

Yukiteru Katsumoto

List of Publications by Year in descending order

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72
papers

2,105
citations

201674

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docs citations

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times ranked

2464
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of cooperative hydrogen bonding on the OH stretching-band shift for water clusters studied by matrix-isolation infrared spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3005.	2.8	227
2	Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. <i>Macromolecules</i> , 2011, 44, 5817-5821.	4.8	133
3	Water-Induced Brittle-Ductile Transition of Double Network Hydrogels. <i>Macromolecules</i> , 2010, 43, 9495-9500.	4.8	104
4	Dissecting the Mechanism of the Heat-Induced Phase Separation and Crystallization of Poly(2-isopropyl-2-oxazoline) in Water through Vibrational Spectroscopy and Molecular Orbital Calculations. <i>Macromolecules</i> , 2012, 45, 3531-3541.	4.8	80
5	Relationship between the Broad OH Stretching Band of Methanol and Hydrogen-Bonding Patterns in the Liquid Phase. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7342-7348.	2.5	77
6	Kinetic Aspect on Gelation Mechanism of Tetra-PEG Hydrogel. <i>Macromolecules</i> , 2014, 47, 3274-3281.	4.8	76
7	Tacticity Effects on the Phase Diagram for Poly(N-isopropylacrylamide) in Water. <i>Macromolecules</i> , 2008, 41, 5955-5956.	4.8	72
8	SANS and DLS Study of Tacticity Effects on Hydrophobicity and Phase Separation of Poly(N-isopropylacrylamide). <i>Macromolecules</i> , 2013, 46, 6225-6232.	4.8	65
9	Contribution of Intramolecular CO ⁺ -H ⁻ N Hydrogen Bonding to the Solvent-Induced Reentrant Phase Separation of Poly(N-isopropylacrylamide). <i>Journal of Physical Chemistry B</i> , 2007, 111, 12730-12737.	2.6	63
10	Applications of Moving Window Two-Dimensional Correlation Spectroscopy to Analysis of Phase Transitions and Spectra Classification. <i>Analytical Chemistry</i> , 2003, 75, 4010-4018.	6.5	59
11	Surface melting and crystallization behavior of polyhydroxyalkanoates studied by attenuated total reflection infrared spectroscopy. <i>Polymer</i> , 2004, 45, 6547-6554.	3.8	57
12	Origin of the Blue Shift of the CH Stretching Band for 2-Butoxyethanol in Water. <i>Journal of the American Chemical Society</i> , 2006, 128, 9278-9279.	13.7	54
13	Force Spectroscopy Study on Poly(acrylamide) Derivatives: Effects of Substitutes and Buffers on Single-Chain Elasticity. <i>Nano Letters</i> , 2002, 2, 1169-1172.	9.1	52
14	Thermally induced phase transition of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) investigated by two-dimensional infrared correlation spectroscopy. <i>Vibrational Spectroscopy</i> , 2004, 36, 241-249.	2.2	52
15	Picosecond IR-UV pump-probe spectroscopic study on the vibrational energy flow in isolated molecules and clusters. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1170-1185.	2.8	50
16	Kinetic Study for AB-Type Coupling Reaction of Tetra-Arm Polymers. <i>Macromolecules</i> , 2012, 45, 1031-1036.	4.8	45
17	Molecular Understanding of the UCST-Type Phase Separation Behavior of a Stereocontrolled Poly(N-isopropylacrylamide) in Bis(2-methoxyethyl) Ether. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10854-10860.	2.6	44
18	Practical Algorithm for Reducing Convex Spike Noises on a Spectrum. <i>Applied Spectroscopy</i> , 2003, 57, 317-322.	2.2	43

