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Structure and solubility of natural silk fibroin

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#	Paper	IF	Citations
157	Compatibility of fibroin/chitosan and fibroin/cellulose blends studied by thermal analysis. 2007 , 89, 887-891		43
156	The behavior of aged regenerated Bombyx mori silk fibroin solutions studied by (1)H NMR and rheology. 2008 , 29, 4268-74		43
155	Nano- and Micropatterning of Optically Transparent, Mechanically Robust, Biocompatible Silk Fibroin Films. 2008 , 20, 3070-3072		161
154	Bombyx mori silk fibroin membranes as potential substrata for epithelial constructs used in the management of ocular surface disorders. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1203-11	3.9	117
153	Refinement of nano-structured fibroin thin films by near-IR pulsed laser deposition from targets consolidated with autogenous binder. 2008 , 19, 915-24		2
152	Preparation of PCM microcapsules by complex coacervation of silk fibroin and chitosan. 2009 , 287, 1455-1467		79
151	Ultra-sensitive vibrational spectroscopy of protein monolayers with plasmonic nanoantenna arrays. 2009 , 106, 19227-32		480
150	Preparation and properties of nano-amorphous organic and inorganic particles via chemical and mechanochemical routes. 2009 , 483, 265-270		18
149	Animal silks: their structures, properties and artificial production. 2009 , 6515-29		186
148	Effect of freezing methods on the properties of lyophilized porous silk fibroin membranes. 2009 , 12, 233-237		22
147	Metamaterial silk composites at terahertz frequencies. 2010 , 22, 3527-31		89
146	Spatial and spectral detection of protein monolayers with deterministic aperiodic arrays of metal nanoparticles. 2010 , 107, 12086-90		43
145	Layer-by-layer deposited chitosan/silk fibroin thin films with anisotropic nanofiber alignment. 2010 , 26, 8953-8		46
144	Dielectric relaxation spectroscopy of hydrated and dehydrated silk fibroin cast from aqueous solution. 2010 , 11, 2766-75		22
143	Tunable silk: using microfluidics to fabricate silk fibers with controllable properties. 2011 , 12, 1504-11		129
142	Improvement of physicochemical stabilities of emulsions containing oil droplets coated by non-globular proteinBeet pectin complex membranes. 2011 , 44, 1468-1475		28
141	Monitoring the Presence of Humic Substances in Wool and Silk by the Use of Nondestructive Fluorescence Spectroscopy: Quality Control for 14C Dating of Wool and Silk. 2011 , 53, 429-442		9

140	Blend films of silk fibroin and water-insoluble polyurethane prepared from an ionic liquid. 2011 , 65, 2489-2491	25
139	Cell-culture compatible silk fibroin scaffolds concomitantly patterned by freezing conditions and salt concentration. 2011 , 67, 159-175	19
138	An investigation into silk fibroin conformation in composite materials intended for drug delivery. 2011 , 414, 218-24	27
137	Preparation and characterization of blended Bombyx mori silk fibroin scaffolds. <i>Fibers and Polymers</i> , 2011 , 12, 324-333	2 24
136	The dyeing of silk: Part 3 the application and wash-off of modified vinyl sulfone dyes. 2011 , 88, 212-219	9
135	The dyeing of silk: Part 4 heterobifunctional dyes. 2011 , 88, 396-402	17
134	Hydrogels from silk fibroin metastable solution: Formation and characterization from a biomaterial perspective. <i>Materials Science and Engineering C</i> , 2011 , 31, 997-1001	8.3 34
133	The influence of UV radiation on silk fibroin. 2011 , 96, 523-528	73
132	Design and characterization of a silk-fibroin-based drug delivery platform using naproxen as a model drug. 2012 , 2012, 490514	42
131	Silk cocoon and rubber based gas sensors. 2012 ,	1
130	Hydrogen-bonded Multilayers of Silk Fibroin: From Coatings to Cell-mimicking Shaped Microcontainers. 2012 , 2012, 384-387	33
129	Properties and biocompatibility of chitosan and silk fibroin blend films for application in skin tissue engineering. 2012 , 2012, 697201	57
128	Silk fibroin/poly(vinyl alcohol) photocrosslinked hydrogels for delivery of macromolecular drugs. <i>Acta Biomaterialia</i> , 2012 , 8, 1720-9	10.8 103
127	Proteomic profiling of the photo-oxidation of silk fibroin: implications for historic tin-weighted silk. 2012 , 88, 1217-26	20
126	Human stem cell neuronal differentiation on silk-carbon nanotube composite. 2012 , 7, 126	49
125	Effect of Gelatin on Secondary Structure, Crystallinity and Swelling Behavior of Silk Fibroin - Gelatin Hydrogels and its Application in Controlled Release of Nitrogen. 2013 , 750-752, 1347-1353	5
124	Preparation and properties of nanometer silk fibroin peptide/polyvinyl alcohol blend films for cell growth. <i>International Journal of Biological Macromolecules</i> , 2013 , 61, 135-41	7.9 16
123	Fibrous protein nanofibers. 2013 , 996, 61-76	5

