

Akihiro Wakisaka

List of Publications by Year in descending order

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83
papers

2,213
citations

257450

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233421

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85
all docs

85
docs citations

85
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Enantiodifferentiating <i>ortho</i> -Selective Oxylation of <i>ortho</i> -Alkylbenzoate with a Lactate-Derived Aryl Ether. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7068-7071.	13.8	183
2	Non-ideality of binary mixtures Water-methanol and water-acetonitrile from the viewpoint of clustering structure. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 369-374.	1.7	141
3	Microheterogeneity of ethanol-water binary mixtures observed at the cluster level. <i>Journal of Molecular Liquids</i> , 2006, 129, 25-32.	4.9	124
4	Magnitude and Origin of the Attraction and Directionality of the Halogen Bonds of the Complexes of C_6F_5X and C_6H_5X ($X=I, Br, Cl$ and F) with Pyridine. <i>Chemistry - A European Journal</i> , 2012, 18, 951-960.	3.3	118
5	Solute-solvent and solvent-solvent interactions evaluated through clusters isolated from solutions: Preferential solvation in water-alcohol mixtures. <i>Journal of Molecular Liquids</i> , 2001, 90, 175-184.	4.9	110
6	On the Origin of Microheterogeneity: A Mass Spectrometric Study of Dimethyl Sulfoxide-Water Binary Mixture. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6759-6762.	2.6	103
7	Phase separation of water-alcohol binary mixtures induced by the microheterogeneity. <i>Faraday Discussions</i> , 2005, 129, 231-245.	3.2	96
8	On the Origin of Microheterogeneity: Mass Spectrometric Studies of Acetonitrile-Water and Dimethyl Sulfoxide-Water Binary Mixtures (Part 2). <i>Journal of Physical Chemistry B</i> , 2002, 106, 6014-6020.	2.6	81
9	Energetics for carbon clusters produced directly by laser vaporization of graphite: dependence on laser power and wavelength. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1667.	1.7	69
10	Interaction of hydrophobic molecules with water influenced by the clustering conditions of acetonitrile-water mixtures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 1129-1135.	1.7	64
11	Preferential solvation controlled by clustering conditions of acetonitrile-water mixtures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 4063-4069.	1.7	57
12	Camphor Ionic Liquid: Correlation between Stereoselectivity and Cation-Anion Interaction. <i>Journal of Organic Chemistry</i> , 2005, 70, 10106-10108.	3.2	44
13	CCSD(T) level interaction energy for halogen bond between pyridine and substituted iodobenzenes: origin and additivity of substituent effects. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6088.	2.8	43
14	Molecular Association in Binary Mixtures of tert-Butyl Alcohol-Water and Tetrahydrofuran-Heavy Water Studied by Mass Spectrometry of Clusters from Liquid Droplets. <i>Journal of Physical Chemistry A</i> , 2004, 108, 59-63.	2.5	41
15	Molecular Self-Assembling of Butan-1-ol, Butan-2-ol, and 2-Methylpropan-2-ol in Carbon Tetrachloride Solutions as Observed by Near-Infrared Spectroscopic Measurements. <i>Applied Spectroscopy</i> , 2000, 54, 268-276.	2.2	40
16	Azeotropy of alcohol-water mixtures from the viewpoint of cluster-level structures. <i>Journal of Molecular Liquids</i> , 2011, 160, 103-108.	4.9	33
17	Magnitude and Directionality of Halogen Bond of Benzene with C_6F_5X , C_6H_5X , and CF_3X ($X=I, Br, Cl$, and F). <i>Journal of Physical Chemistry A</i> , 2016, 120, 7020-7029.	2.5	32
18	Growth of carbon clusters. The simplest process, $2C_1 \rightarrow C_2$, observed via spectrometry and chemical reaction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1001.	1.7	28