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19	Molecular Interpretation for the Solvation of Poly(acrylamide)s. I. Solvent-Dependent Changes in the CO Stretching Band Region of Poly(N,N-dialkylacrylamide)s. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20690-20696.	2.6	41
20	Thermoreversible gelation of isotactic-rich poly(<i>N</i> -isopropylacrylamide) in water. <i>Journal of Chemical Physics</i> , 2011, 135, 114903.	3.0	41
21	Rubber elasticity for incomplete polymer networks. <i>Journal of Chemical Physics</i> , 2012, 137, 224903.	3.0	40
22	Near-Infrared Spectroscopic Study of Interaction between Methyl Group and Water in Water-Methanol Mixtures. <i>Applied Spectroscopy</i> , 2002, 56, 357-361.	2.2	38
23	Molecular Approach To Understand the Tacticity Effects on the Hydrophilicity of Poly(<i>N</i> -isopropylacrylamide): Solubility of Dimer Model Compounds in Water. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13312-13318.	2.6	37
24	Absolute Configuration and Conformation Analysis of 1-Phenylethanol by Matrix-Isolation Infrared and Vibrational Circular Dichroism Spectroscopy Combined with Density Functional Theory Calculation. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8598-8605.	2.5	32
25	Relationship between the coil-globule transition of an aqueous poly(<i>N</i> -isopropylacrylamide) solution and structural changes in local conformations of the polymer. <i>Macromolecular Symposia</i> , 2004, 205, 209-224.	0.7	31
26	Crystallization behavior of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) studied by 2D IR correlation spectroscopy. <i>Polymer</i> , 2004, 45, 7159-7165.	3.8	30
27	Thermally induced double proton transfer in GG and wobble GT base pairs: A possible origin of the mutagenic guanine. <i>Chemical Physics Letters</i> , 2008, 457, 232-236.	2.6	29
28	Multivariate analysis of DSC-XRD simultaneous measurement data: a study of multistage crystalline structure changes in a linear poly(ethylene imine) thin film. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 367-376.	3.7	23
29	Phase Diagrams of Stereocontrolled Poly(<i>N,N</i> -diethylacrylamide) in Water. <i>Macromolecules</i> , 2010, 43, 3120-3121.	4.8	22
30	Usefulness of a Curve Fitting Method in the Analysis of Overlapping Overtones and Combinations of CH Stretching Modes. <i>Journal of Near Infrared Spectroscopy</i> , 2002, 10, 85-91.	1.5	19
31	Matrix-isolation infrared spectra of 2-, 3- and 4-pyridinecarboxaldehyde before and after UV irradiation. <i>Journal of Molecular Structure</i> , 2006, 825, 143-150.	3.6	19
32	Intramolecular CH \cdots E and CH \cdots O interactions in the conformational stability of benzyl methyl ether studied by matrix-isolation infrared spectroscopy and theoretical calculations. <i>Journal of Molecular Structure</i> , 2007, 827, 155-164.	3.6	19
33	Reconsidering the activation entropy for anomerization of glucose and mannose in water studied by NMR spectroscopy. <i>Journal of Molecular Structure</i> , 2015, 1093, 195-200.	3.6	19
34	Accelerating the Phase Separation in Aqueous Poly(<i>N</i> -isopropylacrylamide) Solutions by Slight Modification of the Polymer Stereoregularity: A Single Molecule Fluorescence Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10818-10824.	3.1	17
35	Effects of Syndiotacticity on the Dynamic and Static Phase Separation Properties of Poly(<i>N</i> -isopropylacrylamide) in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7724-7730.	2.6	16
36	LCST phase separation and thermoreversible gelation in aqueous solutions of stereo-controlled poly(<i>N</i> -isopropylacrylamide)s. <i>Reactive and Functional Polymers</i> , 2013, 73, 894-897.	4.1	15

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37	Micellization of poly(ethylene oxide)-poly(propylene oxide) alternating multiblock copolymers in water. <i>Polymer</i> , 2018, 156, 102-110.	3.8	15
38	Application of multivariate analysis of NMR spectra of poly(N-isopropylacrylamide) to assignment of stereostructures and prediction of tacticity distribution. <i>Polymer Journal</i> , 2012, 44, 815-820.	2.7	14
39	Evolutionary behaviour of miniemulsion phases: II. Growth mechanism of miniemulsion droplets. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 3569-3583.	1.8	13
40	Dimerization and Double Proton Transfer-Induced Tautomerism of 4(3H)-Pyrimidinone in Solution Studied by IR Spectroscopy and Quantum Chemical Calculations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26388-26395.	2.6	12
41	Infrared spectroscopic study of molecular interaction of tacticity-controlled poly(N-isopropylacrylamide) in a cast film deposited on a solid substrate. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2203-2209.	3.7	12
42	Association Behavior of Poly(ethylene oxide)-Poly(propylene oxide) Alternating Multiblock Copolymers in Water toward Thermally Induced Phase Separation. <i>Langmuir</i> , 2017, 33, 14649-14656.	3.5	12
43	Unimer Structure and Micellization of Poly(ethylene oxide)-Stereocontrolled Poly(N-isopropylacrylamide) Alternating Multiblock Copolymers in Aqueous Solution. <i>Macromolecules</i> , 2019, 52, 7188-7196.	4.8	12
44	Effects of dipole interaction and solvation on the C O stretching band of N,N-dimethylacetamide in nonpolar solutions: Infrared, isotropic and anisotropic Raman measurements. <i>Vibrational Spectroscopy</i> , 2009, 51, 119-124.	2.2	11
45	Solvent-Dependent Properties and Higher-Order Structures of Aryl Alcohol + Surfactant Molecular Gels. <i>Langmuir</i> , 2016, 32, 4352-4360.	3.5	11
46	Dynamics of the Phase Separation in a Thermoresponsive Polymer: Accelerated Phase Separation of Stereocontrolled Poly(N,N-diethylacrylamide) in Water. <i>Langmuir</i> , 2018, 34, 13690-13696.	3.5	11
47	Relationship between the phase diagram and hysteresis in demixing and remixing for atactic and meso-rich Poly(N-isopropylacrylamide)s in water. <i>Polymer</i> , 2019, 161, 92-100.	3.8	11
48	Vibrational anharmonicity of acetic acid studied by matrix-isolation near-infrared spectroscopy and DFT calculation. <i>Chemical Physics Letters</i> , 2005, 413, 367-372.	2.6	10
49	Hydration of Short-Chain Poly(oxyethylene) in Carbon Tetrachloride: An Infrared Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19704-19710.	2.6	10
50	Conformation and Atropisomeric Properties of Indometacin Derivatives. <i>Chemistry - A European Journal</i> , 2013, 19, 7056-7063.	3.3	10
51	Microanalysis of Single Poly(N-isopropylacrylamide) Droplet Produced by an Optical Tweezer in Water: Isotacticity Dependence of Growth and Chemical Structure of the Droplet. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8454-8463.	2.6	10
52	Correlation between the local OH stretching vibration wavenumber and the hydrogen bonding pattern of water in a condensed phase: Quantum chemical approach to analyze the broad OH band. <i>Journal of Molecular Structure</i> , 2012, 1029, 209-216.	3.6	9
53	Solvent effect on the competition between weak and strong interactions in phenol solutions studied by near-infrared spectroscopy and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19188-19194.	2.8	9
54	Induced circular dichroism in chiral N-methyl amides possessing an achiral binaphthyl chromophore and its application to absolute configuration determination of aliphatic chiral amines. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 981-991.	1.8	7