122	Effect of various dissolution systems on the molecular weight of regenerated silk fibroin. 2013 , 14, 285-9		93
121	Biopolymer Blends as Potential Biomaterials and Cosmetic Materials. 2013 , 583, 95-100		7
120	UV Light as a Tool for Surface Modification of Polymeric Biomaterials. 2013 , 583, 80-86		2
119	What Happens during Natural Protein Fibre Dissolution in Ionic Liquids. <i>Materials</i> , 2014 , 7, 6158-6168	3.5	36
118	Fabrication of Silk Nanofibres with Needle and Roller Electrospinning Methods. 2014 , 2014, 1-9		24
117	The role of dialysis and freezing on structural conformation, thermal properties and morphology of silk fibroin hydrogels. 2014 , 4, e28536		20
116	Physico-chemical characterization and biological evaluation of two fibroin materials. 2014 , 8, 874-85		3
115	Preparation and evaluation of collagen-silk fibroin/hydroxyapatite nanocomposites for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 1-7	7.9	62
114	Natural dyeing with black cowpea seed coat. I. Dyeing properties of cotton and silk fabrics. <i>Fibers and Polymers</i> , 2014 , 15, 138-144	2	15
113	Size exclusion chromatography for analyses of fibroin in silk: optimization of sampling and separation conditions. 2014 , 114, 301-308		10
112	Degradation markers of fibroin in silk through infrared spectroscopy. 2014 , 105, 185-196		57
111	The influence of UV-irradiation on thermal and mechanical properties of chitosan and silk fibroin mixtures. 2014 , 140, 301-5		33
110	Insights into the production and characterization of electrospun fibers from regenerated silk fibroin. <i>European Polymer Journal</i> , 2014 , 60, 123-134	5.2	10
109	On the Routines of Wild-Type Silk Fibroin Processing Toward Silk-Inspired Materials: A Review. 2015 , 300, 1199-1216		31
108	A New Crosslinker for the Preparation of Silk Fibroin Hydrogels. 2015 , 354, 273-279		4
107	Tuning assembly and enzymatic degradation of silk/poly(N-vinylcaprolactam) multilayers via molecular weight and hydrophobicity. 2015 , 11, 5133-45		18
106	The influence of the hydrophilic-lipophilic environment on the structure of silk fibroin protein. 2015 , 3, 2599-2606		31
105	Homogeneous sulfation of silk fibroin in an ionic liquid. 2015 , 143, 302-304		10

