Yasumoto Nakazawa

List of Publications by Year
in descending order

72	2,218	218677	223800
papers	citations	26 h-index	46 g-index

74	74	74	1708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	4.2	230
2	Long-term patency of small-diameter vascular graft made from fibroin, a silk-based biodegradable material. Journal of Vascular Surgery, 2010, 51, 155-164.	1.1	197
3	Some Observations on the Structure and Function of the Spinning Apparatus in the SilkwormBombyxmori. Biomacromolecules, 2007, 8, 175-181.	5.4	143
4	Silk structure studied with nuclear magnetic resonance. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 69, 23-68.	7.5	88
5	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.	2.4	86
6	Colored Fluorescent Silk Made by Transgenic Silkworms. Advanced Functional Materials, 2013, 23, 5232-5239.	14.9	82
7	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.	0.9	76
8	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.	13.7	73
9	Smallâ€Ðiameter 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.	7.6	73
10	Elucidating silk structure using solid-state NMR. Soft Matter, 2013, 9, 11440.	2.7	65
11	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.	13.7	62
12	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.	3.5	62
13	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.	7.6	59
14	Structures ofBombyxmoriandSamiacynthiariciniSilk Fibroins Studied with Solid-State NMR. Biomacromolecules, 2004, 5, 680-688.	5.4	57
15	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.	4.8	53
16	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.	4.8	51
17	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.	7.6	41
18	Small-diameter vascular grafts of Bombyx mori silk fibroin prepared by a combination of electrospinning and sponge coating. Materials Letters, 2010, 64, 1786-1788.	2.6	40

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19	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.	3.2	39
20	Synthesis and Characterization of Chimeric Silkworm Silk. Biomacromolecules, 2003, 4, 815-820.	5.4	37
21	Silk fibroin-PellethaneÂ® cardiovascular patches: Effect of silk fibroin concentration on vascular remodeling in rat model. Journal of Materials Science: Materials in Medicine, 2017, 28, 191.	3.6	37
22	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.	7.6	35
23	Heterogeneous exchange behavior ofSamia cynthia ricinisilk fibroin during helix-coil transition studied with13C NMR. FEBS Letters, 2002, 529, 188-192.	2.8	32
24	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.	4.8	31
25	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.	5.8	29
26	Structure and Structural Changes of the Silk Fibroin fromSamia cynthia ricini Using Nuclear Magnetic Resonance Spectroscopy. Macromolecular Bioscience, 2004, 4, 175-185.	4.1	27
27	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.	13.7	27
28	Bombyx mori silk fibroin scaffolds for bone regeneration studied by bone differentiation experiment. Journal of Bioscience and Bioengineering, 2013, 115, 575-578.	2.2	26
29	A 13C NMR study on the structural change of silk fibroin from Samia cynthia ricini. Chemical Physics Letters, 1999, 311, 362-366.	2.6	25
30	Structure of Model Peptides Based onNephilaclavipesDragline Silk Spidroin (MaSp1) Studied by13C Cross Polarization/Magic Angle Spinning NMR. Biomacromolecules, 2005, 6, 3220-3226.	5.4	25
31	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.	4.8	25
32	Evaluation of sealability for aged rubber seals by spinâ€“spin relaxation time. Polymer Testing, 2016, 49, 147-155.	4.8	22
33	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.	4.8	19
34	Compatibility Evaluation of Non-Woven Sheet Composite of Silk Fibroin and Polyurethane in the Wet State. Polymers, 2018, 10, 874.	4.5	18
35	The effect of a silk Fibroin/Polyurethane blend patch on rat Vessels. Organogenesis, 2017, 13, 115-124.	1.2	17
36	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.	4.8	15

