Tetsuo Asakura

List of Publications by Year in Descending Order

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56 85 400 11,274 h-index g-index citations papers 6.1 12,013 423 4.7 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
400	Acetylation and hydration treatment of recombinant spider silk fiber, and their characterization using 13C NMR spectroscopy. <i>Polymer</i> , 2022 , 243, 124605	3.9	O
399	Bio-functionalized titanium surfaces with modified silk fibroin carrying titanium binding motif to enhance the ossific differentiation of MC3T3-E1. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2585-259	∂ f .9	0
398	Structural investigations of polyurethane and silk-polyurethane composite fiber studied by 13C solid-state NMR spectroscopy. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51178	2.9	O
397	Evaluation of small-diameter silk vascular grafts implanted in dogs. JTCVS Open, 2021, 6, 148-156	0.2	1
396	Structure of Silk I (Silk Fibroin before Spinning) -Type II ⊡Turn, Not ⊞elix. <i>Molecules</i> , 2021 , 26,	4.8	7
395	Structure and dynamics of biodegradable polyurethane-silk fibroin composite materials in the dry and hydrated states studied using 13C solid-state NMR spectroscopy. <i>Polymer Degradation and Stability</i> , 2021 , 190, 109645	4.7	2
394	Structure and Dynamics of Spider Silk Studied with Solid-State Nuclear Magnetic Resonance and Molecular Dynamics Simulation. <i>Molecules</i> , 2020 , 25,	4.8	6
393	Lamellar Structure in Alanine-Glycine Copolypeptides Studied by Solid-State NMR Spectroscopy: A Model for the Crystalline Domain of Silk Fibroin in Silk II Form. <i>Biomacromolecules</i> , 2020 , 21, 3102-3111	6.9	7
392	Biodegradable Extremely-Small-Diameter Vascular Graft Made of Silk Fibroin can be Implanted in Mice. <i>Journal of Atherosclerosis and Thrombosis</i> , 2020 , 27, 1299-1309	4	4
391	Development of Small-diameter Polyester Vascular Grafts Coated with Silk Fibroin Sponge. Organogenesis, 2020 , 16, 1-13	1.7	3
390	Silk Fibroin as a Coating Polymer for Sirolimus-Eluting Magnesium Alloy Stents <i>ACS Applied Bio Materials</i> , 2020 , 3, 531-538	4.1	14
389	Acetylation of Bombyx mori silk fibroin and their characterization in the dry and hydrated states using C solid-state NMR. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1410-1419	7.9	4
388	Chain-folded lamellar structure and dynamics of the crystalline fraction of Bombyx mori silk fibroin and of (Ala-Gly-Ser-Gly-Ala-Gly) model peptides. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3974-3983	7.9	5
387	Silk fibroin vascular graft: a promising tissue-engineered scaffold material for abdominal venous system replacement. <i>Scientific Reports</i> , 2020 , 10, 21041	4.9	9
386	Development of Small-Diameter Elastin-Silk Fibroin Vascular Grafts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 622220	5.8	2
385	Packing Structure of Antiparallel Esheet Polyalanine Region in a Sequential Model Peptide of Dragline Silk Studied Using C Solid-State NMR and MD Simulation. <i>Biomacromolecules</i> , 2019 , 20, 3884-3	894	6
384	Conformational change of C-labeled 47-mer model peptides of Nephila clavipes dragline silk in poly(vinyl alcohol) film by stretching studied by C solid-state NMR and molecular dynamics simulation. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 654-665	7.9	3