104	Development of silk fibroin/nanohydroxyapatite composite hydrogels for bone tissue engineering. <i>European Polymer Journal</i> , 2015 , 67, 66-77	5.2	62
103	Fibroin degradation [Critical evaluation of conventional analytical methods. 2015 , 120, 357-367		9
102	Preparation and characterization of silk fibroin/hydroxypropyl methyl cellulose (HPMC) blend films. <i>Fibers and Polymers</i> , 2015 , 16, 1734-1741	2	38
101	Evaluating degradation of silk's fibroin by attenuated total reflectance infrared spectroscopy: case study of ancient banners from Polish collections. 2015 , 135, 576-82		20
100	Fabrication of Silk Fibroin Nanofibres by Needleless Electrospinning. 2016 ,		5
99	Preparation, Characterization and Application of Polyaniline/silk Fibroin Composite. 2016 , 24, 633-642		1
98	Impact and dynamic mechanical thermal properties of textile silk reinforced epoxy resin composites. 2016 , 137, 012062		1
97	Conformational transitions of thai silk fibroin secondary structures. 2016 ,		4
96	Tyrosine Templating in the Self-Assembly and Crystallization of Silk Fibroin. 2016 , 17, 3570-3579		35
95	Hybrid scaffolding strategy for dermal tissue reconstruction: a bioactive glass/chitosan/silk fibroin composite. 2016 , 6, 19887-19896		14
94	Perspective of Using ILs as Green Solvents [2016, 101-159		3
93	Silk: A Unique Family of Biopolymers. 2016 , 127-141		1
92	Evaluating the impact of different exogenous factors on silk textiles deterioration with use of size exclusion chromatography. 2016 , 122, 1		5
91	Spider silk as a blueprint for greener materials: a review. 2016 , 61, 127-153		33
90	Spider silk inspired materials and sustainability: perspective. 2016 , 1-16		7
89	Enhancement of antioxidant ability of Bombyx mori silk fibroins by enzymatic coupling of catechin. 2016 , 100, 1713-1722		10
88	Fabrication and characterization of fibroin solution and nanoparticle from silk fibers of Bombyx mori. 2017 , 35, 304-313		12
87	Progress and Trends in Artificial Silk Spinning: A Systematic Review. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 226-237	5.5	131

86	Composite Electrospun Scaffold Derived from Recombinant Fibroin of Weaver Ant (<i>Oecophylla smaragdina</i>) as Cell-Substratum. 2017 , 183, 110-125		3
85	Production and characterization of fibroin hydrogel using waste silk fibers. <i>Fibers and Polymers</i> , 2017 , 18, 57-63	2	16
84	Fabrication of Nanoscale Patternable Films of Silk Fibroin Using Benign Solvents. 2017 , 302, 1700110		25
83	Protein Content in Silken Webs of Cellar Spiders (Family-Pholcidae): Effect of Habitat and Senescence. 2017 , 40, 315-318		1
82	Fabrication of Biocompatible, Functional, and Transparent Hybrid Films Based on Silk Fibroin and Epoxy Silane for Biophotonics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27905-27917	9.5	16
81	Study of the Rheological Characteristics of Solutions of Silk Fibroin in 1-Butyl-3-Methylimidazolium Acetate and Films Based on Them. 2017 , 49, 88-96		6
80	Investigation of novel superparamagnetic NiZnFeO@albumen nanoparticles for controlled delivery of anticancer drug. 2017 , 28, 365101		11
79	Phase Behaviour and Miscibility Studies of Collagen/Silk Fibroin Macromolecular System in Dilute Solutions and Solid State. <i>Molecules</i> , 2017 , 22,	4.8	13
78	Silk Fibroin Separators: A Step Toward Lithium-Ion Batteries with Enhanced Sustainability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5385-5394	9.5	36
77	Multilayer Assemblies of Biopolymers. 2018 , 57-106		
76	Formation of Cellulose and Protein Blend Biofibers. 2018 , 77-117		7
75	Fabrication and characterization of electrospun laminin-functionalized silk fibroin/poly(ethylene oxide) nanofibrous scaffolds for peripheral nerve regeneration. 2018 , 106, 1595-1604		40
74	A Review of the Emerging Role of Silk for the Treatment of the Eye. 2018 , 35, 248		23
73	Sintese e caracteriza de scaffolds de fibroa. 2018 , 23,		0
72	Conformational Transitions of Silk Fibroin in Solutions under the Action of Ultrasound. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 1193-1197	0.8	3
71	Chitin/silk fibroin/TiO bio-nanocomposite as a biocompatible wound dressing bandage with strong antimicrobial activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 966-976	7.9	71
70	Materials, Processes, and Facile Manufacturing for Bioresorbable Electronics: A Review. 2018 , 30, e1707624		94
69	Instructive proteins for tissue regeneration. 2018 , 23-49		4