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55	Structures of Naphtholâ€“AOT Self-assembly Organogels and Their Applications to Dispersing Media of Rare-earth Complexes. <i>Chemistry Letters</i> , 2014, 43, 1861-1863.	1.3	6
56	Characteristic responses of a 1,2-dipalmitoleoyl-sn-glycero-3- phosphoethanolamine molecular layer depending on the number of CH(OH) groups in polyols. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 560, 149-153.	4.7	6
57	Controlling the kinetics of interaction between microtubules and kinesins over a wide temperature range using the deep-sea osmolyte trimethylamineN-oxide. <i>Chemical Communications</i> , 2020, 56, 1187-1190.	4.1	6
58	Local motions of polystyrene chain in semi-concentrated polymer solutions. <i>European Polymer Journal</i> , 2001, 37, 475-483.	5.4	5
59	Two Characteristic H-bonded Oâ€“H Stretching Bands for the Compounds Containing Ether Oxygen and Hydroxyl Oxygen. <i>Chemistry Letters</i> , 2005, 34, 250-251.	1.3	5
60	Blue Shift of the Isolated CD Stretching Band of CH ₂ DOH in Water Induced by Changes in the Hydrogen-Bonding Pattern. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11971-11976.	2.5	5
61	Infrared spectroscopic study of stereo-controlled poly(N-isopropylacrylamide) with an extended chain conformation induced by adsorption on a gold surface. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9411-9418.	3.7	5
62	Transient Reciprocating Motion of a Self-Propelled Object Controlled by a Molecular Layer of a <i>N</i> -Stearoyl- <i>p</i> -nitroaniline: Dependence on the Temperature of an Aqueous Phase. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14888-14893.	3.1	5
63	Evolutionary behaviour of miniemulsion phases: I. Hard sphere interaction and bound water on miniemulsion droplets. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 249-264.	1.8	4
64	Raman, X-ray diffraction and differential scanning calorimetry studies of the melt-induced changes in uncompatibilized and compatibilized blends of high-density polyethylene and nylon 12. <i>Macromolecular Symposia</i> , 2002, 184, 339-348.	0.7	4
65	Thermal Stability of the Hydration Structure of Short-chain Poly(oxyethylene) in Carbon Tetrachloride: An Infrared Spectroscopic Observation of the Breakdown of Hydrogen Bonds. <i>Chemistry Letters</i> , 2005, 34, 502-503.	1.3	4
66	Reversal Phenomenon of Reaction Velocity in a Mixed Reaction System: Silylations between Simple Alcohols and α - or β -Hydroxyketones Using Anilinosilanes and Catalytic TBAF Agent. <i>Journal of Organic Chemistry</i> , 2007, 72, 4970-4973.	3.2	3
67	Effect of Molecular Weight on Cloud Point of Aqueous Solution of Poly (ethylene oxide)â€“Poly (propylene oxide) Alternating Multiblock Copolymer. <i>Journal of Oleo Science</i> , 2020, 69, 449-453.	1.4	3
68	Synthesis of optically clear molecular organogels using phenol and a sulfosuccinic surfactant in various solvents with cyclic geometries. <i>Journal of Molecular Liquids</i> , 2018, 268, 685-690.	4.9	2
69	Characteristic responses of a 1,2-dioleoyl-sn-glycero-3-phosphocholine molecular layer to monovalent and divalent metal cations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125115.	4.7	1
70	Amphiphilic, Thermoresponsive Polymers Interacting with Explicit Solvent. <i>Physical Chemistry in Action</i> , 2021, , 337-361.	0.6	1
71	Straightforward Approach to the Discrimination of (4R)- and (4S)- β -Isocryptoxanthin from a Conformationally Insensitive CD Band. <i>Natural Product Communications</i> , 2010, 5, 1934578X1000501.	0.5	0
72	Application of a novel chromophoric reagent, 2,2'-binaphthyl-3,3'-dicarbonyl cyanide, to the absolute configuration determination of chiral secondary alcohols. <i>Tetrahedron Letters</i> , 2020, 61, 151984.	1.4	0