Tetsuo Asakura

List of Publications by Year
in descending order

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415 papers	13,204 citations	27035 58 h-index	49824 91 g-index
423 all docs	423 docs citations	423 times ranked	7582 citing authors

#	Article	IF	Citations
1	Presence of Î²-Turn Structure in Recombinant Spider Silk Dissolved in Formic Acid Revealed with NMR. Molecules, 2022, 27, 511.	1.7	5
2	Acetylation and hydration treatment of recombinant spider silk fiber, and their characterization using 13C NMR spectroscopy. Polymer, 2022, 243, 124605.	1.8	3
3	Characterization of polyurethane and a silk fibroin-polyurethane composite fiber studied with NMR spectroscopies. Polymer Journal, 2022, 54, 803-813.	1.3	3
4	Formylation of Recombinant Spider Silk in Formic Acid and Wet Spinning Studied Using Nuclear Magnetic Resonance and Infrared Spectroscopies. ACS Biomaterials Science and Engineering, 2022, , .	2.6	6
5	Structure of silk I (Bombyx mori silk fibroin before spinning) in the dry and hydrated states studied using 13C solid-state NMR spectroscopy. International Journal of Biological Macromolecules, 2022, 216, 282-290.	3.6	5
6	Bioâ€functionalized titanium surfaces with modified silk fibroin carrying titanium binding motif to enhance the ossific differentiation of MC3T3â€E1. Biotechnology and Bioengineering, 2021, 118, 2585-2596.	1.7	3
7	Structural investigations of polyurethane and <scp>silkâ€polyurethane</scp> composite fiber studied by <scp>¹³C</scp> solidâ€state <scp>NMR</scp> spectroscopy. Journal of Applied Polymer Science, 2021, 138, 51178.	1.3	4
8	Evaluation of small-diameter silk vascular grafts implanted in dogs. JTCVS Open, 2021, 6, 148-156.	0.2	8
9	Structure of Silk I (Bombyx mori Silk Fibroin before Spinning) -Type II Î²-Turn, Not Î±-Helix-. Molecules, 2021, 26, 3706.	1.7	46
10	Characterization of a Water-Dispersed Biodegradable Polyurethane-Silk Composite Sponge Using 13C Solid-State Nuclear Magnetic Resonance as Coating Material for Silk Vascular Grafts with Small Diameters. Molecules, 2021, 26, 4649.	1.7	2
11	Structure and dynamics of biodegradable polyurethane-silk fibroin composite materials in the dry and hydrated states studied using 13C solid-state NMR spectroscopy. Polymer Degradation and Stability, 2021, 190, 109645.	2.7	7
12	Development of Small-diameter Polyester Vascular Grafts Coated with Silk Fibroin Sponge. Organogenesis, 2020, 16, 1-13.	0.4	12
13	Silk Fibroin as a Coating Polymer for Sirolimus-Eluting Magnesium Alloy Stents. ACS Applied Bio Materials, 2020, 3, 531-538.	2.3	36
14	Acetylation of Bombyx mori silk fibroin and their characterization in the dry and hydrated states using 13C solid-state NMR. International Journal of Biological Macromolecules, 2020, 155, 1410-1419.	3.6	10
15	Chain-folded lamellar structure and dynamics of the crystalline fraction of Bombyx mori silk fibroin and of (Ala-Gly-Ser-Gly-Ala-Gly)n model peptides. International Journal of Biological Macromolecules, 2020, 164, 3974-3983.	3.6	14
16	Silk fibroin vascular graft: a promising tissue-engineered scaffold material for abdominal venous system replacement. Scientific Reports, 2020, 10, 21041.	1.6	27
17	Structure and Dynamics of Spider Silk Studied with Solid-State Nuclear Magnetic Resonance and Molecular Dynamics Simulation. Molecules, 2020, 25, 2634.	1.7	20
18	Lamellar Structure in Alanineâ€“Glycine Copolypeptides Studied by Solid-State NMR Spectroscopy: A Model for the Crystalline Domain of Bombyx mori Silk Fibroin in Silk II Form. Biomacromolecules, 2020, 21, 3102-3111.	2.6	19

#	Article	IF	Citations
19	Biodegradable Extremely-Small-Diameter Vascular Graft Made of Silk Fibroin can be Implanted in Mice. Journal of Atherosclerosis and Thrombosis, 2020, 27, 1299-1309.	0.9	11
20	Development of Small-Diameter Elastin-Silk Fibroin Vascular Grafts. Frontiers in Bioengineering and Biotechnology, 2020, 8, 622220.	2.0	12
21	Toward Understanding the Silk Fiber Structure: ¹³C Solid-State NMR Studies of the Packing Structures of Alanine Oligomers before and after Trifluoroacetic Acid Treatment. Journal of Physical Chemistry B, 2019, 123, 6716-6727.	1.2	4
22	Packing Structure of Antiparallel Î²-Sheet Polyalanine Region in a Sequential Model Peptide of Nephila clavipes Dragline Silk Studied Using ¹³C Solid-State NMR and MD Simulation. Biomacromolecules, 2019, 20, 3884-3894.	2.6	9
23	Conformational change of 13C-labeled 47-mer model peptides of Nephila clavipes dragline silk in poly(vinyl alcohol) film by stretching studied by 13C solid-state NMR and molecular dynamics simulation. International Journal of Biological Macromolecules, 2019, 131, 654-665.	3.6	5
24	NMR Analysis of Poly(Lactic Acid) via Statistical Models. Polymers, 2019, 11, 725.	2.0	22
25	Emergence of supercontraction in regenerated silkworm (Bombyx mori) silk fibers. Scientific Reports, 2019, 9, 2398.	1.6	20
26	Advanced Silk Fibroin Biomaterials and Application to Small-Diameter Silk Vascular Grafts. ACS Biomaterials Science and Engineering, 2019, 5, 5561-5577.	2.6	44
27	Silk fibroin produced by transgenic silkworms overexpressing the Argâ€Glyâ€Asp motif accelerates cutaneous wound healing in mice. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 97-103.	1.6	24
28	Comparison of the knitted silk vascular grafts coated with fibroin sponges prepared using glycerin, poly(ethylene glycol diglycidyl ether) and poly(ethylene glycol) as porogens. Journal of Biomaterials Applications, 2018, 32, 1239-1252.	1.2	15
29	Quantitative Analysis of Solid-State Homonuclear Correlation Spectra of Antiparallel Î²-Sheet Alanine Tetramers. Journal of Physical Chemistry B, 2018, 122, 2715-2724.	1.2	6
30	Mixture of Rectangular and Staggered Packing Arrangements of Polyalanine Region in Spider Dragline Silk in Dry and Hydrated States As Revealed by ¹³C NMR and X-ray Diffraction. Macromolecules, 2018, 51, 1058-1068.	2.2	23
31	Effect of Water on the Structure and Dynamics of Regenerated [3-¹³C] Ser, [3-¹³C] , and [3-¹³C] Ala-Bombyx mori Silk Fibroin Studied with ¹³C Solid-State Nuclear Magnetic Resonance. Biomacromolecules, 2018, 19, 563-575.	2.6	19
32	Determination of Local Structure of ¹³C Selectively Labeled 47-mer Peptides as a Model for Gly-Rich Region of Nephila clavipes Dragline Silk Using a Combination of ¹³C Solid-State NMR and MD Simulation. Macromolecules, 2018, 51, 3608-3619.	2.2	14
33	NMR Studies on Silk Materials. , 2018, , 297-312.		0
34	Changes in the Local Structure of Nephila clavipes Dragline Silk Model Peptides upon Trifluoroacetic Acid, Low pH, Freeze-Drying, and Hydration Treatments Studied by ¹³C Solid-State NMR. Biomacromolecules, 2018, 19, 4396-4410.	2.6	8
35	Structural Analyses of Alanine Trimer and Tetramer Crystals with Antiparallel and Parallel Î²-Sheet Structures Using Solid-State ¹H Spin-Diffusion 2D Correlation NMR Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 9373-9381.	1.2	1
36	Structure Analysis of Bombyx mori Silk Fibroin Using NMR. , 2018, , 349-361.		1

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37	3D ¹⁴N/¹H Double Quantum/¹H Single Quantum Correlation Solidâ€State NMR for Probing the Parallel and Antiâ€Parallel Betaâ€Sheet Arrangement of Oligoâ€Peptides at Natural Abundance. ChemPhysChem, 2018, 19, 1841-1845.	1.0	13
38	Dynamics of Alanine Methyl Groups in Alanine Oligopeptides and Spider Dragline Silks with Different Packing Structures As Studied by ¹³C Solid-State NMR Relaxation. Macromolecules, 2018, 51, 6746-6756.	2.2	9
39	Unusual Dynamics of Alanine Residues in Polyalanine Regions with Staggered Packing Structure of Samia cynthia ricini Silk Fiber in Dry and Hydrated States Studied by ¹³C Solid-State NMR and Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2018, 122, 6511-6520.	1.2	8
40	Characterization of water in hydrated Bombyx mori silk fibroin fiber and films by 2H NMR relaxation and 13C solid state NMR. Acta Biomaterialia, 2017, 50, 322-333.	4.1	29
41	NMR studies of water dynamics during sol-to-gel transition of poly (N-isopropylacrylamide) in concentrated aqueous solution. Polymer, 2017, 109, 287-296.	1.8	17
42	¹³C NMR characterization of hydrated ¹³C labeled Bombyx mori silk fibroin sponges prepared using glycerin, poly(ethylene glycol diglycidyl ether) and poly(ethylene glycol) as porogens. Journal of Materials Chemistry B, 2017, 5, 2152-2160.	2.9	16
43	Hydration of Bombyx mori silk cocoon, silk sericin and silk fibroin and their interactions with water as studied by¹³C NMR and²H NMR relaxation. Journal of Materials Chemistry B, 2017, 5, 1624-1632.	2.9	30
44	Packing arrangement of¹³C selectively labeled sequence model peptides of Samia cynthia ricini silk fibroin fibers studied by solid-state NMR. Physical Chemistry Chemical Physics, 2017, 19, 13379-13386.	1.3	14
45	Refined Crystal Structure of Samia cynthia ricini Silk Fibroin Revealed by Solid-State NMR Investigations. Biomacromolecules, 2017, 18, 1965-1974.	2.6	27
46	Evaluation of endothelialization in the center part of graft using 3Âcm vascular grafts implanted in the abdominal aortae of the rat. Journal of Artificial Organs, 2017, 20, 221-229.	0.4	7
47	Quantitative Correlation between Primary Sequences and Conformations in ¹³C-Labeled Samia cynthia ricini Silk Fibroin during Strain-Induced Conformational Transition by ¹³C Solid State NMR. Macromolecules, 2017, 50, 2871-2880.	2.2	5
48	Relationship between structure and physical strength of silk fibroin nanofiber sheet depending on insolubilization treatment. Journal of Applied Polymer Science, 2017, 134, 45560.	1.3	6
49	NMR Investigation about Heterogeneous Structure and Dynamics of Recombinant Spider Silk in the Dry and Hydrated States. Macromolecules, 2017, 50, 8117-8128.	2.2	23
50	Packing Arrangements and Intersheet Interaction of Alanine Oligopeptides As Revealed by Relaxation Parameters Obtained from High-Resolution ¹³C Solid-State NMR. Journal of Physical Chemistry B, 2017, 121, 8946-8955.	1.2	6
51	Distinct solvent- and temperature-dependent packing arrangements of anti-parallel Î²-sheet polyalanines studied with solid-state¹³C NMR and MD simulation. Physical Chemistry Chemical Physics, 2017, 19, 20829-20838.	1.3	14
52	Solution NMR Structure and Conformation of Silk Fibroins Stored inBombyx moriandSamia cynthia riciniSilkworms. ACS Symposium Series, 2017, , 191-206.	0.5	1
53	Development of Silk Based Artificial Blood Vessel by Electro-spinning Method. Journal of Textile Engineering, 2017, 63, 175-179.	0.5	0
54	Structure Analysis of Bombyx mori Silk Fibroin Using NMR. , 2017, , 1-13.		1