68	Silk fibroin micro-particle scaffolds with superior compression modulus and slow bioresorption for effective bone regeneration. <i>Scientific Reports</i> , 2018 , 8, 7235	4.9	26
67	Silk fibroin-derived polypeptides additives to promote hydroxyapatite nucleation in dense collagen hydrogels. 2019 , 14, e0219429		8
66	Degradation Behavior and Immunological Detection of Silk Fibroin Exposure to Enzymes. 2019 , 35, 1243-1249	1	
65	A preliminary study of the decline in solubility of ancient silk protein. 2019 , 169, 108988		2
64	Silk Fibroin Dissolution in Tetrabutylammonium Hydroxide Aqueous Solution. 2019 , 20, 4107-4116		10
63	Extended release formulations using silk proteins for controlled delivery of therapeutics. 2019 , 16, 741-756		31
62	Silk fabric protection obtained via chemical conjugation of transglutaminase and silk fibroin reinforcement. 2019 , 89, 4581-4594		4
61	Study of nanostructured fibroin/dextran matrixes for controlled protein release. <i>European Polymer Journal</i> , 2019 , 114, 197-205	5.2	5
60	Electrospun polycaprolactone/silk fibroin nanofibrous bioactive scaffolds for tissue engineering applications. 2019 , 168, 86-94		39
59	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019 , 11,	4.5	121
58	Tailoring silk fibroin separator membranes pore size for improving performance of lithium ion batteries. 2020 , 598, 117678		24
57	The influence of metal ions on native silk rheology. <i>Acta Biomaterialia</i> , 2020 , 117, 204-212	10.8	11
56	Preparation and characterization of new materials based on silk fibroin, chitosan and nanohydroxyapatite. <i>International Journal of Polymer Analysis and Characterization</i> , 2020 , 25, 315-333	1.7	5
55	Tuning the conformation and mechanical properties of silk fibroin hydrogels. <i>European Polymer Journal</i> , 2020 , 134, 109842	5.2	35
54	Laccase-mediated construction of flexible double-network hydrogels based on silk fibroin and tyramine-modified hyaluronic acid. <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 795-805	7.9	13
53	Silk Fibroin Processing from CeCl ₃ Aqueous Solution: Fibers Regeneration and Doping with Ce(III). <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000066	2.6	4
52	Natural Fibrous Protein for Advanced Tissue Engineering Applications: Focusing on Silk Fibroin and Keratin. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1249, 39-49	3.6	7
51	Strategies for Tuning the Biodegradation of Silk Fibroin-Based Materials for Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1290-1310	5.5	25

50	Examination of Dyeing Properties on Silk of Some Flavonoids by Spectroscopic Techniques. <i>Journal of Natural Fibers</i> , 2021 , 18, 238-249	1.8	6
49	Processing Strategies to Obtain Highly Porous Silk Fibroin Structures with Tailored Microstructure and Molecular Characteristics and Their Applicability in Water Remediation. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123675	12.8	13
48	Engineering of sustainable biomaterial composites from cellulose and silk fibroin: Fundamentals and applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 687-718	7.9	18
47	A Bio-inspired Multifunctionalized Silk Fibroin. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 507-516	9.5	6
46	Silk fibroin microspheres as optical resonators for wide-range humidity sensing and biodegradable lasers. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5653-5657	7.8	2
45	A Comparative Study on the Dissolution of Silk Fibroin and Fabrication of Films and Nanofibers. <i>Polymers</i> , 2021 , 13,	4.5	0
44	Development of electrically conductive porous silk fibroin/carbon nanofiber scaffolds. <i>Biomedical Materials (Bristol)</i> , 2021 , 16, 025027	3.5	
43	Silk Fibroin as a Functional Biomaterial for Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	48
42	A Design of Experiment Rational Optimization of the Degumming Process and Its Impact on the Silk Fibroin Properties. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1374-1393	5.5	15
41	Crosslinking strategies for silk fibroin hydrogels: promising biomedical materials. <i>Biomedical Materials (Bristol)</i> , 2021 , 16, 022004	3.5	7
40	Dissolution and processing of silk fibroin for materials science. <i>Critical Reviews in Biotechnology</i> , 2021 , 41, 406-424	9.4	5
39	Assessing the Influence of Dyes Physico-Chemical Properties on Incorporation and Release Kinetics in Silk Fibroin Matrices. <i>Polymers</i> , 2021 , 13,	4.5	1
38	Dual Metal-Loaded Porous Carbon Materials Derived from Silk Fibroin as Bifunctional Electrocatalysts for Hydrogen Evolution Reaction and Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30678-30692	9.5	4
37	Ecofriendly application of coconut coir (<i>Cocos nucifera</i>) extract for silk dyeing. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	11
36	Effects of Added Water on the Resinification Conditions, Bending Strength, Optical Performance, and Structural Properties of Artificial Spider Protein Resin Prepared by Hot-Pressing the Powder. <i>Fibers and Polymers</i> , 1	2	
35	Silk Fibroin-Coated Liposomes as Biomimetic Nanocarrier for Long-Term Release Delivery System in Cancer Therapy. <i>Molecules</i> , 2021 , 26,	4.8	2
34	A Fast and Reliable Process to Fabricate Regenerated Silk Fibroin Solution from Degummed Silk in 4 Hours. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
33	Fabrication of a novel 3D scaffold for cartilage tissue repair: In-vitro and in-vivo study. <i>Materials Science and Engineering C</i> , 2021 , 128, 112285	8.3	5