383	NMR Analysis of Poly(Lactic Acid) via Statistical Models. <i>Polymers</i> , 2019 , 11,	4.5	8
382	Emergence of supercontraction in regenerated silkworm (Bombyx mori) silk fibers. <i>Scientific Reports</i> , 2019 , 9, 2398	4.9	11
381	Toward Understanding the Silk Fiber Structure: C Solid-State NMR Studies of the Packing Structures of Alanine Oligomers before and after Trifluoroacetic Acid Treatment. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6716-6727	3.4	3
380	Advanced Silk Fibroin Biomaterials and Application to Small-Diameter Silk Vascular Grafts. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5561-5577	5.5	25
379	Silk fibroin produced by transgenic silkworms overexpressing the Arg-Gly-Asp motif accelerates cutaneous wound healing in mice. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 97-103	3.5	15
378	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. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 1239-1252	2.9	10
377	Quantitative Analysis of Solid-State Homonuclear Correlation Spectra of Antiparallel Esheet Alanine Tetramers. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2715-2724	3.4	4
376	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	5.5	17
375	Effect of Water on the Structure and Dynamics of Regenerated [3-C] Ser, [3-C], and [3-C] Ala-Bombyx mori Silk Fibroin Studied with C Solid-State Nuclear Magnetic Resonance. <i>Biomacromolecules</i> , 2018 , 19, 563-575	6.9	12
374	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. <i>Macromolecules</i> , 2018 , 51, 3608-3619	5.5	9
373	Structure Analysis of Bombyx mori Silk Fibroin Using NMR 2018 , 349-361		1
372	3D N/ H Double Quantum/ H Single Quantum Correlation Solid-State NMR for Probing the Parallel and Anti-Parallel Beta-Sheet Arrangement of Oligo-Peptides at Natural Abundance. <i>ChemPhysChem</i> , 2018 , 19, 1841	3.2	11
371	Dynamics of Alanine Methyl Groups in Alanine Oligopeptides and Spider Dragline Silks with Different Packing Structures As Studied by 13C Solid-State NMR Relaxation. <i>Macromolecules</i> , 2018 , 51, 6746-6756	5.5	7
370	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 C Solid-State NMR and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6511-6520	3.4	8
369	NMR Studies on Silk Materials 2018 , 297-312		
368	Silk 2018 , 1-19		3
367	Changes in the Local Structure of Nephila clavipes Dragline Silk Model Peptides upon Trifluoroacetic Acid, Low pH, Freeze-Drying, and Hydration Treatments Studied by C Solid-State NMR. <i>Biomacromolecules</i> , 2018 , 19, 4396-4410	6.9	7
366	Structural Analyses of Alanine Trimer and Tetramer Crystals with Antiparallel and Parallel Esheet Structures Using Solid-State H Spin-Diffusion 2D Correlation NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 9373-9381	3.4	O

365	Characterization of water in hydrated Bombyx mori silk fibroin fiber and films by H NMR relaxation and C solid state NMR. <i>Acta Biomaterialia</i> , 2017 , 50, 322-333	10.8	23
364	NMR studies of water dynamics during sol-to-gel transition of poly (N-isopropylacrylamide) in concentrated aqueous solution. <i>Polymer</i> , 2017 , 109, 287-296	3.9	11
363	C NMR characterization of hydrated C labeled Bombyx mori silk fibroin sponges prepared using glycerin, poly(ethylene glycol diglycidyl ether) and poly(ethylene glycol) as porogens. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2152-2160	7.3	12
362	Hydration of Bombyx mori silk cocoon, silk sericin and silk fibroin and their interactions with water as studied by C NMR and H NMR relaxation. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1624-1632	7.3	21
361	Packing arrangement of C selectively labeled sequence model peptides of Samia cynthia ricini silk fibroin fibers studied by solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13379-13386	3.6	14
360	Refined Crystal Structure of Samia cynthia ricini Silk Fibroin Revealed by Solid-State NMR Investigations. <i>Biomacromolecules</i> , 2017 , 18, 1965-1974	6.9	22
359	Evaluation of endothelialization in the center part of graft using 3½m vascular grafts implanted in the abdominal aortae of the rat. <i>Journal of Artificial Organs</i> , 2017 , 20, 221-229	1.8	5
358	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. <i>Macromolecules</i> , 2017 , 50, 2871-2880	5.5	5
357	Relationship between structure and physical strength of silk fibroin nanofiber sheet depending on insolubilization treatment. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45560	2.9	5
356	NMR Investigation about Heterogeneous Structure and Dynamics of Recombinant Spider Silk in the Dry and Hydrated States. <i>Macromolecules</i> , 2017 , 50, 8117-8128	5.5	15
355	Development of Silk Based Artificial Blood Vessel by Electro-spinning Method. <i>Journal of Textile Engineering</i> , 2017 , 63, 175-179	0.3	
354	Packing Arrangements and Intersheet Interaction of Alanine Oligopeptides As Revealed by Relaxation Parameters Obtained from High-Resolution C Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8946-8955	3.4	6
353	Distinct solvent- and temperature-dependent packing arrangements of anti-parallel Bheet polyalanines studied with solid-state C NMR and MD simulation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20829-20838	3.6	12
352	Solution NMR Structure and Conformation of Silk Fibroins Stored in Bombyx mori and Samia cynthia ricini Silkworms. <i>ACS Symposium Series</i> , 2017 , 191-206	0.4	
351	Structure Analysis of Bombyx mori Silk Fibroin Using NMR 2017 , 1-13		Ο
350	Effect of the surface morphology of silk fibroin scaffolds for bone regeneration. <i>Bio-Medical Materials and Engineering</i> , 2016 , 27, 413-424	1	O
349	Nanotechnology in Agriculture. ACS Symposium Series, 2016, 233-242	0.4	28
348	Structure and Dynamic Properties of a Ti-Binding Peptide Bound to TiO2 Nanoparticles As Accessed by (1)H NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 4600-7	3.4	20

