Fumitoshi Kaneko

List of Publications by Year
in descending order

88	1,501	304743 22	361022 35
papers	citations	h-index	g-index

89	89	89	847
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vibrational spectroscopic study on polymorphism and order-disorder phase transition in oleic acid. The Journal of Physical Chemistry, 1986, 90, 6371-6378.	2.9	139
2	The First Example of a Polymer-Crystalâ€“Organic-Dye Composite Material: The Clathrate Phase of Syndiotactic Polystyrene with Azulene. Advanced Materials, 2005, 17, 1846-1850.	21.0	85
3	Structure and Crystallization Behavior of the Î² Phase of Oleic Acid. Journal of Physical Chemistry B, 1997, 101, 1803-1809.	2.6	73
4	Selective Guest Uptake from Solvent Mixtures in the Clathrate Phase of Syndiotactic Polystyrene. Macromolecular Rapid Communications, 2004, 25, 1900-1904.	3.9	64
5	FT-IR study of polymorphic transformations in SOS, POP, and POS. The Journal of Physical Chemistry, 1993, 97, 12967-12973.	2.9	58
6	Diversity in the fatty-acid conformation and chain packing of cis-unsaturated lipids. Current Opinion in Structural Biology, 1998, 8, 417-425.	5.7	57
7	Molecular-Complex Formation of Syndiotactic Polystyrene with Stable Radical Molecules. Macromolecular Rapid Communications, 2006, 27, 1643-1647.	3.9	50
8	Structural analyses of polymorphic transitions of sn -1,3-distearoyl-2-oleoylglycerol (SOS) and sn -1,3-dioleoyl-2-stearoylglycerol (OSO): assessment on steric hindrance of unsaturated and saturated acyl chain interactions. Journal of Lipid Research, 1999, 40, 140-151.	4.2	50
9	Structure and transformation in polymorphism of petroselinic acid (cis-.omega.-12-octadecenoic acid). The Journal of Physical Chemistry, 1990, 94, 3180-3185.	2.9	43
10	Structural Study on Polymorphism of Cis-Unsaturated Triacylglycerol:Â Triolein. Journal of Physical Chemistry B, 2006, 110, 4346-4353.	2.6	43
11	Guest exchange process in syndiotactic polystyrene thin films measured by ATR-FTIR spectroscopy. Polymer, 2004, 45, 2221-2229.	3.8	35
12	Structural Analyses and Triacylglycerol Polymorphs with FT-IR Techniques. 2. Î²â€˜1-Form of 1,2-Dipalmitoyl-3-myristoyl-sn-glycerol. Journal of Physical Chemistry B, 1997, 101, 8120-8128.	2.6	32
13	Structural Analyses of Triacylglycerol Polymorphs with FT-IR Techniques. 1. Assignments of CH2Progression Bands of Saturated Monoacid Triacylglycerols. Journal of Physical Chemistry B, 1997, 101, 8112-8119.	2.6	30
14	Adsorption-Induced Conformational Changes of Antifreeze Glycoproteins at the Ice/Water Interface. Journal of Physical Chemistry B, 2007, 111, 14355-14361.	2.6	28
15	Solid-state13C NMR Study on Order â†' Disorder Phase Transition in Oleic Acid. Journal of Physical Chemistry B, 2004, 108, 4862-4868.	2.6	27
16	Oblique Infrared Transmission Spectroscopic Study on the E .fwdarw. C and B .fwdarw. C Phase Transitions of Stearic Acid: Effects of Polytypic Structure. The Journal of Physical Chemistry, 1994, 98, 2185-2191.	2.9	26
17	Infrared Spectroscopic and Chemical Etching Study on the Crystallization Process of the B and E Forms of Stearic Acid: Roles of Dislocations in Single Crystals. The Journal of Physical Chemistry, 1994, 98, 3801-3808.	2.9	26
18	Mechanism of the Î³ â†' Î± and Î³1 â†' Î±1 Reversible Solid-State Phase Transitions of Erucic Acid. The Journal of Physical Chemistry, 1996, 100, 9138-9148.	2.9	26