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55	Glycerin-Induced Conformational Changes in Bombyx mori Silk Fibroin Film Monitored by 13C CP/MAS NMR and 1H DQMAS NMR. International Journal of Molecular Sciences, 2016, 17, 1517.	1.8	15
56	Parallel Î²-Sheet Structure of Alanine Tetrapeptide in the Solid State As Studied by Solid-State NMR Spectroscopy. Journal of Physical Chemistry B, 2016, 120, 8932-8941.	1.2	7
57	Sensitivity enhanced 14N/14N correlations to probe inter-beta-sheet interactions using fast magic angle spinning solid-state NMR in biological solids. Physical Chemistry Chemical Physics, 2016, 18, 22583-22589.	1.3	16
58	Effect of the surface morphology of silk fibroin scaffolds for bone regeneration. Bio-Medical Materials and Engineering, 2016, 27, 413-424.	0.4	2
59	Nanotechnology in Agriculture. ACS Symposium Series, 2016, , 233-242.	0.5	37
60	Structure and Dynamic Properties of a Ti-Binding Peptide Bound to TiO₂ Nanoparticles As Accessed by ¹H NMR Spectroscopy. Journal of Physical Chemistry B, 2016, 120, 4600-4607.	1.2	27
61	Rapid endothelialization and thin luminal layers in vascular grafts using silk fibroin. Journal of Materials Chemistry B, 2016, 4, 938-946.	2.9	14
62	1H NMR Study of the Adsorption Mechanism for Ti-Binding Peptide on TiO2 Nanoparticles. Biophysical Journal, 2015, 108, 484a.	0.2	0
63	Structural Analysis of Polymers Based on the Origin of the NMR Chemical Shift. Kobunshi Ronbunshu, 2015, 72, 653-660.	0.2	0
64	Structural Transition of Bombyx mori Liquid Silk Studied with Vibrational Circular Dichroism Spectroscopy. Analytical Sciences, 2015, 31, 763-768.	0.8	8
65	Conformation of Crystalline and Noncrystalline Domains of [3-¹³C]Ala-, [3-¹³C]Ser-, and [3-¹³C]Tyr-Bombyx mori Silk Fibroin in a Hydrated State Studied with ¹³C DD/MAS NMR. Macromolecules, 2015, 48, 8062-8069.	2.2	38
66	Intermolecular Packing in B. mori Silk Fibroin: Multinuclear NMR Study of the Model Peptide (Ala-Gly)₁₅ Defines a Heterogeneous Antiparallel Antipolar Mode of Assembly in the Silk II Form. Macromolecules, 2015, 48, 28-36.	2.2	43
67	Analysis of the Structure of Bombyx mori Silk Fibroin by NMR. Macromolecules, 2015, 48, 2345-2357.	2.2	166
68	Effect of fibroin sponge coating on in vivo performance of knitted silk small diameter vascular grafts. Organogenesis, 2015, 11, 137-151.	0.4	24
69	Structural Determination of the Tandem Repeat Motif in Samia cynthia ricini Liquid Silk by Solution NMR. Macromolecules, 2015, 48, 6574-6579.	2.2	19
70	Nano-mole scale sequential signal assignment by ¹H-detected protein solid-state NMR. Chemical Communications, 2015, 51, 15055-15058.	2.2	39
71	Stretching-Induced Conformational Transition of the Crystalline and Noncrystalline Domains of ¹³C-Labeled Bombyx mori Silk Fibroin Monitored by Solid State NMR. Macromolecules, 2015, 48, 5761-5769.	2.2	32
72	Introduction of VEGF or RGD sequences improves revascularization properties of Bombyx mori silk fibroin produced by transgenic silkworm. Journal of Materials Chemistry B, 2015, 3, 7109-7116.	2.9	42

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73	Biological Reaction to Small-Diameter Vascular Grafts Made of Silk Fibroin Implanted in the Abdominal Aortae of Rats. Annals of Vascular Surgery, 2015, 29, 341-352.	0.4	38
74	Nano-Mole Scale Side-Chain Signal Assignment by 1H-Detected Protein Solid-State NMR by Ultra-Fast Magic-Angle Spinning and Stereo-Array Isotope Labeling. PLoS ONE, 2015, 10, e0122714.	1.1	16
75	In vitro and in vivo Evaluation of Hemocompatibility of Silk Fibroin Based Artificial Vascular Grafts. International Journal of Chemistry, 2014, 6, .	0.3	5
76	Preparation of Braiding Silk Vascular Graft Coated by Silk Fibroin and Evaluation by Implantation into Dog Abdominal Aorta. Journal of Fiber Science and Technology, 2014, 70, 281-287.	0.0	2
77	Difference in the structures of alanine triâ€•and tetraâ€peptides with antiparallel Î²â€sheet assessed by Xâ€ray diffraction, solidâ€state NMR and chemical shift calculations by GIPAW. Biopolymers, 2014, 101, 13-20.	1.2	24
78	Application of Bombyx mori Silk Fibroin as a Biomaterial for Vascular Grafts. Biologically-inspired Systems, 2014, , 69-85.	0.4	3
79	NMR Study of the Interaction between Ti Binding Peptide and TiO2 Nanoparticles. Biophysical Journal, 2014, 106, 208a.	0.2	0
80	Characterization of silk sponge in the wet state using¹³C solid state NMR for development of a porous silk vascular graft with small diameter. RSC Advances, 2014, 4, 4427-4434.	1.7	21
81	Silk Fibroin. , 2014, , 1-7.		2
82	Recombinant silk fibroin incorporated cell-adhesive sequences produced by transgenic silkworm as a possible candidate for use in vascular graft. Journal of Materials Chemistry B, 2014, 2, 7375-7383.	2.9	29
83	Local Structure and Dynamics of Serine in the Heterogeneous Structure of the Crystalline Domain of Bombyx mori Silk Fibroin in Silk II Form Studied by 2D ¹³Câ€“¹³C Homonuclear Correlation NMR and Relaxation Time Observation. Macromolecules, 2014, 47, 4308-4316.	2.2	26
84	NMR Study of the Structures of Repeated Sequences, GAGXGA (X = S, Y, V), in Bombyx mori Liquid Silk. Biomacromolecules, 2014, 15, 104-112.	2.6	51
85	NMR analysis and tacticity determination of poly(lactic acid) in C5D5N. Polymer Testing, 2014, 38, 35-39.	2.3	12
86	Effect of plasma-irradiated silk fibroin in bone regeneration. Journal of Bioscience and Bioengineering, 2014, 118, 333-340.	1.1	20
87	NMR studies of thermo-responsive behavior of an amphiphilic poly(asparagine) derivative in water. Polymer, 2014, 55, 278-286.	1.8	7
88	The Silk I and Lamella Structures of (Ala-Gly)15 as the Model of Bombyx mori Silk Fibroin Studied with Solid State NMR. Biologically-inspired Systems, 2014, , 49-68.	0.4	14
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90	Bombyx mori silk fibroin scaffolds for bone regeneration studied by bone differentiation experiment. Journal of Bioscience and Bioengineering, 2013, 115, 575-578.	1.1	26

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91	Silk structure studied with nuclear magnetic resonance. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 69, 23-68.	3.9	88
92	Synthesis and Characterization of Water-Soluble Silk Peptides and Recombinant Silk Protein Containing Polyalanine, the Integrin Binding Site, and Two Glutamic Acids at Each Terminal Site as a Possible Candidate for Use in Bone Repair Materials. Biomacromolecules, 2013, 14, 3731-3741.	2.6	8
93	Elucidating silk structure using solid-state NMR. Soft Matter, 2013, 9, 11440.	1.2	65
94	Silk fibroinâ€based scaffolds for bone regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 295-302.	1.6	42
95	Observation of Silk I Conformation in Bombyx Mori Liquid Silk with NMR. Biophysical Journal, 2013, 104, 181a.	0.2	0
96	Smallâ€Diameter Silk Vascular Grafts (3 mm Diameter) with a Doubleâ€Raschel Knitted Silk Tube Coated with Silk Fibroin Sponge. Advanced Healthcare Materials, 2013, 2, 361-368.	3.9	73
97	Colored Fluorescent Silk Made by Transgenic Silkworms. Advanced Functional Materials, 2013, 23, 5232-5239.	7.8	82
98	Determination of Accurate ¹H Positions of (Ala-Gly)n as a Sequential Peptide Model of Bombyx mori Silk Fibroin before Spinning (Silk I). Macromolecules, 2013, 46, 8046-8050.	2.2	31
99	Preparation of Small-Diameter Silk Fibroin Tubular Scaffolds with Electrospinning Method. Materials Science Forum, 2013, 745-746, 1-5.	0.3	0
100	Development of silk/polyurethane small-diameter vascular graft by electrospinning. Seikei-Kakou, 2013, 25, 181-187.	0.0	6
101	From Determination of Silk Structure to Application of Silk to Vascular Graft. Journal of Fiber Science and Technology, 2013, 69, P_145-P_148.	0.0	0
102	A two-dimensional spin-diffusion NMR study on the local structure of a water-soluble model peptide for Nephila clavipes dragline silk (MaSp1) before and after spinning. Polymer Journal, 2012, 44, 913-917.	1.3	3
103	Preface to the special issue. Polymer Journal, 2012, 44, 733-733.	1.3	6
104	1H MRI study of small-diameter silk vascular grafts in water. Polymer Journal, 2012, 44, 868-875.	1.3	1
105	Structural characterization of silk-polyurethane composite material for biomaterials using solid-state NMR. Polymer Journal, 2012, 44, 802-807.	1.3	12
106	Determination of accurate 1H positions of an alanine tripeptide with anti-parallel and parallel Î²-sheet structures by high resolution 1H solid state NMR and GIPAW chemical shift calculation. Chemical Communications, 2012, 48, 11199.	2.2	25
107	Characterization of a Ca binding-amphipathic silk-like protein and peptide with the sequence (Glu)₈(Ala-Gly-Ser-Gly-Ala-Gly)₄with potential for bone repair. Soft Matter, 2012, 8, 741-748.	1.2	12
108	NMR analysis and chemical shift calculations of poly(lactic acid) dimer model compounds with different tacticities. Polymer Journal, 2012, 44, 838-844.	1.3	14