347	Rapid endothelialization and thin luminal layers in vascular grafts using silk fibroin. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 938-946	7.3	12
346	Glycerin-Induced Conformational Changes in Bombyx mori Silk Fibroin Film Monitored by (13)C CP/MAS NMR and IH DQMAS NMR. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	11
345	Parallel Esheet Structure of Alanine Tetrapeptide in the Solid State As Studied by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8932-41	3.4	7
344	Sensitivity enhanced (14)N/(14)N correlations to probe inter-beta-sheet interactions using fast magic angle spinning solid-state NMR in biological solids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22583-9	3.6	14
343	Analysis of the Structure of Bombyx mori Silk Fibroin by NMR. <i>Macromolecules</i> , 2015 , 48, 2345-2357	5.5	123
342	Effect of fibroin sponge coating on in vivo performance of knitted silk small diameter vascular grafts. <i>Organogenesis</i> , 2015 , 11, 137-51	1.7	19
341	Structural Determination of the Tandem Repeat Motif in Samia cynthia ricini Liquid Silk by Solution NMR. <i>Macromolecules</i> , 2015 , 48, 6574-6579	5.5	17
340	Nano-mole scale sequential signal assignment by (1)H-detected protein solid-state NMR. <i>Chemical Communications</i> , 2015 , 51, 15055-8	5.8	39
339	Stretching-Induced Conformational Transition of the Crystalline and Noncrystalline Domains of 13C-Labeled Bombyx mori Silk Fibroin Monitored by Solid State NMR. <i>Macromolecules</i> , 2015 , 48, 5761-5	5 <i>7</i> 6 9	22
338	Introduction of VEGF or RGD sequences improves revascularization properties of Bombyx mori silk fibroin produced by transgenic silkworm. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7109-7116	7.3	29
337	Biological reaction to small-diameter vascular grafts made of silk fibroin implanted in the abdominal aortae of rats. <i>Annals of Vascular Surgery</i> , 2015 , 29, 341-52	1.7	32
336	Structural Analysis of Polymers Based on the Origin of the NMR Chemical Shift. <i>Kobunshi Ronbunshu</i> , 2015 , 72, 653-660	Ο	
335	Structural Transition of Bombyx mori Liquid Silk Studied with Vibrational Circular Dichroism Spectroscopy. <i>Analytical Sciences</i> , 2015 , 31, 763-8	1.7	7
334	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. <i>Macromolecules</i> , 2015 , 48, 8062-8069	5.5	30
333	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. <i>Macromolecules</i> , 2015 , 48, 28-36	5.5	35
332	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. <i>PLoS ONE</i> , 2015 , 10, e0122714	3.7	12
331	Characterization of silk sponge in the wet state using 13C solid state NMR for development of a porous silk vascular graft with small diameter. <i>RSC Advances</i> , 2014 , 4, 4427-4434	3.7	18
330	Recombinant silk fibroin incorporated cell-adhesive sequences produced by transgenic silkworm as a possible candidate for use in vascular graft. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7375-7383	7.3	19