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19	Guest Exchange withn-Alkanes and Hostâ^'Guest Interactions in the Clathrate Phase of Syndiotactic Polystyrene. Macromolecules, 2005, 38, 3320-3326.	4.8	25
20	Martensitic Phase Transition of Petroselinic Acid:Â Influence of Polytypic Structure. Journal of Physical Chemistry B, 1997, 101, 285-292.	2.6	24
21	Polymorphic transformations during crystallization processes of fatty acids studied with FT-IR spectroscopy. Journal of Crystal Growth, 1999, 198-199, 1352-1359.	1.5	23
22	States of molecular assembly and physical properties of crystalline longâ€chain compounds studied by vibrational spectroscopy. Makromolekulare Chemie Macromolecular Symposia, 1986, 5, 1-20.	0.6	22
23	Vibrational spectroscopic study on the occurrence of stearic acid B and E forms: heterogeneous nucleation of the B form on the surface of E crystals and the topotactic phase transition from E to B. The Journal of Physical Chemistry, 1992, 96, 10554-10559.	2.9	22
24	Crystalline Complex of Syndiotactic Polystyrene with Poly(ethylene Glycol) Dimethyl Ethers. Macromolecular Rapid Communications, 2011, 32, 988-993.	3.9	22
25	Vibrational spectroscopic study on polymorphism of erucic acid and palmitoleic acid: Î³1â†'Î±1 and Î³â†'Î± reversible solid state phase transitions. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1589-1603.	0.1	21
26	X-ray and vibrational spectroscopic study on polymorphism of trielaidin. Journal of Crystal Growth, 2002, 237-239, 2227-2232.	1.5	19
27	Complexation of Syndiotactic Polystyrene with 12â€Crownâ€4. Macromolecular Rapid Communications, 2010, 31, 554-557.	3.9	18
28	Solid-State Low Temperature â†' Middle Temperature Phase Transition of Linoleic Acid Studied by FTIR Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 6289-6295.	2.6	17
29	Dynamics of polar aromatic molecules confined in a nanocavity of Î´-phase of syndiotactic polystyrene as studied by dielectric spectroscopy. Chemical Physics, 2016, 479, 122-128.	1.9	17
30	MOLECULAR AMD CRYSTAL STRUCTURES OF LIPIDS AND RELATED COMPOUNDS. Journal of Dispersion Science and Technology, 1989, 10, 319-350.	2.4	16
31	ATR FTIR spectroscopic study on acceleration effect of additives on guest exchange process of Syndiotactic polystyrene complexes. Polymer, 2013, 54, 760-765.	3.8	16
32	Guest Exchange Mechanism in the Clathrate Phase of Syndiotactic Polystyrene. Macromolecules, 2005, 38, 3380-3385.	4.8	15
33	Development of a Simultaneous SANS/FTIR Measuring System. Chemistry Letters, 2015, 44, 497-499.	1.3	15
34	Time-resolved SANS studies on guest exchange processes in co-crystals ofÂsyndiotactic polystyrene. Polymer, 2013, 54, 3145-3149.	3.8	14
35	Structural and Dynamical Properties of n-Alkane Molecules in Clathrate Phase of Syndiotactic Polystyrene. Macromolecular Symposia, 2006, 242, 113-119.	0.7	13
36	Complexation of Syndiotactic Polystyrene with Crown Ethers: 12-Crown-4, 15-Crown-5 and 18-Crown-6. Soft Materials, 2011, 9, 107-123.	1.7	13