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109	¹³C solidâ€state NMR study of the ¹³Câ€labeled peptide, (E)₈GGLGGQGAG(A)₆GGAGQGGYGG as a model for the local structure of Nephila clavipes dragline silk (MaSp1) before and after spinning. Biopolymers, 2012, 97, 347-354.	1.2	13
110	Two Different Packing Arrangements of Antiparallel Polyalanine. Angewandte Chemie - International Edition, 2012, 51, 1212-1215.	7.2	44
111	Porous Silk Fibroin Film as a Transparent Carrier for Cultivated Corneal Epithelial Sheets. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 2261-2276.	1.9	63
112	Synthesis and Characterization of Novel Silk-Like Proteins Using Genetic Engineering Methods. Advanced Materials Research, 2011, 175-176, 258-265.	0.3	0
113	NMR Analysis of the Fibronectin Cell-Adhesive Sequence, Arg-Gly-Asp, in a Recombinant Silk-Like Protein and a Model Peptide. Biomacromolecules, 2011, 12, 3910-3916.	2.6	15
114	Development of Small-Diameter Vascular Grafts Based on Silk Fibroin Fibers from Bombyx mori for Vascular Regeneration. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 195-206.	1.9	62
115	Stereoregularity of Poly(lactic acid) and their Model Compounds as studied by NMR and Quantum Chemical Calculations. Macromolecules, 2011, 44, 9247-9253.	2.2	15
116	The Interaction of AÎ²(1-40) Peptide with Lipid Bilayers and Ganglioside As Studied by Multinuclear Solid-State NMR. ACS Symposium Series, 2011, , 299-316.	0.5	1
117	NMR Characterization and Product Design of Novel Silk-Based Biomaterials. ACS Symposium Series, 2011, , 281-297.	0.5	0
118	Innovative NMR Strategies for Complex Macromolecules. ACS Symposium Series, 2011, , 3-16.	0.5	5
119	Preparation of double-raschel knitted silk vascular grafts and evaluation of short-term function in a rat abdominal aorta. Journal of Artificial Organs, 2011, 14, 89-99.	0.4	76
120	Regeneration of the femoral epicondyle on calcium-binding silk scaffolds developed using transgenic silk fibroin produced by transgenic silkworm. Acta Biomaterialia, 2011, 7, 1192-1201.	4.1	38
121	Very fast magic angle spinning 1H-14N 2D solid-state NMR: Sub-micro-liter sample data collection in a few minutes. Journal of Magnetic Resonance, 2011, 208, 44-48.	1.2	125
122	Cell Shape and Matrix Production of Fibroblasts Cultured on Fibroin-organized Silk Scaffold with Type-II .BETA.-turn Structured (Ala-Gly-Ala-Gly-Ser-Gly)n Sequences. Journal of Health Science, 2010, 56, 738-744.	0.9	5
123	Molecular Dynamics Calculation on the Generation of Aggregated Structure of Poly(L-Alanine)from the Aqueous Solution. Kobunshi Ronbunshu, 2010, 67, 45-50.	0.2	0
124	Structural Change of Poly(glycolic acid) by Stretching studied with MD Simulation, 13C CP/MAS NMR and X-ray Diffraction Methods. Kobunshi Ronbunshu, 2010, 67, 57-60.	0.2	0
125	Small-diameter vascular grafts of Bombyx mori silk fibroin prepared by a combination of electrospinning and sponge coating. Materials Letters, 2010, 64, 1786-1788.	1.3	40
126	Microscopic structural analysis of fractured silk fibers from Bombyx mori and Samia cynthia ricini using 13C CP/MAS NMR with a 1 mm microcoil MAS NMR probehead. Solid State Nuclear Magnetic Resonance, 2010, 38, 27-30.	1.5	14

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127	Molecular dynamics and orientation of stretched rubber by solid-state 13C NMR. Polymer Journal, 2010, 42, 25-30.	1.3	12
128	Local conformation of serine residues in a silk model peptide, (Alaâ€“Glyâ€“Serâ€“Glyâ€“Alaâ€“Gly)5, studied with solid-state NMR:REDOR. Polymer Journal, 2010, 42, 354-356.	1.3	7
129	Mechanical Properties of Regenerated Bombyx mori Silk Fibers and Recombinant Silk Fibers Produced by Transgenic Silkworms. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 395-411.	1.9	55
130	Long-term patency of small-diameter vascular graft made from fibroin, a silk-based biodegradable material. Journal of Vascular Surgery, 2010, 51, 155-164.	0.6	197
131	NMR Study of Interactions between Silk Model Peptide and Fluorinated Alcohols for Preparation of Regenerated Silk Fiber. Macromolecules, 2010, 43, 2364-2370.	2.2	6
132	Structural Analysis of the Synthetic Peptide (Ala-Gly-Ser-Gly-Ala-Gly)₅, a Model for the Crystalline Domain of Bombyx mori Silk Fibroin, Studied with ¹³C CP/MAS NMR, REDOR, and Statistical Mechanical Calculations. Macromolecules, 2010, 43, 9434-9440.	2.2	25
133	Development of the Tissue Engineered Medical Products Based on Silk Fibroin from Bombyx mori and Transgenic Silkworm. Journal of Fiber Science and Technology, 2009, 65, P.11-P.13.	0.0	2
134	Preparation and characterization of regenerated fiber from the aqueous solution of Bombyx mori cocoon silk fibroin. Materials Chemistry and Physics, 2009, 117, 430-433.	2.0	22
135	Comparative study of silk fibroin porous scaffolds derived from salt/water and sucrose/hexafluoroisopropanol in cartilage formation. Journal of Bioscience and Bioengineering, 2009, 108, 68-75.	1.1	105
136	Development of silk-like materials based on Bombyx mori and Nephila clavipes dragline silk fibroins. Polymer, 2009, 50, 117-124.	1.8	19
137	Heterogeneous structure of poly(glycolic acid) fiber studied with differential scanning calorimeter, X-ray diffraction, solid-state NMR and molecular dynamic simulation. Polymer, 2009, 50, 6083-6090.	1.8	9
138	The interaction of amyloid AÎ²(1â€“40) with lipid bilayers and ganglioside as studied by 31P solid-state NMR. Chemistry and Physics of Lipids, 2009, 158, 54-60.	1.5	39
139	13C CP/MAS NMR study on structural heterogeneity in Bombyx mori silk fiber and their generation by stretching. Protein Science, 2009, 11, 2706-2713.	3.1	106
140	Structural Study of Silk-like Peptides Modified by the Addition of the Cell Adhesive Sequence, RGD, Using 13C CP/MAS NMR. Polymer Journal, 2009, 41, 18-19.	1.3	0
141	Detection of Poorly-Oriented Component in Uniaxially Stretched Poly(glycolic acid) Fiber Studied Using 13C Solid-State NMR. Polymer Journal, 2009, 41, 582-583.	1.3	1
142	Rheological Properties of Native Silk Fibroins from Domestic and Wild Silkworms, and Flow Analysis in Each Spinneret by a Finite Element Method. Biomacromolecules, 2009, 10, 929-935.	2.6	43
143	Structural Characterization of Silk-Based Water-Soluble Peptides (Glu)_n(Ala-Gly-Ser-Gly-Ala-Gly)₄ (n = 4â^'8) as a Mimic of Bombyx mori Silk Fibroin by ¹³C Solid-State NMR. Macromolecules, 2009, 42, 8950-8958.	2.2	19
144	Intra- and Intermolecular Effects on ¹H Chemical Shifts in a Silk Model Peptide Determined by High-Field Solid State ¹H NMR and Empirical Calculations. Journal of Physical Chemistry B, 2009, 113, 9756-9761.	1.2	20