329	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 13Cl 3C Homonuclear Correlation NMR and Relaxation Time Observation. <i>Macromolecules</i> , 2014 , 47, 4308-4316	5.5	23
328	NMR study of the structures of repeated sequences, GAGXGA ($X = S, Y, V$), in Bombyx mori liquid silk. <i>Biomacromolecules</i> , 2014 , 15, 104-12	6.9	42
327	NMR analysis and tacticity determination of poly(lactic acid) in C5D5N. <i>Polymer Testing</i> , 2014 , 38, 35-39	4.5	11
326	Effect of plasma-irradiated silk fibroin in bone regeneration. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 118, 333-40	3.3	16
325	NMR Studies of Thermo-responsive Behavior of an Amphiphilic Poly(asparagine) Derivative in Water. <i>Polymer</i> , 2014 , 55, 278-286	3.9	7
324	In vitro and in vivo Evaluation of Hemocompatibility of Silk Fibroin Based Artificial Vascular Grafts. <i>International Journal of Chemistry</i> , 2014 , 6,	1.1	5
323	Preparation of Braiding Silk Vascular Graft Coated by Silk Fibroin and Evaluation by Implantation into Dog Abdominal Aorta. <i>Journal of Fiber Science and Technology</i> , 2014 , 70, 281-287	О	2
322	Difference in the structures of alanine tri- and tetra-peptides with antiparallel Esheet assessed by X-ray diffraction, solid-state NMR and chemical shift calculations by GIPAW. <i>Biopolymers</i> , 2014 , 101, 13-	2 0 2	21
321	Application of Bombyx mori Silk Fibroin as a Biomaterial for Vascular Grafts. <i>Biologically-inspired Systems</i> , 2014 , 69-85	0.7	3
320	The Silk I and Lamella Structures of (Ala-Gly)15 as the Model of Bombyx mori Silk Fibroin Studied with Solid State NMR. <i>Biologically-inspired Systems</i> , 2014 , 49-68	0.7	13
319	?????????/????//??????????????????????	Ο	
318	Bombyx mori silk fibroin scaffolds for bone regeneration studied by bone differentiation experiment. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 115, 575-8	3.3	23
317	Silk structure studied with nuclear magnetic resonance. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2013 , 69, 23-68	10.4	73
316	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. <i>Biomacromolecules</i> , 2013 , 14, 3731-41	6.9	6
315	Elucidating silk structure using solid-state NMR. Soft Matter, 2013, 9, 11440	3.6	57
314	Silk fibroin-based scaffolds for bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 295-302	3.5	35
313	Small-diameter silk vascular grafts (3 mm diameter) with a double-raschel knitted silk tube coated with silk fibroin sponge. <i>Advanced Healthcare Materials</i> , 2013 , 2, 361-8	10.1	60
312	Colored Fluorescent Silk Made by Transgenic Silkworms. <i>Advanced Functional Materials</i> , 2013 , 23, 5232-	523 0	69

(2011-2013)