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19	Complementary Relation between Ion ⁺ Counterion and Ion ⁻ Solvent Interaction in Lithium Halide ⁻ Methanol Solutions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 8059-8065.	2.5	28
20	Nature of the Chemical Bond Formed with the Structural Metal Ion at the A9/G10.1 Motif Derived from Hammerhead Ribozymes. <i>Journal of the American Chemical Society</i> , 2004, 126, 744-752.	13.7	28
21	Effect of water concentration on photoreduction of anthraquinone-2-sulfonate by 2-propanol in aqueous acetonitrile solution. <i>The Journal of Physical Chemistry</i> , 1987, 91, 6547-6551.	2.9	26
22	Solvation for Ions and Counterions: A Complementary Relation between Ion ⁺ Counterion and Ion ⁻ Solvent Interaction. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5095-5100.	2.5	25
23	Self-Association of m-Cresol in Aqueous Organic Solvents: A Relation to Enzymatic Polymerization Reaction. <i>Journal of Physical Chemistry B</i> , 2002, 106, 1421-1429.	2.6	25
24	Solvation-controlled clustering of a phenol ⁻ pyridine acid ⁻ base pair. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3339-3346.	1.7	24
25	Relation of Hydrophobic Effect with Salt Effect: A On the Viewpoint of Cluster Structure. <i>Journal of Physical Chemistry B</i> , 2002, 106, 899-901.	2.6	24
26	Preferential Solvation and Self-Association in Alcohol ⁻ Acetonitrile Mixtures Observed through Mass Spectrometric Analysis of Clusters: A Influence of Alkyl Chain Length. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3479-3487.	2.6	24
27	Small-angle x-ray scattering measurement of a mist of ethanol nanodroplets: An approach to understanding ultrasonic separation of ethanol-water mixtures. <i>Journal of Chemical Physics</i> , 2007, 127, 031101.	3.0	24
28	Nucleation in alkali metal chloride solution observed at the cluster level. <i>Faraday Discussions</i> , 2007, 136, 299.	3.2	24
29	Preferential Solvation of Na ⁺ in N,N-Dimethylformamide ⁻ Water Binary Mixture. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11827-11829.	2.6	23
30	Solvation of Tetraalkylammonium Chlorides in Acetonitrile-Water Mixtures: Mass Spectrometry and Molecular Dynamics Simulations. <i>ChemPhysChem</i> , 2005, 6, 1307-1315.	2.1	22
31	Central metal ion exchange in a coordination polymer based on lanthanide ions and di(2-ethylhexyl)phosphoric acid: Exchange rate and tunable affinity. <i>Journal of Colloid and Interface Science</i> , 2014, 413, 65-70.	9.4	22
32	Molecular self-assembly controlled by acid ⁻ base non-covalent interactions: a mass spectrometric study of some organic acids and bases. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 3539-3544.	1.7	21
33	Cluster Formation of 1-Butanol ⁻ Water Mixture Leading to Phase Separation. <i>Journal of Solution Chemistry</i> , 2004, 33, 721-732.	1.2	21
34	Preferential solvation of perfluorooctanoic acid (PFOA) by methanol in methanol ⁻ water mixtures: A potential overestimation of the dissociation constant of PFOA using a Yasuda ⁻ Shedlovsky plot. <i>Atmospheric Environment</i> , 2012, 49, 411-414.	4.1	21
35	Lanthanide ion exchange properties of a coordination polymer consisting of di(2-ethylhexyl) phosphoric acid and trivalent metal ions (Ce ³⁺ , Fe ³⁺ , or Al ³⁺). <i>Dalton Transactions</i> , 2014, 43, 4807.	3.3	20
36	Cluster Structures in Aqueous HNO ₃ and H ₂ SO ₄ Solutions: A In Relation with Equivalent Conductivity. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4779-4783.	2.5	19