#	Article	IF	Citations
145	Synthesis and Characterization of Cell-Adhesive Silk-Like Proteins Constructed from the Sequences of Anaphe Silk Fibroin and Fibronectin. Biomacromolecules, 2009, 10, 923-928.	2.6	23
146	Structural analysis of the Gly-rich region in spider dragline silk using stable-isotope labeled sequential model peptides and solid-state NMR. Chemical Communications, 2009, , 4176.	2.2	19
147	Micro-computerized tomographic observation of the spinning apparatus in Bombyx mori silkworms. Polymer, 2008, 49, 5665-5669.	1.8	14
148	Silklike materials constructed from sequences of Bombyx mori silk fibroin, fibronectin, and elastin. Journal of Biomedical Materials Research - Part A, 2008, 84A, 353-363.	2.1	37
149	Structural insights into the elastin mimetic (LGGVG)₆ using solidâ€state ¹³C NMR experiments and statistical analysis of the PDB. Biopolymers, 2008, 89, 668-679.	1.2	14
150	Preparation and characterization of regenerated Bombyx mori silk fibroin fiber containing recombinant cellâ€adhesive proteins; Nonwoven fiber and monofilament. Journal of Applied Polymer Science, 2008, 109, 2956-2963.	1.3	28
151	Flow analysis of aqueous solution of silk fibroin in the spinneret of Bombyx mori silkworm by combination of viscosity measurement and finite element method calculation. Polymer, 2008, 49, 952-956.	1.8	29
152	High field 17O solid-state NMR study of alanine tripeptides. Journal of Magnetic Resonance, 2008, 190, 327-332.	1.2	24
153	A Study of the Relationship between the Tensile Strength and Dynamics of As-spun and Drawn Poly(glycolic acid) Fibers. Polymer Journal, 2008, 40, 10-16.	1.3	7
154	The Influence of Ser and Tyr Residues on the Structure of Bombyx Mori Silk Fibroin Studied Using High-resolution Solid-state 13C NMR Spectroscopy and 13C Selectively Labeled Model Peptides. Polymer Journal, 2008, 40, 184-185.	1.3	6
155	Structural Analyses of Anaphe Silk Fibroin and Several Model Peptides Using ¹³C NMR and X-ray Diffraction Methods. Macromolecules, 2008, 41, 796-803.	2.2	27
156	Investigation of Structural Transition of Regenerated Silk Fibroin Aqueous Solution by Rheo-NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 4182-4186.	6.6	60
157	Synthesis and Characterization of Silklike Materials Containing the Calcium-Binding Sequence from Calbindin D9k or the Shell Nacreous Matrix Protein MSI60. Biomacromolecules, 2008, 9, 416-420.	2.6	19
158	Preparation and characterization of multilayered hydroxyapatite/silk fibroin film. Journal of Bioscience and Bioengineering, 2007, 103, 514-520.	1.1	49
159	13Câ''17O REAPDOR NMR as a Tool for Determining Secondary Structure in Polyamides. Macromolecules, 2007, 40, 1363-1365.	2.2	27
160	Lamellar Structure in Poly(Ala-Gly) Determined by Solid-State NMR and Statistical Mechanical Calculations. Journal of the American Chemical Society, 2007, 129, 5703-5709.	6.6	27
161	High-Field ¹H MAS and ¹⁵N CP-MAS NMR Studies of Alanine Tripeptides and Oligomers:â€‰ Distinction of Antiparallel and Parallel Î²-Sheet Structures and Two Crystallographically Independent Molecules. Journal of Physical Chemistry B, 2007, 111, 9172-9178.	1.2	11
162	Improving Cell-Adhesive Properties of Recombinant Bombyx mori Silk by Incorporation of Collagen or Fibronectin Derived Peptides Produced by Transgenic Silkworms. Biomacromolecules, 2007, 8, 3487-3492.	2.6	104

#	Article	IF	Citations
163	Solid-State NMR Analysis of (GA)₃S(AG)₃D(GA)₃S(AG)₃D(GA)₃S(AG)₃, a Peptide with a Lamellar Structure and a Calcium Binding Site, and Production of TS[(AG)₃D(GA)₃S]₁₆ in Escherichia coli. Macromolecules, 2007, 40, 8983-8990.	2.2	15
164	Some Observations on the Structure and Function of the Spinning Apparatus in the SilkwormBombyxmori. Biomacromolecules, 2007, 8, 175-181.	2.6	143
165	Role of Hydroxyl Side Chains inBombyxmoriSilk Sericin in Stabilizing Its Solid Structure. Macromolecules, 2007, 40, 1562-1569.	2.2	48
166	Structure of the spinning apparatus of a wild silkworm Samia cynthia ricini and molecular dynamics calculation on the structural change of the silk fibroin. Polymer, 2007, 48, 2064-2070.	1.8	28
167	Design of Silk-Like Biomaterials Inspired by Mussel-Adhesive Protein. Tissue Engineering, 2007, 13, 2941-2947.	4.9	23
168	Biosynthesis and Characterization of the Artificial Protein Consisting of Marine Mussel Adhesive Protein and Silk-Like Protein Sequences. Polymer Journal, 2007, 39, 294-295.	1.3	2
169	Characterization of Molecular Orientation of Stretched Natural Rubber by Solid-State 13C NMR. Polymer Journal, 2007, 39, 502-503.	1.3	6
170	Conformational Study of Silklike Peptides Modified by the Addition of the Calcium-Binding Sequence from the Shell Nacreous Matrix Protein MSI60 Using13C CP/MAS NMR Spectroscopy. Biomacromolecules, 2006, 7, 1996-2002.	2.6	18
171	Characterization by Raman Microspectroscopy of the Strain-Induced Conformational Transition in Fibroin Fibers from the SilkwormSamiacynthiaricini. Biomacromolecules, 2006, 7, 2512-2521.	2.6	79
172	Conformational Study of Silk-Like Peptides Containing the Calcium-Binding Sequence from Calbindin D9kUsing13C CP/MAS NMR Spectroscopy. Biomacromolecules, 2006, 7, 627-634.	2.6	10
173	Heterogeneity in the Conformation of Valine in the Elastin Mimetic (LGGVG)6as Shown by Solid-State13C NMR Spectroscopy. Biomacromolecules, 2006, 7, 3306-3310.	2.6	19
174	Solid-State NMR Analysis of a Peptide (Gly-Pro-Gly-Gly-Ala)6-Gly Derived from a Flagelliform Silk Sequence ofNephilaclavipes. Biomacromolecules, 2006, 7, 1210-1214.	2.6	47
175	Structural Analysis of Alanine Tripeptide with Antiparallel and Parallel Î²-Sheet Structures in Relation to the Analysis of Mixed Î²-Sheet Structures inSamiacynthiariciniSilk Protein Fiber Using Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2006, 128, 6231-6238.	6.6	62
176	Distinctive Influence of Two Hexafluoro Solvents on the Structural Stabilization ofBombyxmoriSilk Fibroin Protein and Its Derived Peptides:Â13C NMR and CD Studies. Biomacromolecules, 2006, 7, 18-23.	2.6	46
177	Determination of Structures of Silk Fibroins from Silkworms and Spiders using Solid-state NMR. Kobunshi Ronbunshu, 2006, 63, 707-719.	0.2	4
178	Development of MicroMAS NMR Probehead for Mass-limited Solid-state Samples. Chemistry Letters, 2006, 35, 426-427.	0.7	19
179	Binding of amyloid Î²-peptide to ganglioside micelles is dependent on histidine-13. Biochemical Journal, 2006, 397, 483-490.	1.7	90
180	Deposition of bone-like apatite on modified silk fibroin films from simulated body fluid. Journal of Applied Polymer Science, 2006, 99, 2822-2830.	1.3	37

#	Article	IF	Citations
181	Biodegradation of Multilayer Silk Fibroin and Hydroxyapatite Composite Material. Key Engineering Materials, 2006, 309-311, 1169-1172.	0.4	5
182	Native Structure and Degradation Pattern of Silk Sericin Studied by13C NMR Spectroscopy. Macromolecules, 2006, 39, 6-8.	2.2	42
183	Orientation of the Antimicrobial Peptide, Cecropin Aâ€“Magainin 2 Hybrid, in a Lipid Bilayer Studied by 15N Solid-State NMR. Polymer Journal, 2005, 37, 229-233.	1.3	0
184	Structural Characterization of Drawn and Annealed Poly(trimethylene terephthalate) Fibers. Polymer Journal, 2005, 37, 214-220.	1.3	4
185	Evidence from13C solid-state NMR spectroscopy for a lamella structure in an alanine-glycine copolypeptide: A model for the crystalline domain ofBombyx morisilk fiber. Protein Science, 2005, 14, 2654-2657.	3.1	35
186	Design, Expression and Solid-State NMR Characterization of Silk-Like Materials Constructed from Sequences of Spider Silk, Samia cynthia ricini and Bombyx mori Silk Fibroins. Journal of Biochemistry, 2005, 137, 721-729.	0.9	32
187	Possible Implications of Serine and Tyrosine Residues and Intermolecular Interactions on the Appearance of Silk I Structure ofBombyxmoriSilk Fibroin-Derived Synthetic Peptides:Â High-Resolution13C Cross-Polarization/Magic-Angle Spinning NMR Study. Biomacromolecules, 2005, 6, 468-474.	2.6	70
188	Structure of Model Peptides Based onNephilaclavipesDragline Silk Spidroin (MaSp1) Studied by13C Cross Polarization/Magic Angle Spinning NMR. Biomacromolecules, 2005, 6, 3220-3226.	2.6	25
189	13C Solid-State NMR Study of Structural Heterogeneity in Peptides Containing Both Polyalanine and Repeated GGA Sequences as a Local Structural Model ofNephilaclavipesDragline Silk (Spidroin 1). Macromolecules, 2005, 38, 3356-3363.	2.2	31
190	Structural Determination of an Elastin-Mimetic Model Peptide, (Val-Pro-Gly-Val-Gly)6, Studied by13C CP/MAS NMR Chemical Shifts, Two-Dimensional off Magic Angle Spinning Spin-Diffusion NMR, Rotational Echo Double Resonance, and Statistical Distribution of Torsion Angles from Protein Data Bank. Macromolecules, 2005, 38, 6038-6047.	2.2	37
191	Refinement of Repeated Î²-turn Structure for Silk I Conformation ofBombyx moriSilk Fibroin Using13C Solid-State NMR and X-ray Diffraction Methods. Macromolecules, 2005, 38, 7397-7403.	2.2	89
192	Design, Expression and Characterization of Collagen-Like Proteins Based on the Cell Adhesive and Crosslinking Sequences Derived from Native Collagens. Journal of Biochemistry, 2004, 136, 643-649.	0.9	31
193	Production and characterization of a silk-like hybrid protein, based on the polyalanine region of Samia cynthia ricini silk fibroin and a cell adhesive region derived from fibronectin. Biomaterials, 2004, 25, 617-624.	5.7	57
194	Raman study of poly(alanine-glycine)-based peptides containing tyrosine, valine, and serine as model for the semicrystalline domains ofBombyx mori silk fibroin. Biopolymers, 2004, 75, 314-324.	1.2	39
195	Structure and Structural Changes of the Silk Fibroin fromSamia cynthia ricini Using Nuclear Magnetic Resonance Spectroscopy. Macromolecular Bioscience, 2004, 4, 175-185.	2.1	27
196	Structural role of tyrosine in Bombyx mori silk fibroin, studied by solid-state NMR and molecular mechanics on a model peptide prepared as silk I and II. Magnetic Resonance in Chemistry, 2004, 42, 258-266.	1.1	70
197	Structures of Bombyx mori and Samia cynthia Ricini Silk Fibroins Studied with Solid-State NMR. ChemInform, 2004, 35, no.	0.1	0
198	Structure of the Model Peptides ofBombyxmoriSilk-Elastin Like Protein Studied with Solid State NMR. Biomacromolecules, 2004, 5, 744-750.	2.6	14