311	Determination of Accurate 1H Positions of (Ala-Gly)n as a Sequential Peptide Model of Bombyx mori Silk Fibroin before Spinning (Silk I). <i>Macromolecules</i> , 2013 , 46, 8046-8050	5.5	26
310	Preparation of Small-Diameter Silk Fibroin Tubular Scaffolds with Electrospinning Method. <i>Materials Science Forum</i> , 2013 , 745-746, 1-5	0.4	
309	Development of silk/polyurethane small-diameter vascular graft by electrospinning. <i>Seikei-Kakou</i> , 2013 , 25, 181-187	O	4
308	13 C solid-state NMR study of the 13 C-labeled peptide, (E)8 GGLGGQGAG(A)6 GGAGQGGYGG as a model for the local structure of Nephila clavipes dragline silk (MaSp1) before and after spinning. <i>Biopolymers</i> , 2012 , 97, 347-54	2.2	11
307	Two different packing arrangements of antiparallel polyalanine. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1212-5	16.4	38
306	Determination of accurate 1H positions of an alanine tripeptide with anti-parallel and parallel Etheet structures by high resolution 1H solid state NMR and GIPAW chemical shift calculation. <i>Chemical Communications</i> , 2012 , 48, 11199-201	5.8	24
305	Characterization of a Ca binding-amphipathic silk-like protein and peptide with the sequence (Glu)8(Ala-Gly-Ser-Gly-Ala-Gly)4 with potential for bone repair. <i>Soft Matter</i> , 2012 , 8, 741-748	3.6	11
304	NMR analysis and chemical shift calculations of poly(lactic acid) dimer model compounds with different tacticities. <i>Polymer Journal</i> , 2012 , 44, 838-844	2.7	10
303	Two Different Packing Arrangements of Antiparallel Polyalanine. Angewandte Chemie, 2012, 124, 1238-	-13241	5
302	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. <i>Polymer Journal</i> , 2012 , 44, 913-917	2.7	3
301	1H MRI study of small-diameter silk vascular grafts in water. <i>Polymer Journal</i> , 2012 , 44, 868-875	2.7	1
3 00	Structural characterization of silk-polyurethane composite material for biomaterials using solid-state NMR. <i>Polymer Journal</i> , 2012 , 44, 802-807	2.7	10
299	Development of Small-Diameter Vascular Grafts Based on Silk Fibroin Fibers from Bombyx mori for Vascular Regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 195-206	3.5	53
298	Stereoregularity of Poly(lactic acid) and their Model Compounds as studied by NMR and Quantum Chemical Calculations. <i>Macromolecules</i> , 2011 , 44, 9247-9253	5.5	12
297	The Interaction of A[1-40) Peptide with Lipid Bilayers and Ganglioside As Studied by Multinuclear Solid-State NMR. <i>ACS Symposium Series</i> , 2011 , 299-316	0.4	1
296	NMR Characterization and Product Design of Novel Silk-Based Biomaterials. <i>ACS Symposium Series</i> , 2011 , 281-297	0.4	
295	Innovative NMR Strategies for Complex Macromolecules. ACS Symposium Series, 2011, 3-16	0.4	4
294	Preparation of double-raschel knitted silk vascular grafts and evaluation of short-term function in a rat abdominal aorta. <i>Journal of Artificial Organs</i> , 2011 , 14, 89-99	1.8	64

293	Regeneration of the femoral epicondyle on calcium-binding silk scaffolds developed using transgenic silk fibroin produced by transgenic silkworm. <i>Acta Biomaterialia</i> , 2011 , 7, 1192-201	10.8	33
292	Porous silk fibroin film as a transparent carrier for cultivated corneal epithelial sheets. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 2261-76	3.5	55
291	Synthesis and Characterization of Novel Silk-Like Proteins Using Genetic Engineering Methods. <i>Advanced Materials Research</i> , 2011 , 175-176, 258-265	0.5	
290	NMR analysis of the fibronectin cell-adhesive sequence, Arg-Gly-Asp, in a recombinant silk-like protein and a model peptide. <i>Biomacromolecules</i> , 2011 , 12, 3910-6	6.9	13
289	Very fast magic angle spinning (1)H-(14)N 2D solid-state NMR: sub-micro-liter sample data collection in a few minutes. <i>Journal of Magnetic Resonance</i> , 2011 , 208, 44-8	3	112
288	Molecular dynamics and orientation of stretched rubber by solid-state 13C NMR. <i>Polymer Journal</i> , 2010 , 42, 25-30	2.7	10
287	Local conformation of serine residues in a silk model peptide, (AlaŭlyBerŭlyAlaŭly)5, studied with solid-state NMR:REDOR. <i>Polymer Journal</i> , 2010 , 42, 354-356	2.7	5
286	Mechanical properties of regenerated Bombyx mori silk fibers and recombinant silk fibers produced by transgenic silkworms. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 395-411	3.5	47
285	Long-term patency of small-diameter vascular graft made from fibroin, a silk-based biodegradable material. <i>Journal of Vascular Surgery</i> , 2010 , 51, 155-64	3.5	170
284	NMR Study of Interactions between Silk Model Peptide and Fluorinated Alcohols for Preparation of Regenerated Silk Fiber. <i>Macromolecules</i> , 2010 , 43, 2364-2370	5.5	5
283	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. <i>Macromolecules</i> , 2010 , 43, 9434-9440	5.5	20
282	Cell Shape and Matrix Production of Fibroblasts Cultured on Fibroin-organized Silk Scaffold with Type-II .BETAturn Structured (Ala-Gly-Ala-Gly-Ser-Gly)n Sequences. <i>Journal of Health Science</i> , 2010 , 56, 738-744		5
281	Molecular Dynamics Calculation on the Generation of Aggregated Structure of Poly(L-Alanine)from the Aqueous Solution. <i>Kobunshi Ronbunshu</i> , 2010 , 67, 45-50	О	
280	Structural Change of Poly(glycolic acid) by Stretching studied with MD Simulation, 13C CP/MAS NMR and X-ray Diffraction Methods. <i>Kobunshi Ronbunshu</i> , 2010 , 67, 57-60	O	
279	Small-diameter vascular grafts of Bombyx mori silk fibroin prepared by a combination of electrospinning and sponge coating. <i>Materials Letters</i> , 2010 , 64, 1786-1788	3.3	35
278	Microscopic structural analysis of fractured silk fibers from Bombyx mori and Samia cynthia ricini using 13C CP/MAS NMR with a 1mm microcoil MAS NMR probehead. <i>Solid State Nuclear Magnetic Resonance</i> , 2010 , 38, 27-30	3.1	14
277	Development of the Tissue Engineered Medical Products Based on Silk Fibroin from Bombyx mori and Transgenic Silkworm. <i>Journal of Fiber Science and Technology</i> , 2009 , 65, P.11-P.13	О	2
276	Preparation and characterization of regenerated fiber from the aqueous solution of Bombyx mori cocoon silk fibroin. <i>Materials Chemistry and Physics</i> , 2009 , 117, 430-433	4.4	21