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37	Polarized infrared attenuated total reflection spectroscopy for threeâ€dimensional structural analysis on longâ€chain compounds. Journal of Chemical Physics, 1996, 105, 4812-4822.	3.0	12
38	Dielectric Relaxation of Guest Molecules in a Clathrate Structure of Syndiotactic Polystyrene. Journal of Physical Chemistry B, 2012, 116, 14461-14469.	2.6	12
39	Anisotropic Dynamics of Benzonitrile Confined in Î´ and Îµ Clathrate Phases of Syndiotactic Polystyrene. Macromolecules, 2018, 51, 8611-8619.	4.8	12
40	Collective displacement of acyl chains on E .fwdarw. C phase transition of stearic acid. The Journal of Physical Chemistry, 1992, 96, 7104-7107.	2.9	11
41	Development of a micro-FT-IR system for three-dimensional structural studies. Vibrational Spectroscopy, 2003, 31, 11-17.	2.2	11
42	Polytypic Transition of n-Hexatriacontane during Solution Crystallization. Crystal Growth and Design, 2004, 4, 369-375.	3.0	11
43	Structural changes in solventâ€induced crystallization of syndiotactic polystyrene viewed from the timeâ€resolved measurements of infrared/Raman spectra and Xâ€ray diffraction. Macromolecular Symposia, 1999, 141, 33-46.	0.7	10
44	Temperature Dependence of Structure and Dynamic Properties of Oleic Acid Î³ and Î± Phases Studied by FTIR Spectroscopy. Bulletin of the Chemical Society of Japan, 2011, 84, 403-412.	3.2	10
45	Simultaneous small-angle neutron scattering and Fourier transform infrared spectroscopic measurements on cocrystals of syndiotactic polystyrene with polyethylene glycol dimethyl ethers. Journal of Applied Crystallography, 2016, 49, 1420-1427.	4.5	10
46	Time-resolved small-angle neutron scattering study on guest-exchange processes in co-crystals of syndiotactic polystyrene. Journal of Applied Crystallography, 2014, 47, 6-13.	4.5	10
47	Structural study on polymorphism of long-chain dicarboxylic acids using oblique transmission method for micro FT-IR spectrometers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 9-18.	3.9	9
48	ATR FTIR Spectroscopic Study on Insect Body Surface Lipids Rich in Methylene-Interrupted Diene. Journal of Physical Chemistry B, 2018, 122, 12322-12330.	2.6	9
49	Interactive Polymorphic Crystallization Behavior in Eutectic Triacylglycerol Mixtures Containing Molecular Compound Crystals. Crystal Growth and Design, 2022, 22, 1753-1763.	3.0	9
50	Two Martensitic Transitions in the Opposite Directions in Pentadecanoic Acid. Journal of Physical Chemistry B, 1998, 102, 327-330.	2.6	8
51	Simultaneous SAXS and WAXS Study on the Guest Exchange Process of Syndiotactic Polystyrene: Crystalline Complex Formation with Triethylene Glycol Dimethyl Ether. Macromolecular Chemistry and Physics, 2013, 214, 1893-1900.	2.2	8
52	Binary Phase Behavior of 1,3-Distearoyl-2-oleoyl-sn-glycerol (SOS) and Trilaurin (LLL). Molecules, 2020, 25, 5313.	3.8	8
53	Photoacoustic Experimental System To Confirm Infrared Absorption Due to Greenhouse Gases. Journal of Chemical Education, 2010, 87, 202-204.	2.3	7
54	Polytypic structure and low-frequency Raman spectra of long-chain compounds: Stearic acid E form. Journal of Raman Spectroscopy, 1993, 24, 527-532.	2.5	6

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55	Quasi-elastic neutron scattering study on polymorphism of tristearin: relationship between dynamical properties and subcell structures. Journal of Crystal Growth, 2005, 275, e2187-e2193.	1.5	6
56	Open end correction for a flanged circular tube using the diffusion process. European Journal of Physics, 2013, 34, 1159-1165.	0.6	6
57	ATR FTIR Spectroscopic Study on Complexation of Sydiotactic Polystyrene with nâ€Alkyl Carboxylic Acids. Macromolecular Symposia, 2016, 369, 114-118.	0.7	6
58	Structural Study on Fat Crystallization Process Heterogeneously Induced by Graphite Surfaces. Molecules, 2020, 25, 4786.	3.8	6
59	The influence of polytypic structures on the M011â†'M101 solidâ€"solid phase transition of n-C36H74: An application of the oblique infrared transmission method. Journal of Chemical Physics, 2004, 121, 1121-1128.	3.0	5
60	The Influence of Polytypic Structures on the Solid-state13C NMR Spectra ofn-Alkanes. Chemistry Letters, 2004, 33, 1358-1359.	1.3	5
61	Study of thermodynamic stabilities of polytypes of n-C36H74 by solubility measurements and incoherent inelastic neutron scattering. Journal of Chemical Physics, 2005, 122, 024903.	3.0	5
62	Multiple Site Occupation of Flexible Polymeric Compounds in Cocrystals of Syndiotactic Polystyrene. Chemistry Letters, 2014, 43, 904-906.	1.3	5
63	Dynamics of Polar Low Mass Molecules Encapsulated in the Î´-cocrystal of Syndiotactic Polystyrene. Nihon Reoroji Gakkaishi, 2014, 42, 19-23.	1.0	5
64	Three-Dimensional Structural Study using Micro FT-IR Spectrometer on Polymorphism of Long-Chain Dicarboxylic Acids. Molecular Crystals and Liquid Crystals, 1998, 316, 175-178.	0.3	4
65	X-ray Diffraction and Vibrational Spectroscopic Study of the Influence of Cis- and Trans-Unsaturation on the Î±-Phase of Triacylglycerols. Journal of Physical Chemistry B, 2013, 117, 8896-8905.	2.6	4
66	Simultaneous Timeâ€Resolved SAXS and WAXS Study on Guest Exchange Process of Syndiotactic Polystyrene with Aromatic Compounds: Size and Shape Effects of Target Molecules. Macromolecular Symposia, 2016, 359, 63-71.	0.7	4
67	A new simultaneous measurement system of wide Q-range small angle neutron scattering combined with polarized Fourier transform infrared spectroscopy. Review of Scientific Instruments, 2019, 90, 093906.	1.3	4
68	Light Scattering and Absorption Complementarities to Neutron Scattering: In Situ FTIR and DLS Techniques at the High-Intensity and Extended Q-Range SANS Diffractometer KWS-2. Applied Sciences (Switzerland), 2021, 11, 5135.	2.5	4
69	Polarized FTIR ATR Spectroscopic Study on the Structure of Chocolate: Influence of Mold on Fat Crystalline Structures. Crystal Growth and Design, 2021, 21, 3290-3298.	3.0	4
70	Vibrational Spectroscopic Study on Trigonal Poly(oxymethylene) Consisting of the Extended Chain Morphology. Macromolecules, 1994, 27, 5907-5911.	4.8	3
71	A Rapid Reversible Solid-State Transition in the Aâ€˜ Form of Pentadecanoic Acid. Journal of Physical Chemistry B, 1998, 102, 6184-6187.	2.6	3
72	Polytypic transformation during crystal growth monitored by newly developed micro-FTIR system for three-dimensional structural studies. Journal of Crystal Growth, 2002, 237-239, 373-378.	1.5	3