#	Article	IF	Citations
199	Longer Range Sequence Analysis of Four-Component Copolyester Using NMR. Macromolecules, 2004, 37, 2163-2170.	2.2	5
200	Relationship between Sequence Distribution and Thermal Properties of the Transesterification Product between Poly(ethylene terephthalate) and Poly(butylene terephthalate). Macromolecules, 2004, 37, 4651-4657.	2.2	16
201	Spectroscopic Characterization of Heterogeneous Structure ofSamiacynthiariciniSilk Fibroin Induced by Stretching and Molecular Dynamics Simulation. Macromolecules, 2004, 37, 3497-3504.	2.2	26
202	Structures ofBombyxmoriandSamiacynthiariciniSilk Fibroins Studied with Solid-State NMR. Biomacromolecules, 2004, 5, 680-688.	2.6	57
203	Study of Protein Conformation and Orientation in Silkworm and Spider Silk Fibers Using Raman Microspectroscopy. Biomacromolecules, 2004, 5, 2247-2257.	2.6	285
204	Structural Analysis ofBombyx moriSilk Fibroin Peptides with Formic Acid Treatment Using High-Resolution Solid-State13C NMR Spectroscopy. Biomacromolecules, 2004, 5, 1763-1769.	2.6	37
205	Structure of Characteristic Sequences in Nephila clavipes Dragline Silk (MaSp1) Studied with 13C Solid State NMR. Polymer Journal, 2004, 36, 999-1003.	1.3	14
206	Determination of the torsion angles of alanine and glycine residues of model compounds of spider silk (AGG)(10) using solid-state NMR methods. Journal of Biomolecular NMR, 2003, 25, 91-103.	1.6	55
207	Production of interferon-? by fibroblast cells on membranes prepared with RGD-containing peptides. Journal of Biomedical Materials Research Part B, 2003, 65A, 369-378.	3.0	20
208	Structural characterization and artificial fiber formation ofBombyx mori silk fibroin in hexafluoro-iso-propanol solvent system. Biopolymers, 2003, 69, 253-259.	1.2	124
209	Vibrational13C-cross-polarization/magic angle spinning NMR spectroscopic and thermal characterization of poly(alanine-glycine) as model for silk IBombyx mori fibroin. Biopolymers, 2003, 72, 329-338.	1.2	19
210	Structure and dynamics in the amorphous region of natural rubber observed under uniaxial deformation monitored with solid-state 13C NMR. Polymer, 2003, 44, 7539-7544.	1.8	23
211	Preparation of non-woven nanofibers of Bombyx mori silk, Samia cynthia ricini silk and recombinant hybrid silk with electrospinning method. Polymer, 2003, 44, 841-846.	1.8	251
212	Sequence analysis of poly(ethylene/1,4-cyclohexanedimethylene terephthalate) copolymer using 1H and 13C NMR. Polymer, 2003, 44, 4681-4687.	1.8	21
213	Determination of distance of intra-molecular hydrogen bonding in (Alaâ€“Gly)15 with silk I form after removal of the effect of MAS frequency in REDOR experiment. Journal of Magnetic Resonance, 2003, 160, 91-96.	1.2	13
214	An application of the XiX decoupling for solid state 13C NMR with mobile samples. Journal of Magnetic Resonance, 2003, 165, 180-183.	1.2	2
215	Tightly winding structure of sequential model peptide for repeated helical region in Samia cynthia ricini silk fibroin studied with solid-state NMR. Protein Science, 2003, 12, 666-671.	3.1	41
216	Sequence Analysis of Technora (Copolyamide of Terephthaloyl Chloride,p-Phenylenediamine, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	15

#	Article	IF	Citations
217	Structure Determination of a Peptide Model of the Repeated Helical Domain inSamiacynthiariciniSilk Fibroin before Spinning by a Combination of Advanced Solid-State NMR Methods. Journal of the American Chemical Society, 2003, 125, 7230-7237.	6.6	73
218	Molecular Dynamics Simulation of Conformational Change of Poly(Ala-Gly) from Silk I to Silk Î™Î™ in Relation to Fiber Formation Mechanism ofBombyxmoriSilk Fibroin. Macromolecules, 2003, 36, 6766-6772.	2.2	51
219	Determining Dihedral Angles and Local Structure in Silk Peptide by13Câ^'2H REDOR. Journal of the American Chemical Society, 2003, 125, 7510-7511.	6.6	25
220	Synthesis and Characterization of Chimeric Silkworm Silk. Biomacromolecules, 2003, 4, 815-820.	2.6	37
221	Synthesis and Structural Characterization of Silk-Like Materials Incorporated with an Elastic Motif. Journal of Biochemistry, 2003, 133, 147-154.	0.9	22
222	Sequence Analysis of Polyarylate (U-Polymer) and Its Polyestercarbonate Using 1H and 13C NMR. Polymer Journal, 2003, 35, 740-747.	1.3	3
223	Conformational Characterization of (Val-Pro-Gly-Val-Gly)6 with 13C Solid State NMR. Polymer Journal, 2003, 35, 293-296.	1.3	13
224	1H NMR Analysis of Aromatic Polyamide in N-methyl-2-pyroridone Solution. Kobunshi Ronbunshu, 2003, 60, 186-191.	0.2	0
225	Direct Observations of High Resolution 1H NMR in Liquid Phase for Peptides bound to Bicelles. Kobunshi Ronbunshu, 2003, 60, 199-202.	0.2	2
226	Structure of Bombyx mori Silk Fibroin before Spinning in Silkworm. ACS Symposium Series, 2002, , 71-82.	0.5	5
227	Design, Expression, and Structural Characterization of Hybrid Proteins of Samia cynthia ricini and Bombyx mori Silk Fibroins. Polymer Journal, 2002, 34, 936-943.	1.3	12
228	Dynamics of silk fibroin studied with NMR spectroscopy. Annual Reports on NMR Spectroscopy, 2002, 46, 101-149.	0.7	11
229	Artificial Spinning and Characterization of Silk Fiber fromBombyxmoriSilk Fibroin in Hexafluoroacetone Hydrate. Macromolecules, 2002, 35, 6-9.	2.2	158
230	The Structural Characteristics ofBombyx moriSilk Fibroin before Spinning As Studied with Molecular Dynamics Simulation. Macromolecules, 2002, 35, 8831-8838.	2.2	43
231	Triad Sequence Analysis of Poly(ethylene/butylene terephthalate) Copolymer Using1H NMR. Macromolecules, 2002, 35, 4664-4668.	2.2	37
232	High-Resolution13C CP/MAS NMR Study on Structure and Structural Transition ofAntheraeapernyiSilk Fibroin Containing Poly(l-alanine) and Gly-Rich Regions. Macromolecules, 2002, 35, 2393-2400.	2.2	53
233	Comparative Structure Analysis of Tyrosine and Valine Residues in Unprocessed Silk Fibroin (Silk I) and in the Processed Silk Fiber (Silk II) from Bombyx mori Using Solid-State 13C,15N, and 2H NMR. Biochemistry, 2002, 41, 4415-4424.	1.2	98
234	Heterogeneous Structure of Silk Fibers fromBombyxmoriResolved by13C Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2002, 124, 8794-8795.	6.6	215

#	Article	IF	Citations
235	Determination of the Torsion Angles of Alanine and Glycine Residues of Bombyx Mori Silk Fibroin and the Model Peptides in the Silk I and Silk II Forms Using 2D Spin Diffusion Solid-State NMR under Off Magic Angle Spinning. Journal of Physical Chemistry B, 2002, 106, 9434-9439.	1.2	19
236	The role of irregular unit, GAAS, on the secondary structure ofBombyx morisilk fibroin studied with13C CP/MAS NMR and wide-angle X-ray scattering. Protein Science, 2002, 11, 1873-1877.	3.1	59
237	Heterogeneous exchange behavior ofSamia cynthia ricinisilk fibroin during helix-coil transition studied with13C NMR. FEBS Letters, 2002, 529, 188-192.	1.3	32
238	Determination of intermolecular distance for a model peptide ofBombyx mori silk fibroin, GAGAG, with rotational echo double resonance. Biopolymers, 2002, 64, 80-85.	1.2	14
239	Solution structure of sialyl Lewis X mimics studied by two-dimensional NMR. Journal of Molecular Structure, 2002, 602-603, 215-222.	1.8	1
240	Change in the structure of poly(tetramethylene succinate) under tensile stress monitored with solid state 13 C NMR. Polymer, 2002, 43, 1447-1451.	1.8	15
241	Production of interferon-beta by fibroblast cells on membranes prepared by extracellular matrix proteins. Cytotechnology, 2002, 39, 131-137.	0.7	12
242	The Summer Seminar on Fiber Science and Technology in 2002. Journal of Fiber Science and Technology, 2002, 58, P.67-P.67.	0.0	0
243	A repeated Î²-turn structure in Poly(Ala-Gly) as a model for silk I of Bombyx mori silk fibroin studied with two-dimensional spin-diffusion NMR under off magic angle spinning and rotational echo double resonance11Edited by M. F. Summers. Journal of Molecular Biology, 2001, 306, 291-305.	2.0	230
244	Interaction of mastoparan with membranes studied by 1 H-NMR spectroscopy in detergent micelles and by solid-state 2 H-NMR and 15 N-NMR spectroscopy in oriented lipid bilayers. FEBS Journal, 2001, 268, 302-309.	0.2	56
245	Structure of Silk studied with NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 2001, 39, 301-352.	3.9	73
246	Characteristics of photoluminescence from ruthenium polypyridyl complexes incorporated into silk. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 143, 147-151.	2.0	3
247	Raman spectroscopic characterization ofBombyx mori silk fibroin: Raman spectrum of Silk I. Journal of Raman Spectroscopy, 2001, 32, 103-107.	1.2	134
248	Structure ofBombyx mori silk fibroin before spinning in solid state studied with wide angle x-ray scattering and13C cross-polarization/magic angle spinning NMR. Biopolymers, 2001, 58, 521-525.	1.2	86
249	Pressure-dependent changes in the structure of the melittin alpha-helix determined by NMR. Journal of Biomolecular NMR, 2001, 19, 115-124.	1.6	29
250	Adhesion of N-Methacryloyl-Ï‰-Amino Acid Primers to Collagen Analyzed by 13C NMR. Journal of Dental Research, 2001, 80, 855-859.	2.5	31
251	Structure determination of [Arg8]vasopressin methylenedithioether in dimethylsulfoxide using NMR. FEBS Journal, 2000, 267, 4504-4510.	0.2	7
252	Carbon-13 solid state NMR study on uniaxially oriented poly(l-lactic acid) films. Polymer, 2000, 41, 859-866.	1.8	12

