of Density Fluctuation in Supercritical Region. I. Non-hydrogen-bonded Fluids Studied by Dynamic Light Scattering. <i>Journal of Physical Chemistry A</i> , 2005, 109, 83-91.	1.1	23
95	Anomalous dynamic behavior of ions and water molecules in dilute aqueous solution of 1-butyl-3-methylimidazolium bromide studied by NMR. <i>Chemical Physics Letters</i> , 2006, 427, 87-90.	1.2	23
96	Spectrum of excess partial molar absorptivity. Part II: a near infrared spectroscopic study of aqueous Na-halides. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4433.	1.3	23
97	Comprehensive Conformational and Rotational Analyses of the Butyl Group in Cyclic Cations: DFT Calculations for Imidazolium, Pyridinium, Pyrrolidinium, and Piperidinium. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10336-10349.	1.2	23
98	Anion and cation effects on the size control of Au nanoparticles prepared by sputter deposition in imidazolium-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2339-2349.	1.3	23
99	Melting and Crystallization Behaviors of an Ionic Liquid, 1-Isopropyl-3-methylimidazolium Bromide, Studied by Using Nanowatt-Stabilized Differential Scanning Calorimetry. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 806-812.	2.0	22
100	Halogen-bonded and Hydrogen-bonded Network Structures in Crystals of 1-Propyl- and 1-Butyl-4,5-dibromo-3-methylimidazolium Bromides. <i>Chemistry Letters</i> , 2009, 38, 402-403.	0.7	22
101	A thermodynamic study of aqueous acetonitrile: excess chemical potentials, partial molar enthalpies, entropies and volumes, and fluctuations. <i>Canadian Journal of Chemistry</i> , 2000, 78, 1553-1560.	0.6	21
102	Fluctuations in density and concentration of methanol-water mixtures at 7 MPa and 373, 423 K studied by small-angle X-ray scattering. <i>Chemical Physics Letters</i> , 2004, 389, 29-33.	1.2	21
103	Intermittent crystallization of an ionic liquid: 1-Isopropyl-3-methylimidazolium bromide. <i>Chemical Physics Letters</i> , 2008, 463, 369-372.	1.2	21
104	High-resolution calorimetry on thermal behavior of glycerol (l): Glass transition, crystallization and melting, and discovery of a solid-solid transition. <i>Chemical Physics Letters</i> , 2011, 506, 217-220.	1.2	21
105	1-butyl-3-methylimidazolium hexafluorophosphate: Results from ^{13}C and ^{31}P NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11119-11129.	1.1	20
106	Effects of Tetramethyl- and Tetraethylammonium Chloride on H ₂ O: Calorimetric and Near-Infrared Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 877-883.	1.2	20
107	Excess partial molar entropy of alkane-mono-ols in aqueous solutions at 25°C. <i>Canadian Journal of Chemistry</i> , 2003, 81, 150-155.	0.6	19
108	Analysis to obtain precise density fluctuation of supercritical fluids by small-angle X-ray scattering. <i>Chemical Physics</i> , 2005, 310, 123-128.	0.9	19

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109	Asphaltene Aggregation Behavior in Bromobenzene Determined By Small-angle X-ray Scattering. Energy & Fuels, 2015, 29, 5737-5743.	2.5	19
110	Mean Square Deviations of Interatomic Distances in Liquid Carbon Tetrachloride. Bulletin of the Chemical Society of Japan, 1985, 58, 1220-1224.	2.0	18
111	Evaluation and Countermeasures of Convective Heat Transfer on Thermal Conductivity Measurement Using the Peltier Effect and Application to Supercritical CO ₂ . Japanese Journal of Applied Physics, 1999, 38, 6840-6845.	0.8	18
112	Supercritical-fluid cell with device of variable optical path length giving fringe-free terahertz spectra. Review of Scientific Instruments, 2000, 71, 4061.	0.6	18
113	Effects of Na ₂ SO ₄ and NaClO ₄ on the Molecular Organization of H ₂ O. Journal of Physical Chemistry A, 2004, 108, 1635-1637.	1.1	18
114	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, 7365-7370.	1.1	18
115	Air Oxidation of Carbon Spheres. II. Micropore Development. Adsorption Science and Technology, 2006, 24, 55-64.	1.5	18
116	Effects of Ethanol and Dimethyl Sulfoxide on the Molecular Organization of H ₂ O as Probed by 1-Propanol. Journal of Physical Chemistry B, 2012, 116, 7328-7333.	1.2	17
117	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.	2.0	16
118	Investigation of the pore structure in glass-like carbon prepared from furan resin. Carbon, 2001, 39, 2017-2021.	5.4	16
119	4,5-Dihaloimidazolium-based ionic liquids: effects of halogen-bonding on crystal structures and ionic conductivity. RSC Advances, 2013, 3, 19952.	1.7	16
120	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.	1.2	16
121	Structure model of liquid water as investigated by the method of reciprocal space expansion. Journal of Chemical Physics, 1994, 101, 5017-5023.	1.2	15
122	Multiple small-angle X-ray scattering analyses of the structure of gold nanorods with unique end caps. Chemical Physics, 2009, 364, 14-18.	0.9	15
123	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, 5710-5719.	1.2	15
124	Chemical Potentials in Aqueous Solutions of Some Ionic Liquids with the 1-Ethyl-3-methylimidazolium Cation. Journal of Physical Chemistry B, 2008, 112, 13344-13348.	1.2	14
125	Direct Observation of Phase Transformation Process by Energy-Dispersive X-Ray Diffractometry. Japanese Journal of Applied Physics, 1980, 19, L365-L368.	0.8	13
126	Influence of fine particles on carbon deposition in the coke oven chamber. Fuel, 1998, 77, 1141-1146.	3.4	13

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127	Effect of hot isostatic pressing on nanopore in glass-like carbon prepared from phenol-formaldehyde resin. <i>Carbon</i> , 2001, 39, 1863-1867.	5.4	13
128	Titanium sample holder for small-angle x-ray scattering measurements of supercritical aqueous solutions. <i>Review of Scientific Instruments</i> , 2001, 72, 3013-3018.	0.6	13
129	Linker-length dependence of the reorientational dynamics and viscosity of bis(imidazolium)-based ionic liquids incorporating bis(trifluoromethanesulfonyl)amide anions. <i>Chemical Physics Letters</i> , 2012, 543, 72-75.	1.2	13
130	Visible photoluminescence of gold nanoparticles prepared by sputter deposition technique in a room-temperature ionic liquid. <i>Chemical Physics Letters</i> , 2013, 586, 100-103.	1.2	13
131	Anomalous X-ray scattering from aqueous 2-butoxyethanol at XBE = 0.06 near freezing. <i>Chemical Physics Letters</i> , 1994, 228, 53-56.	1.2	12
132	Construction of the Sample Holder and Small-Angle X-ray Scattering Measurement for Supercritical Water. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L768-L770.	0.8	12
133	Correlation between hydrocarbon flexibility and physicochemical properties for cyclohexyl-imidazolium based ionic liquids studied by ¹ H and ¹³ C NMR. <i>Chemical Physics Letters</i> , 2011, 507, 100-104.	1.2	12
134	Optical and Radiographical Characterization of Silica Aerogel for Cherenkov Radiator. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2506-2511.	1.2	12
135	Accuracy of Intensity Measurement by Use of an Area Detector with a Photostimulable Phosphor Screen, as Confirmed by Measuring Scattering Intensity from a Liquid. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 1303-1306.	0.8	11
136	Construction of Sample Holder for X-ray Diffraction Experiments on Supercritical Fluids. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 5155-5158.	0.8	11
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