(2008-2009)

275	Comparative study of silk fibroin porous scaffolds derived from salt/water and sucrose/hexafluoroisopropanol in cartilage formation. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 108, 68-75	3.3	97
274	Development of silk-like materials based on Bombyx mori and Nephila clavipes dragline silk fibroins. <i>Polymer</i> , 2009 , 50, 117-124	3.9	18
273	Heterogeneous structure of poly(glycolic acid) fiber studied with differential scanning calorimeter, X-ray diffraction, solid-state NMR and molecular dynamic simulation. <i>Polymer</i> , 2009 , 50, 6083-6090	3.9	9
272	The interaction of amyloid Abeta(1-40) with lipid bilayers and ganglioside as studied by 31P solid-state NMR. <i>Chemistry and Physics of Lipids</i> , 2009 , 158, 54-60	3.7	38
271	Structural Study of Silk-like Peptides Modified by the Addition of the Cell Adhesive Sequence, RGD, Using 13C CP/MAS NMR. <i>Polymer Journal</i> , 2009 , 41, 18-19	2.7	
270	Detection of Poorly-Oriented Component in Uniaxially Stretched Poly(glycolic acid) Fiber Studied Using 13C Solid-State NMR. <i>Polymer Journal</i> , 2009 , 41, 582-583	2.7	1
269	Rheological properties of native silk fibroins from domestic and wild silkworms, and flow analysis in each spinneret by a finite element method. <i>Biomacromolecules</i> , 2009 , 10, 929-35	6.9	38
268	Structural Characterization of Silk-Based Water-Soluble Peptides (Glu)n(Ala-Gly-Ser-Gly-Ala-Gly)4 (n = 4B) as a Mimic of Bombyx mori Silk Fibroin by 13C Solid-State NMR. <i>Macromolecules</i> , 2009 , 42, 8950-8	958	18
267	Intra- and intermolecular effects on 1H chemical shifts in a silk model Peptide determined by high-field solid state 1H NMR and empirical calculations. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 975	6 ³ 6 ⁴ 1	19
266	Synthesis and characterization of cell-adhesive silk-like proteins constructed from the sequences of Anaphe silk fibroin and fibronectin. <i>Biomacromolecules</i> , 2009 , 10, 923-8	6.9	21
265	Structural analysis of the Gly-rich region in spider dragline silk using stable-isotope labeled sequential model peptides and solid-state NMR. <i>Chemical Communications</i> , 2009 , 4176-8	5.8	15
264	Structural Analyses of Anaphe Silk Fibroin and Several Model Peptides Using 13C NMR and X-ray Diffraction Methods. <i>Macromolecules</i> , 2008 , 41, 796-803	5.5	24
263	Investigation of structural transition of regenerated silk fibroin aqueous solution by Rheo-NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4182-6	16.4	48
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