#	Article	IF	Citations
253	Solid-state NMR determination of the secondary structure of Samia cynthia ricini silk. Nature, 2000, 405, 1077-1079.	13.7	186
254	Structure and dynamics of photosynthetic membrane-bound proteins in Rhodobacter Sphaeroides, studied with solid-state NMR spectroscopy. Photosynthesis Research, 2000, 63, 259-267.	1.6	13
255	Production of interferon-beta in a culture of fibroblast cells on some polymeric films. Cytotechnology, 2000, 34, 165-173.	0.7	22
256	Morphologies of PC12 Cells Cultured on Some Polymeric Films - Relationship between Cell Growth and Surface Physical Properties.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 2000, 2000, 257-265.	0.1	3
257	Bond Strength of Resin to Acid-etched Dentin Studied by 13C NMR: Interaction between N-methacryloyl-Ï‰-Amino Acid Primer and Dentinal Collagen. Journal of Dental Research, 2000, 79, 806-811.	2.5	29
258	An advantage for use of isotope labeling and NMR chemical shifts to analyze the structure of four homologous IgG-binding domains of staphylococcal protein A. Journal of Proteomics, 2000, 42, 35-47.	2.4	11
259	Biosynthesis of L-alanine, a major amino acid of fibroin in Samia cynthia ricini. Insect Biochemistry and Molecular Biology, 2000, 30, 225-232.	1.2	19
260	Carbon-13 solid-state n.m.r. study of 13C-enriched human hair keratin. Polymer, 1999, 40, 2139-2144.	1.8	13
261	Spectroscopic investigation of tertiary fold of staphylococcal protein A to explore its engineering application. Biomaterials, 1999, 20, 647-654.	5.7	14
262	Solid phase synthesis and biological activities of [Arg8]-vasopressin methylenedithioether. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 1767-1772.	1.0	13
263	A 13C NMR study on the structural change of silk fibroin from Samia cynthia ricini. Chemical Physics Letters, 1999, 311, 362-366.	1.2	25
264	Enhanced CEA production associated with aspirin in a culture of CW-2 cells on some polymeric films. Cytotechnology, 1999, 31, 233-242.	0.7	14
265	C alpha and C beta carbon-13 chemical shifts in proteins from an empirical database. Journal of Biomolecular NMR, 1999, 13, 199-211.	1.6	160
266	A light-harvesting antenna protein retains its folded conformation in the absence of protein-lipid and protein-pigment interactions. , 1999, 49, 361-372.		18
267	Use of 13C conformation-dependent chemical shifts to elucidate the local structure of a large protein with homologous domains in solution and solid state. Journal of Proteomics, 1999, 38, 203-208.	2.4	12
268	Structural analysis of silk with 13C NMR chemical shift contour plots. International Journal of Biological Macromolecules, 1999, 24, 167-171.	3.6	97
269	Orientational behavior of phospholipid membranes with mastoparan studied by 31 P solid state NMR. FEBS Letters, 1999, 455, 228-232.	1.3	17
270	Structure of Alanine and Glycine Residues ofSamiacynthiariciniSilk Fibers Studied with Solid-State15N and13C NMR. Macromolecules, 1999, 32, 4940-4946.	2.2	84

#	Article	IF	Citations
271	Hydrogen-Bonding Structure of Serine Side Chains inBombyx moriandSamia cynthia riciniSilk Fibroin Determined by Solid-State2H NMR. Macromolecules, 1999, 32, 7166-7171.	2.2	46
272	Dynamics of the Tyrosine Side Chain inBombyxmoriandSamiacynthiariciniSilk Fibroin Studied by Solid State2H NMR. Macromolecules, 1999, 32, 8491-8495.	2.2	32
273	Structure and dynamics of silk fibroin studied with ¹³C, ¹⁵N and ²H solid state NMR. Macromolecular Symposia, 1999, 143, 1-10.	0.4	2
274	Use of Information on NMR Chemical Shift to Structural Analysis of Protein.. Seibutsu Butsuri, 1999, 39, 319-321.	0.0	0
275	The structure of the melittin tetramer at different temperatures. An NOE-based calculation with chemical shift refinement. FEBS Journal, 1998, 257, 479-487.	0.2	43
276	Adhesion mechanisms of resin to etched dentin primed withN-methacryloyl glycine studied by13C-NMR. , 1998, 40, 458-463.		25
277	Structure of uniaxially aligned 13C labeled silk fibroin fibers with solid state 13C-NMR. Journal of Molecular Structure, 1998, 441, 155-163.	1.8	17
278	Determination of the mutual orientation of the 15N and 13C NMR chemical shift tensors of 13-15N double labeled model peptides for silk fibroin from the dipolar-coupled powder patterns. Journal of Molecular Structure, 1998, 446, 179-190.	1.8	11
279	Carbon-13 n.m.r. studies of keratin intermediate filament of human hair. Polymer, 1998, 39, 1001-1004.	1.8	6
280	Structural change of keratin protein in human hair by permanent waving treatment1This work was presented at the 44th Annual Meeting of the Society of Polymer Science, Japan; 1996, Nagoya, Japan.1. Polymer, 1998, 39, 3835-3840.	1.8	60
281	Polyolefins. Studies in Physical and Theoretical Chemistry, 1998, , 415-444.	0.0	3
282	Structure ofBombyx moriSilk Fibroin Based on Solid-State NMR Orientational Constraints and Fiber Diffraction Unit Cell Parameters. Journal of the American Chemical Society, 1998, 120, 1300-1308.	6.6	99
283	Oriented Fibers and Polymers. Studies in Physical and Theoretical Chemistry, 1998, 84, 307-326.	0.0	2
284	Polyamides. Studies in Physical and Theoretical Chemistry, 1998, , 445-468.	0.0	0
285	Poly(ethylene terephthalate). Studies in Physical and Theoretical Chemistry, 1998, 84, 491-507.	0.0	0
286	pH Dependence of the Coiled-Coil Structure of Keratin Intermediate Filament in Human Hair by 13C NMR Spectroscopy and the Mechanism of Its Disruption. Polymer Journal, 1998, 30, 125-132.	1.3	8
287	Protein Chemical Shifts. , 1997, 60, 53-70.		21
288	Structural Analysis of Oriented Polymers by Solid-state NMR. Annual Reports on NMR Spectroscopy, 1997, 34, 301-346.	0.7	6

#	Article	IF	Citations
289	2H-Labeling of Silk Fibroin Fibers and Their Structural Characterization by Solid-State2H NMR. Macromolecules, 1997, 30, 2429-2435.	2.2	44
290	Effects ofN-methacryloyl-?-amino acid primer pretreatment on the bond strength of the resin to acid-etched dentin. , 1997, 37, 261-266.		11
291	NMR study of silk I structure ofBombyx mori silk fibroin with15N- and13C-NMR chemical shift contour plots. , 1997, 41, 193-203.		91
292	High Resolution Solid State 13C NMR Spectroscopy of Polypropylene with Very High Syndiospecificity. Polymer Journal, 1996, 28, 24-29.	1.3	21
293	The effects of pH of N-methacryloyl glycine primer on bond strength to acid-etched dentin. , 1996, 31, 379-384.		20
294	Design and synthesis of C-linked fucosides as inhibitors of E-selectin. Bioorganic and Medicinal Chemistry, 1996, 4, 1149-1165.	1.4	34
295	Structural analysis of uniaxially oriented 13C-labelled poly(ethylene terephthalate) filsm studied with solid-state 13C nuclear magnetic resonance spectroscopy. Polymer, 1996, 37, 1965-1973.	1.8	22
296	Conformations of Synthetic Model Peptides for Plasmodium falciparum Circumsporozoite Protein in Me2SO by 1H NMR and Distance Geometry Calculations. Polymer Journal, 1995, 27, 347-360.	1.3	2
297	Effects of a structural change in collagen upon binding to conditioned dentin studied by13C NMR. Journal of Biomedical Materials Research Part B, 1995, 29, 107-111.	3.0	21
298	The relationship between amide proton chemical shifts and secondary structure in proteins. Journal of Biomolecular NMR, 1995, 6, 227-36.	1.6	119
299	Application of 1H NMR chemical shifts to measure the quality of protein structures. Journal of Molecular Biology, 1995, 247, 541-546.	2.0	30
300	Structural analyses of poly(m-xylene-Î±,Î±â€²-diyladipamide) and nylon 66 by 15N solid state NMR. Macromolecular Chemistry and Physics, 1994, 195, 1423-1431.	1.1	7
301	Structural analysis of highly oriented poly(p-phenylene-terephthalamide) by 15N solid-state nuclear magnetic resonance. Solid State Nuclear Magnetic Resonance, 1994, 3, 209-218.	1.5	18
302	13C n.m.r. sequence analysis of ethylene-Î±-methylstyrene copolymers. Polymer, 1994, 35, 2523-2527.	1.8	2
303	13C NMR Assignments of Polyolefines and Olefine Copolymers Based on the 13C NMR Chemical Shift Calculations and 2D INADEQUATE NMR. Annual Reports on NMR Spectroscopy, 1994, 29, 325-404.	0.7	6
304	Activation Energy for Permeation of Phosphonium Cations through Phospholipid Bilayer Membrane. Biochemistry, 1994, 33, 4312-4318.	1.2	43
305	Structural Analysis of Polyamide Fibers by Solid State 15N NMR.. Kobunshi Ronbunshu, 1994, 51, 47-51.	0.2	4
306	Structure Analysis of Proteins by a Combination of Distance Geometry Calculation and 1H NMR Chemical Shift Calculation.. Kobunshi Ronbunshu, 1994, 51, 409-413.	0.2	5