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37	A mass spectrometric study of solvated clusters of ions and ion pairs generated from lithium halide solutions in polar solvents: Acetonitrile compared to methanol. <i>Journal of Molecular Liquids</i> , 2003, 103-104, 319-329.	4.9	17
38	Selective Crystallization of Phosphoester Coordination Polymer for the Separation of Neodymium and Dysprosium: A Thermodynamic Approach. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12730-12735.	2.6	17
39	Separation of neodymium and dysprosium by forming coordination polymers. <i>Separation and Purification Technology</i> , 2016, 157, 162-168.	7.9	17
40	Solvent effect on acid-base clustering between acetic acid and pyridine. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 95-100.	0.9	16
41	Steric effect involved in Ln ³⁺ /Ce ³⁺ exchange in a coordination polymer based on di(2-ethylhexyl)phosphoric acid. <i>Dalton Transactions</i> , 2014, 43, 1791-1796.	3.3	16
42	Acid-base interaction from the viewpoint of molecular clustering Effects of solvent, pKa and size of alkyl group. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 547-552.	1.7	15
43	Clustering Structure of Aqueous Solution of Kinetic Inhibitor of Gas Hydrates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16879-16885.	2.6	15
44	Hydrogen-bonding self-association of 1-pentanol controlled by the relativity of interaction energies. <i>Journal of Molecular Liquids</i> , 2009, 149, 45-51.	4.9	14
45	Rigid or floppy water-containing dipole-bound dimer anions. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 40, 55-61.	1.0	13
46	Reorganization of clusters through hydrophobic and hydrogen-bonding interaction in pyridine-phenol-water solution. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2105-2106.	2.0	12
47	Non-covalent binary interactions between some organic acids and bases. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 4289-4293.	1.7	12
48	Molecular self-assembly composed of aromatic hydrogen-bond donor-acceptor complexes. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3813-3817.	1.7	11
49	Relationship between the size of mist droplets and ethanol condensation efficiency at ultrasonic atomization on ethanol-water mixtures. <i>AIChE Journal</i> , 2010, 56, 810-814.	3.6	10
50	Experimental approach to see molecular clustering in electrolyte solutions: Mass spectrometric analysis of nitric acid and sulfuric acid solutions. <i>Journal of Molecular Liquids</i> , 2000, 88, 121-127.	4.9	9
51	Cluster Structure of Imidazolium Salts in Methanol Controlled by the Balance of Interactions: Cation-Anion, Cation-Solvent, and Anion-Solvent. <i>Analytical Sciences</i> , 2008, 24, 1311-1314.	1.6	9
52	Data Mining of Supersecondary Structure Homology between Light Chains of Immunoglobulins and MHC Molecules: Absence of the Common Conformational Fragment in the Human IgM Rheumatoid Factor. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 584-591.	5.4	9
53	Tunable Selectivity of Lanthanide Ion Exchange within a Coordination Polymer. <i>Analytical Sciences</i> , 2013, 29, 685-687.	1.6	9
54	Interactions of a Nucleoside Cytidine with Metal Ions in Water Observed through Mass Spectrometry: Clustering Controlled by Electrostatic Interaction and Coordinating Interaction. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5612-5616.	2.6	8