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73	Vibrational spectroscopic study on the polytypism of n-alkanes and fatty acids. Current Opinion in Colloid and Interface Science, 2011, 16, 367-373.	7.4	3
74	Cuticular Lipid Topology on Insect Body Surfaces Studied by Synchrotron Radiation FTIR ATR Microspectroscopy. Journal of Physical Chemistry B, 2021, 125, 9757-9767.	2.6	3
75	Partial depolarization effect of high-numerical-aperture objectives on polarized microfocus Raman spectra of orthorhombic poly(oxymethylene) single crystal. Journal of Raman Spectroscopy, 2000, 31, 455-459.	2.5	2
76	Inelastic neutron scattering study on the polytypism of even-numbered -alkanes. Journal of Crystal Growth, 2005, 275, e2181-e2186.	1.5	2
77	Infrared spectroscopic study of polytypic effects on the crystal-growth mechanism of n-hexatriacontane (n-C36H74). Journal of Chemical Physics, 2005, 123, 134501.	3.0	2
78	Incoherent Quasielastic Neutron Scattering Study on the Polymorphism of Tristearin:â€‰ Dynamical Properties of Hydrocarbon Chains. Journal of Physical Chemistry B, 2007, 111, 9706-9710.	2.6	2
79	Neutron Diffraction and IR Spectroscopy Study on Crystalline Complexation of Syndiotactic Polystyrene with 15-Crown-5 and 18-Crown-6. Chemistry Letters, 2012, 41, 284-286.	1.3	2
80	Cocrystal Formation between Syndiotactic Polystyrene and Polyethylene Glycol from Binary Solute Solutions. Chemistry Letters, 2019, 48, 177-180.	1.3	2
81	Polymorphic and Polytypic Transformations during Crystallization of Long-Chain Compounds. , 1999, , 45-53.		2
82	Simple model of a photoacoustic system as a CR circuit. European Journal of Physics, 2012, 33, 623-635.	0.6	1
83	Infrared spectroscopic study on polytypic transformation of growing single crystal of n-hexatriacontane (n-C36H74). Journal of Crystal Growth, 2005, 275, e1751-e1756.	1.5	0
84	Cocrystallization of Syndiotactic Polystyrene by a Guest Exchange Phenomenon: Investigation of the Mechanism and Preparation of Polymer Composites. Kobunshi Ronbunshu, 2014, 71, 540-553.	0.2	0
85	Complexation of Syndiotactic Polystyrene with Branched Molecules. Macromolecular Symposia, 2019, 386, 1900008.	0.7	0
86	Photoacoustic Experimental System to Measure Infrared Absorption. Journal of Jsee, 2021, 69, 2_32-2_37.	0.0	0
87	First In Situ X-ray Scattering Measurements of Insect Body Surface Lipids: American Cockroach. Journal of Physical Chemistry Letters, 2021, 12, 1969-1972.	4.6	0
88	Quasielastic Neutron Scattering Study on Polymorphism of Glycerol Deuterated Triacylglycerols: Comparison with Saturated, Trans-unsaturated and Cis-unsaturated Triacylglycerols. Chemistry Letters, 2021, 50, 435-438.	1.3	0