#	Article	IF	Citations
307	Theory of Structural Analysis of Oriented Polymers by Solid State 15N NMR.. Kobunshi Ronbunshu, 1994, 51, 43-46.	0.2	4
308	Special Issue on Recent Advances in Coordination Polymerization of Olefins. 13C NMR Spectral Analysis of Ethylene-Propylene-1-Butene Terpolymer.. Kobunshi Ronbunshu, 1994, 51, 676-684.	0.2	0
309	Determination of the Structure of [1-13C]Glycine-[15N]Alanine Double LabeledBombyx moriSilk Fibroin Fibers Using Solid State15N NMR. Chemistry Letters, 1994, 23, 2249-2252.	0.7	15
310	Structure of Polyamide Fibers in the Non-Crystalline Domain Studied by 15N Solid State NMR. Polymer Journal, 1994, 26, 229-233.	1.3	9
311	Structure of Bombyx mori Silk Fibroin Studied by REDOR NMR Spectroscopy. Polymer Journal, 1994, 26, 1405-1408.	1.3	19
312	A Study on the Hydration of Bombyx mori Silk Fibroin by Nuclear Magnetic Resonance Spectroscopy.. Journal of Fiber Science and Technology, 1994, 50, 498-504.	0.0	4
313	Empirical Comparisons of Models for Chemical-Shift Calculation in Proteins. Journal of Magnetic Resonance Series B, 1993, 101, 63-71.	1.6	138
314	A method for studying the structure of uniaxially aligned biopolymers using solid state15N-nmr: Application toBombyx mori silk fibroin fibers. Biopolymers, 1993, 33, 847-861.	1.2	80
315	In vitro production ofBombyx mori silk fibroin by organ culture of the posterior silk glands; isotope labeling and fluorination of the silk fibroin. Biotechnology and Bioengineering, 1993, 41, 245-252.	1.7	22
316	13C n.m.r. determination of the isotacticity of the propylene homopolymer part in ethylene-propylene block copolymers. Polymer, 1993, 34, 3129-3131.	1.8	7
317	NMR Characterization of Silk Proteins. ACS Symposium Series, 1993, , 148-154.	0.5	3
318	Structural analysis of uniaxially aligned polymers using solid-state nitrogen-15 NMR. Macromolecules, 1993, 26, 6660-6663.	2.2	29
319	1H NMR Chemical Shift Calculation of .ALPHA.-CH and NH Protons in Basic Pancreatic Trypsin Inhibitor.. Kobunshi Ronbunshu, 1992, 49, 281-287.	0.2	2
320	Photoluminescent copolymerâ€pendant Ru(BPY)₃2+ grafted onto nonâ€woven silk fabric and its application to oxygen sensor. Makromolekulare Chemie Macromolecular Symposia, 1992, 59, 183-197.	0.6	10
321	Carbon-13 NMR spectral assignments of regioirregular polypropylene determined from two-dimensional INADEQUATE spectra and chemical shift calculations. Macromolecules, 1992, 25, 4876-4881.	2.2	51
322	Carbon-13 NMR chemical shift assignments of comonomer sequences in a 1-butene-propylene copolymer. Macromolecules, 1992, 25, 155-160.	2.2	13
323	The application of 1 H NMR chemical shift calculations to diastereotopic groups in proteins. FEBS Letters, 1992, 302, 185-188.	1.3	15
324	1H pulsed NMR study of bombyx mori silk fibroin: Dynamics of fibroin and of absorbed water. Journal of Polymer Science, Part B: Polymer Physics, 1992, 30, 693-699.	2.4	41

#	Article	IF	Citations
325	Characterization of low-temperatureplasma treated silk fibroin fabrics by ESCA and the use of the fabrics as an enzyme-immobilization support. Biomaterials, 1992, 13, 276-280.	5.7	47
326	Determination of the magnetic anisotropy of the oxygen atom and 1H chemical-shift calculation of proteins. Journal of Magnetic Resonance, 1992, 98, 646-653.	0.5	5
327	A method for the calculation of protein Î±-CH chemical shifts. Journal of Biomolecular NMR, 1992, 2, 83-98.	1.6	87
328	2D-INADEQUATE 13C nuclear magnetic resonance assignment of regioirregular poly(1-butene). Polymer, 1992, 33, 650-654.	1.8	9
329	Immobilization of glucose oxidase on nonwoven fabrics with bombyx mori silk fibroin gel. Journal of Applied Polymer Science, 1992, 46, 49-53.	1.3	39
330	Porous membrane of Bombyx mori silk fibroin: structure characterization, physical properties and application to glucose oxidase immobilization. Journal of Membrane Science, 1991, 59, 39-52.	4.1	76
331	Carbon-13 NMR spectral assignment of five polyolefins determined from the chemical shift calculation and the polymerization mechanism. Macromolecules, 1991, 24, 2334-2340.	2.2	155
332	NMR imaging of diffusion of small organic molecules in silk fibroin gel. Macromolecules, 1991, 24, 620-622.	2.2	17
333	Luminescence from excited tris(2,2â€²-bipyridine)-ruthenium(II) incorporated into a silk fibroin membrane. Journal of Photochemistry and Photobiology A: Chemistry, 1991, 61, 373-380.	2.0	13
334	Membrane potential of Bombyx mori silk fibroin membrane induced by an immobilized enzyme reaction. Bioelectrochemistry, 1991, 26, 167-175.	1.0	13
335	Membrane potential of Bombyx mori silk fibroin membrane induced by an immobilized enzyme reaction. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 321, 167-175.	0.3	0
336	Calculation of chemical shifts of protons on alpha carbons in proteins. Journal of Magnetic Resonance, 1991, 94, 557-562.	0.5	12
337	Metabolic flux and incorporation of [2-13C]glycine into silk fibroin studied by 13C NMR in vivo and in vitro. Insect Biochemistry, 1991, 21, 743-748.	1.8	11
338	Ring-current effects and magnetic anisotropy effects of carbonyl groups on the Î±-CH proton chemical shifts of the basic pancreatic trypsin inhibitor and tendamistat. Journal of Magnetic Resonance, 1991, 93, 355-360.	0.5	10
339	13C and 31P NMR analyses of the cultured posterior silk gland of the silkworm, Bombyx mori: Silk fibroin production and the effect of sorbitol-6-phosphate. Insect Biochemistry, 1990, 20, 261-266.	1.8	10
340	An ESR study of spin-labeled silk fibroin membranes and spin-labeled glucose oxidase immobilized in silk fibroin membranes. Biotechnology and Bioengineering, 1990, 35, 511-517.	1.7	34
341	Preparation and characterization of silk fibroin powder and its application to enzyme immobilization. Journal of Applied Polymer Science, 1990, 40, 127-134.	1.3	91
342	The structure of Bombyx mori silk fibroin membrane swollen by water studied with ESR, 13C-NMR, and FT-IR spectroscopies. Journal of Applied Polymer Science, 1990, 40, 1745-1756.	1.3	92

#	Article	IF	Citations
343	Primary and secondary structures of synthetic polymer systems as studied by 13C N M R spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy, 1990, 22, 349-400.	3.9	75
344	Enzymatic properties of lipase-immobilized silk fibroin membrane and its membrane potential with the enzyme reaction.. Journal of Fiber Science and Technology, 1990, 46, 391-396.	0.0	14
345	Dynamic features of side chains in tyrosine and serine residues of some polypeptides and fibroins in the solid as studied by high-resolution solid-state carbon-13 NMR spectroscopy. Macromolecules, 1990, 23, 83-88.	2.2	56
346	Solvent- and mechanical-treatment-induced conformational transition of silk fibroins studies by high-resolution solid-state carbon-13 NMR spectroscopy. Macromolecules, 1990, 23, 88-94.	2.2	201
347	Dissolution mechanism of Bombyx mori silk fibroin in a CaCl2 aqueous solution studied with 13C, 1H and 43Ca NMR spectroscopies.. Journal of Fiber Science and Technology, 1989, 45, 252-257.	0.0	6
348	Immobilization of biocatalysts with bombyx mori silk fibroin by several kinds of physical treatment and its application to glucose sensors. Biosensors, 1989, 4, 361-372.	2.0	95
349	Adsorption behavior of a silane coupling agent onto a colloidal silica surface studied by 29Si NMR spectroscopy. Journal of Colloid and Interface Science, 1989, 129, 113-119.	5.0	45
350	Immobilization of glucose oxidase withBombyx mori silk fibroin by only stretching treatment and its application to glucose sensor. Biotechnology and Bioengineering, 1989, 33, 598-603.	1.7	126
351	A nuclear magnetic resonance study on aggregation of an azo dye, Orange II, in aqueous solution. Journal of Colloid and Interface Science, 1989, 130, 184-189.	5.0	23
352	Immobilization of peroxidase with a Bombyx mori silk fibroin membrane and its application to biophotosensors. Journal of Biotechnology, 1989, 10, 113-119.	1.9	59
353	Preparation and Properties of Covalently Immobilized Alkaline Phosphatase onBombyx MoriSilk Fibroin Fiber. Polymer-Plastics Technology and Engineering, 1989, 28, 453-469.	1.9	34
354	A Study of Dielectric Solvent Effect on Silicon-29 NMR Chemical Shifts of Some Chlorosilanes. Bulletin of the Chemical Society of Japan, 1989, 62, 1233-1236.	2.0	9
355	Water sorption, membrane potentials, and ion permeability of styrene-grafted Bombyx mori silk fibroin membrane. Journal of Applied Polymer Science, 1988, 36, 535-543.	1.3	16
356	13C nuclear magnetic resonance spectral analysis of stereosequences in ethylene-propylene copolymer. Polymer, 1988, 29, 2208-2215.	1.8	5
357	Condensation behavior of a sulane coupling agent in the presence of colloidal silica studied by 29Si and 13C NMR. Journal of Colloid and Interface Science, 1988, 124, 14-21.	5.0	27
358	Heptad configurational analysis of 13C n.m.r. spectra in highly isotactic polypropylene. Polymer, 1988, 29, 138-143.	1.8	74
359	13C n.m.r. spectral assignments and hexad comonomer sequence determination in stereoregular ethylene-propylene copolymer. Polymer, 1988, 29, 1848-1857.	1.8	21
360	13C and 31P NMR studies on sugar metabolism in Bombyx mori and Philosamia cynthia ricini larvae. Insect Biochemistry, 1988, 18, 531-538.	1.8	30