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55	Molecular clustering inherent in the liquid state: Effect of relativity in intermolecular interaction energy. <i>Journal of Molecular Liquids</i> , 2014, 189, 44-51.	4.9	8
56	Clustering of a hydrogen-bonding complex between pyridine and pyrrole: correlation with nucleation of intermolecular compounds. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2727.	2.0	7
57	Effect of Inhibitor Methanol on the Microscopic Structure of Aqueous Solution. <i>Annals of the New York Academy of Sciences</i> , 2000, 912, 797-806.	3.8	7
58	Environmentally friendly separation of dysprosium and neodymium by fractional precipitation of coordination polymers. <i>RSC Advances</i> , 2014, 4, 20496-20498.	3.6	6
59	Energetics for preferential solvation of a chromium complex in aqueous organic solvent. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2167.	1.7	5
60	Microscopic environment of metal ion controlled by the balance between preferential solvation and coordination. <i>Chemical Communications</i> , 2003, , 592-593.	4.1	5
61	A Reactor System Using Electrospray in the Liquid Phase and Its Application in Selective Cyclosiloxane Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4878-4882.	3.7	5
62	Carbon clusters vaporized directly from graphite through laser vaporization. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 347.	2.0	4
63	First observation of clusters for solvated tropylium ions. <i>Chemical Communications</i> , 2001, , 1768-1769.	4.1	4
64	Direct Evidence of Ion-dipole Interaction between Imidazolium Cations and Polar Molecules in Ionic Liquid Solutions by Means of Mass Spectrometric Analysis of Clusters. <i>Chemistry Letters</i> , 2005, 34, 706-707.	1.3	4
65	EOSIN Y SENSITIZED REDUCTION OF QUINONES TO THEIR PERSISTENT RADICAL ANIONS. <i>Chemistry Letters</i> , 1985, 14, 293-294.	1.3	3
66	Use of solid carbon dioxide to alleviate fluorescence quenching by oxygen. <i>Analytical Chemistry</i> , 1990, 62, 2654-2656.	6.5	3
67	The simplest process in the growth of carbon clusters: C2 formation from C1 following laser vaporization of graphite. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 77.	2.0	3
68	Clustering of a hydrogen-bonding complex between indole and isoquinoline Correlation with nucleation of intermolecular compounds. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 1405-1408.	1.7	3
69	Cluster structures determined by ion-molecular interactions: preferential solvation and acid-base neutralization. <i>Journal of Molecular Liquids</i> , 2005, 119, 195-200.	4.9	3
70	Small-angle X-ray scattering investigation of water droplets in mist. <i>Journal of Applied Crystallography</i> , 2007, 40, s318-s320.	4.5	3
71	Physicochemical Properties of Aqueous Solutions from the Viewpoint of Cluster Structures Analyzed by Mass Spectrometry. <i>Bunseki Kagaku</i> , 2010, 59, 743-758.	0.2	3
72	USE OF ALCOHOL AS AN EFFICIENT REDUCTANT IN DYE SENSITIZED REDUCTION OF METHYL VIologen. <i>Chemistry Letters</i> , 1985, 14, 295-296.	1.3	2

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73	Solvent Effects and Molecular Clusters: Especially in Aqueous Organic Solvents.. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 1994, 52, 478-487.	0.1	2
74	Diluted effects on n-propanol. Physica B: Condensed Matter, 1996, 219-220, 568-570.	2.7	2
75	Size-controlled Synthesis of Zeolitic Imidazolate Framework-67 (ZIF-67) Using Electrospray in Liquid Phase. Chemistry Letters, 2020, 49, 875-878.	1.3	2
76	Preferential Association of 7-Azaindole Dimer in Acetonitrile Studied by Mass Spectrometry. Chemistry Letters, 1997, 26, 123-124.	1.3	1
77	Direct Observation of Acid-Base Interaction by Means of Mass Spectrometry for Clusters. Chemistry Letters, 1997, 26, 1097-1098.	1.3	1
78	Theoretical study on the structure and stability of the clusters of tropylium ion solvated by methanol molecules. Computational and Theoretical Chemistry, 2001, 574, 117-125.	1.5	1
79	Direct Observation of the Li+â€“18-Crown-6 Complex Working as H2O Capture in Acetoneâ€“Water Mixture. Chemistry Letters, 2004, 33, 214-215.	1.3	1
80	Microscopic Structures in Water-propylene Glycol Monoalkyl Ether Binary Mixtures as Clarified by NMR and Mass Spectrometry. Journal of Oleo Science, 2006, 55, 647-652.	1.4	1
81	Ln³⁺ Adsorption into an Yttrium-Hdehp Coordination Polymer through Exchange with Coordinated Yttrium Ion. Solvent Extraction Research and Development, 2014, 21, 83-87.	0.4	1
82	Binuclear $\frac{1}{4}$ -Perchlorato Complexes of Alkaline Earth Metal Ions Studied by Electrospray Ionization Mass Spectrometry and DFT Calculations. Chemistry Letters, 2006, 35, 1118-1119.	1.3	0
83	Continuous dispersion and size control of gas-phase fullerene C60 particles using a simple method. Micro and Nano Letters, 2010, 5, 193.	1.3	0