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37	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.	5.4	15
38	Determination of intermolecular distance for a model peptide ofBombyx mori silk fibroin, GAGAG, with rotational echo double resonance. Biopolymers, 2002, 64, 80-85.	2.4	14
39	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.	2.8	14
40	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.	0.2	14
41	Solid-state NMR studies for the development of non-woven biomaterials based on silk fibroin and polyurethane. Polymer Journal, 2017, 49, 583-586.	2.7	13
42	Structural characterization of silk-polyurethane composite material for biomaterials using solid-state NMR. Polymer Journal, 2012, 44, 802-807.	2.7	12
43	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.	2.7	12
44	Development of a new surgical sheet containing both silk fibroin and thermoplastic polyurethane for cardiovascular surgery. Surgery Today, 2018, 48, 486-494.	1.5	11
45	Conformational Study of Silk-Like Peptides Containing the Calcium-Binding Sequence from Calbindin D9kUsing13C CP/MAS NMR Spectroscopy. Biomacromolecules, 2006, 7, 627-634.	5.4	10
46	Studies on the potential risk of amyloidosis from exposure to silk fibroin. Biomedical Materials (Bristol), 2016, 11, 065010.	3.3	10
47	Fabrication Scheme for Obtaining Transparent, Flexible, and Water-Insoluble Silk Films from Apparently Dissolved Silk-Gland Fibroin of Bombyx mori Silkworm. ACS Biomaterials Science and Engineering, 2017, 3, 3207-3214.	5.2	7
48	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.	2.7	6
49	Development of silk/polyurethane small-diameter vascular graft by electrospinning. Seikei-Kakou, 2013, 25, 181-187.	0.0	6
50	Relationship between structure and physical strength of silk fibroin nanofiber sheet depending on insolubilization treatment. Journal of Applied Polymer Science, 2017, 134, 45560.	2.6	6
51	Structure Water-Solubility Relationship in Î±-Helix-Rich Films Cast from Aqueous and 1,1,1,3,3,3-Hexafluoro-2-Propanol Solutions of S. c. ricini Silk Fibroin. Molecules, 2019, 24, 3945.	3.8	6
52	Silk fibroin-based vascular repairing sheet with angiogenic-promoting activity of SVVYGLR peptide regenerated the damaged vascular in rats. Journal of Biomaterials Applications, 2020, , 088532822092866.	2.4	6
53	Determination of Structures of Silk Fibroins from Silkworms and Spiders using Solid-state NMR. Kobunshi Ronbunshu, 2006, 63, 707-719.	0.2	4
54	Determination of limiting values of 1H spin-spin relaxation time to assess lifetime of thermally aged acrylonitrile butadiene rubber. Polymer Degradation and Stability, 2019, 162, 12-21.	5.8	4

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55	Solid-state and time domain NMR to elucidate degradation behavior of thermally aged poly (urea-urethane). Polymer Degradation and Stability, 2020, 172, 109052.	5.8	4
56	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.	2.7	3
57	Aggregation State of Residual Î±-Helices and Their Influence on Physical Properties of S. c. ricini Native Fiber. Molecules, 2019, 24, 3741.	3.8	3
58	A novel gradient and multilayered sheet with a silk fibroin/polyvinyl alcohol coreâ€“shell structure for bioabsorbable arterial grafts. Journal of Biomedical Materials Research - Part A, 2021, , .	4.0	3
59	Structural Analysis of Silk and Application of Silk to Biomaterials. Journal of Fiber Science and Technology, 2007, 63, P.261-P.265.	0.0	3
60	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
61	Silk fibroin/polyurethane patch implantation in hyperglycemic rat model. Journal of Biomaterials Applications, 2021, 36, 701-713.	2.4	2
62	Structural Analysis and Application to Biomaterials of the Silk Fibroins. Kobunshi Ronbunshu, 2010, 67, 428-439.	0.2	1
63	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
64	Transgenics: Colored Fluorescent Silk Made by Transgenic Silkworms (Adv. Funct. Mater. 42/2013). Advanced Functional Materials, 2013, 23, 5218-5218.	14.9	1
65	Structure of Bombyx mori silk fibroin before spinning in solid state studied with wide angle x-ray scattering and 13C cross-polarization/magic angle spinning NMR. , 2001, 58, 521.		1
66	Structures of Bombyx mori and Samia cynthia Ricini Silk Fibroins Studied with Solid-State NMR. ChemInform, 2004, 35, no.	0.0	0
67	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.	2.7	0
68	NMR Characterization and Product Design of Novel Silk-Based Biomaterials. ACS Symposium Series, 2011, , 281-297.	0.5	0
69	Evaluation as Biomaterials of Silk Fibroin Degummed by Different Method. Kobunshi Ronbunshu, 2018, 75, 54-60.	0.2	0
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71	Development of Tissue-Engineered Silk Fibroin-Based Materials for Cardiovascular Devices. Journal of Fiber Science and Technology, 2016, 72, P-294-P-294.	0.0	0
72	Fabrication and Characterization of Elastin-Crosslinked Silk Fibroin Material for Tissue Engineering. Kobunshi Ronbunshu, 2018, 75, 80-83.	0.2	0