#	Article	IF	Citations
361	NMR of silk fibroin. 8. Carbon-13 NMR analysis of the conformation and the conformational transition of Philosamia cynthia ricini silk fibroin protein on the basis of Bixon-Scheraga-Lifson theory. Macromolecules, 1988, 21, 644-648.	2.2	57
362	Chain-end structures in polypropylene prepared with .delta.-TiCl3/Et2AlCl catalytic system in the presence of hydrogen. Macromolecules, 1988, 21, 2675-2684.	2.2	46
363	NMR of silk fibroin. 9. Sequence and conformation analyses of the silk fibroins from Bombyx mori and Philosamia cynthia ricini by 15N NMR spectroscopy. Macromolecules, 1988, 21, 2038-2041.	2.2	42
364	15N and 13C NMR chemical shift calculations for the sequence analysis of Bombyx mori silk fibroin protein with FPT INDO method. Computational and Theoretical Chemistry, 1988, 168, 135-139.	1.5	4
365	Pentad Assignments of Methine Carbon Resonances in Stereoregular Ethyleneâ€“Propylene Copolymer Based on Two-Dimensional INADEQUATE NMR Spectrum. Polymer Journal, 1988, 20, 895-902.	1.3	17
366	13C NMR Chemical Shifts Calculation for Model Compounds of Ethyleneâ€“Propylene Copolymer with a Low Ethylene Content. Polymer Journal, 1988, 20, 107-118.	1.3	7
367	NMR of silk fibroin 11. 1H NMR analysis of water orientation in porous silk fibroin membrane.. Journal of Fiber Science and Technology, 1988, 44, 535-540.	0.0	5
368	THE STRUCTURE ANALYSIS OF <i>Philosamia cynthia ricini</i> SILK FIBROIN AND ITS MODEL COMPOUNDS, L-ALANINE/Î²-ALANINE COPOLYMERS, BY MEANS OF ¹³C NMR SPECTROSCOPY. Journal of Fiber Science and Technology, 1988, 44, 379-384.	0.0	2
369	C-13 NMR Analysis of Isolated Ethylene Units in Ethylene-Propylene Copolymer. Polymer Journal, 1987, 19, 829-837.	1.3	2
370	Use of silk fibroin for enzyme membrane. Journal of Biotechnology, 1987, 5, 199-207.	1.9	85
371	Carbon-13 NMR chemical shift of regioirregular polypropylene. Macromolecules, 1987, 20, 616-620.	2.2	46
372	Proton NMR study of helical structures initiated by an .alpha.-aminoisobutyric acid residue in oligoleucines. Macromolecules, 1987, 20, 1227-1234.	2.2	3
373	Adsorbed behavior of spin-labeled silane coupling agent on colloidal silica studied by electron spin resonance. Journal of Biomedical Materials Research Part B, 1987, 21, 1029-1038.	3.0	20
374	Hydrolysis and condensation mechanisms of a silane coupling agent studied by 13C and 29Si NMR. Journal of Applied Polymer Science, 1987, 34, 1619-1630.	1.3	78
375	Polymerization mechanism and conformation of poly(1-butene). Polymer, 1987, 28, 1037-1040.	1.8	18
376	ESR study on the structure and molecular motion of spin-labelled silk fibroins.. Journal of Fiber Science and Technology, 1987, 43, 335-342.	0.0	9
377	A2H NMR Study of [Ser-3,3-2H2]- and [Ala-3,3,3-2H3]- Silk Fibroins in the Solid State. Role of Side-Chain Moiety in Stabilization of Secondary Structure. Bulletin of the Chemical Society of Japan, 1986, 59, 3383-3387.	2.0	23
378	NMR of silk fibroin, 6. Structure of bombyx mori silk fibroin in aqueous solution. Die Makromolekulare Chemie Rapid Communications, 1986, 7, 755-759.	1.1	38

#	Article	IF	Citations
379	Conformational characterization of Bombyx mori silk fibroin in the solid state by high-frequency carbon-13 cross polarization-magic angle spinning NMR, x-ray diffraction, and infrared spectroscopy. Macromolecules, 1985, 18, 1841-1845.	2.2	330
380	Syntheses and properties of tertiary peptide bond containing polypeptides. 6. Conformational studies of oligopeptides containing the Pro-Pro sequence by carbon-13 and proton NMR. Macromolecules, 1985, 18, 871-877.	2.2	13
381	NMR of silk fibroin. 4. Temperature- and urea-induced helix-coil transitions of the -(Ala)n- sequence in Philosamia cynthia ricini silk fibroin protein monitored by carbon-13 NMR spectroscopy. Macromolecules, 1985, 18, 2614-2619.	2.2	66
382	Syntheses and properties of tertiary peptide bond containing polypeptides. 7. Conformational studies of sequential polypeptides containing the Pro-Pro sequence by carbon-13 and proton NMR. Macromolecules, 1985, 18, 878-881.	2.2	15
383	Title is missing!. Die Makromolekulare Chemie, 1984, 185, 1827-1833.	1.1	19
384	NMR of silk fibroin. 3. Assignment of carbonyl carbon resonances and their dependence on sequence and conformation in Bombyx mori silk fibroin using selective isotopic labeling. Macromolecules, 1984, 17, 2421-2426.	2.2	68
385	High-resolution carbon-13 NMR study of silk fibroin in the solid state by the cross-polarization-magic angle spinning method. Conformational characterization of silk I and silk II type forms of Bombyx mori fibroin by the conformation-dependent carbon-13 chemical shifts. Macromolecules, 1984, 17, 1405-1412.	2.2	192
386	NMR of silk fibroin. Carbon-13 NMR study of the chain dynamics and solution structure of Bombyx mori silk fibroin. Macromolecules, 1984, 17, 1075-1081.	2.2	126
387	The Carbon-13 NMR Chemical Shift of Poly(1-butene) Referring to that of 2,4,6,8,10,12,14,16,18-Nonaethylnonadecane and a Comparison of the Chemical Shifts between Poly(1-butene) and Polypropylene. Polymer Journal, 1984, 16, 717-726.	1.3	39
388	Carbon-13 NMR Analysis of Stereodefects in Highly Isotactic Polypropylene by Calculation of Chemical Shifts. Polymer Journal, 1984, 16, 895-899.	1.3	13
389	Conformational characterization of silk fibroin in intact Bombyx mori and Pilosamia cynthia ricini silkworms by carbon-13 NMR spectroscopy. Macromolecules, 1983, 16, 1024-1026.	2.2	62
390	Carbon-13 NMR study of the chain dynamics of polypropylene and poly(1-butene) and the stereochemical dependence of the segmental mobility. Macromolecules, 1983, 16, 786-790.	2.2	31
391	A HIGH RESOLUTION13C NMR STUDY OF SILK FIBROIN IN SOLID STATE BY THE CROSS POLARIZATION-MAGIC ANGLE SPINNING METHOD: CONFORMATIONAL CHARACTERIZATION UTILIZING CONFORMATION-DEPENDENT13C CHEMICAL SHIFTS. Chemistry Letters, 1983, 12, 427-430.	0.7	39
392	Adsorbed behavior of spin-labeled poly(methyl methacrylate) on human tooth and hydroxyapatite studied by electron spin resonance. Journal of Biomedical Materials Research Part B, 1982, 16, 529-531.	3.0	6
393	NMR of silk fibroin, 1. Direct 13C NMR observation of the silk fibroin in bombyx mori. Die Makromolekulare Chemie Rapid Communications, 1982, 3, 723-726.	1.1	9
394	Carbon-13 nuclear magnetic resonance analysis of inverted monomeric units in regioirregular poly(1-butene). Macromolecules, 1981, 14, 69-71.	2.2	8
395	Effect of stereosequence on carbon-13 nuclear magnetic resonance spin-lattice relaxation times of polypropylene. Macromolecules, 1981, 14, 72-74.	2.2	8
396	ESR Study of the Spin-labeled Poly(methyl methacrylate) Adsorbed on the Human Tooth and Hydroxyapatite. Bulletin of the Chemical Society of Japan, 1981, 54, 2180-2182.	2.0	16

#	Article	IF	Citations
397	A theoretical study on the 1H NMR chemical shift of alanine oligopeptides. Die Makromolekulare Chemie, 1981, 182, 1097-1109.	1.1	6
398	Title is missing!. Die Makromolekulare Chemie, 1981, 182, 1135-1145.	1.1	9
399	1H and 13C NMR studies on N-acetyl-L-alanyl-L-alanine-methylamide. Die Makromolekulare Chemie, 1981, 182, 1153-1165.	1.1	7
400	Effect of solvent on 13C NMR chemical shifts of tetrad methylene carbons of poly(vinyl chloride). Die Makromolekulare Chemie, 1981, 182, 1243-1251.	1.1	1
401	13C-NMR Study of the Solvent Effect of theN-Acetyl-L-alanine Methyl Ester. Bulletin of the Chemical Society of Japan, 1980, 53, 490-493.	2.0	3
402	Title is missing!. Die Makromolekulare Chemie Rapid Communications, 1980, 1, 227-229.	1.1	4
403	N.m.r. study of egg yolk lecithin in aromatic solvents. Magnetic nonequivalence in the methylene protons of the fatty acyl chains. Polymer, 1980, 21, 1372-1378.	1.8	3
404	1H and 13C n.m.r. studies of the conformational change in poly(n-butyl isocyanate). Polymer, 1980, 21, 579-582.	1.8	1
405	Carbon-13 NMR Spin-Lattice Relaxation Times of Inverted Monomeric Units in Polypropylene. Macromolecules, 1980, 13, 454-455.	2.2	6
406	1H- and13C-NMR studies ofN-acetyl-L-alanine methylester andN-acetyl-L-alanine methylamide. I. Self-association. Biopolymers, 1979, 18, 467-477.	1.2	22
407	13C NMR analysis of chemical inversion in polypropylene. Die Makromolekulare Chemie, 1977, 178, 791-801.	1.1	39
408	The proton chemical shifts of Î±-helical poly-L-alanine. Die Makromolekulare Chemie, 1977, 178, 1111-1132.	1.1	19
409	The Î±-CH proton chemical shift in the coil conformation of poly(L-alanine). Die Makromolekulare Chemie, 1977, 178, 1521-1533.	1.1	8
410	A theoretical study on the proton chemical shifts of polypropylene. Die Makromolekulare Chemie, 1976, 177, 523-548.	1.1	11
411	Title is missing!. Die Makromolekulare Chemie, 1976, 177, 1493-1500.	1.1	10
412	The proton chemical shifts and the stereochemical structures of poly(vinyl chloride). Die Makromolekulare Chemie, 1975, 176, 411-437.	1.1	19
413	A quantum-chemical study of the preferred conformations of the model compounds of polypropylene. Die Makromolekulare Chemie, 1975, 176, 1151-1161.	1.1	14
414	Biodegradation of Multilayer Silk Fibroin and Hydroxyapatite Composite Material. Key Engineering Materials, 0, , 1169-1172.	0.4	1

#	Article	IF	Citations
415	Silks. , 0, , 7255-7262.		0