32	A comparison of protein extraction methods suitable for gel-based proteomic studies of spider silk proteins. 2021 ,		1
31	Effects of Ultraviolet Light Irradiation on Silk Fibroin Films Prepared under Different Conditions. <i>Biomolecules</i> , 2021 , 11,	5.9	3
30	Cytocompatibility of Modified Silk Fibroin with Glycidyl Methacrylate for Tissue Engineering and Biomedical Applications. <i>Biomolecules</i> , 2020 , 11,	5.9	5
29	Dissolution properties of silk cocoon shells and degummed fibers from African wild silkmoths. <i>Pakistan Journal of Biological Sciences</i> , 2013 , 16, 1199-203	0.8	4
28	Bombyx moriSilk Fibroin Membranes as Potential Substrata for Epithelial Constructs Used in the Management of Ocular Surface Disorders. <i>Tissue Engineering - Part A</i> , 2008 , 080422095744451	3.9	1
27	Preparation of Alginate-fibroin Beads with Diverse Structures. <i>KSBB Journal</i> , 2011 , 26, 422-426	1.5	
26	3D bioprinted silk fibroin hydrogels for tissue engineering. <i>Nature Protocols</i> , 2021 , 16, 5484-5532	18.8	10
25	CHAPTER 2:Silk. 2020 , 25-63		
24	Insights into Nanomechanical Behavior and Molecular Mechanisms in Bombyx Mori Silk Fibroin in Saline Environment Using Molecular Dynamics Analysis. <i>Macromolecular Research</i> , 2021 , 29, 694-712	1.9	1
23	Cellulose, chitin and silk: the cornerstones of green composites. <i>Emergent Materials</i> , 1	3.5	0
22	The effect of feeding various species of mulberry (<i>Morus</i> spp.) on the growth of silkworm and quality of cocoon hybrid BS 09. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 914, 012019	3	0
21	Silk materials at the convergence of science, sustainability, healthcare, and technology. <i>Applied Physics Reviews</i> , 2022 , 9, 011302	17.3	7
20	Properties of bio-based fibers. 2022 , 33-64		
19	Nano-Bio-engineered Silk Matrix based Devices for Molecular Bioanalysis.. <i>Biotechnology and Bioengineering</i> , 2021 ,	4.9	2
18	Chemical Modification of Silk Proteins: Current Status and Future Prospects. <i>Advanced Fiber Materials</i> , 1	10.9	0
17	Species identification of silks by protein mass spectrometry reveals evidence of wild silk use in antiquity.. <i>Scientific Reports</i> , 2022 , 12, 4579	4.9	0
16	Fabrication of neuroprotective silk-sericin hydrogel: potential neuronal carrier for the treatment and care of ischemic stroke. <i>Journal of Experimental Nanoscience</i> , 2022 , 17, 362-376	1.9	0
15	Chemical Modification of Silk Fibroin through Serine Amino Acid Residues. <i>Materials</i> , 2022 , 15, 4399	3.5	1

14	Combinatorial effect of pH and ionic strength in the release of charged dyes from silk fibroin membranes. <i>MRS Communications</i> ,	2.7	
13	A review on structure, preparation and applications of silk fibroin-based nano-drug delivery systems. <i>Journal of Nanoparticle Research</i> , 2022 , 24,	2.3	○
12	A Biological Study of Composites Based on the Blends of Nanohydroxyapatite, Silk Fibroin and Chitosan. 2022 , 15, 5444		
11	Biomimetic injectable hydrogel based on silk fibroin/hyaluronic acid embedded with methylprednisolone for cartilage regeneration. 2022 , 219, 112859		1
10	Efficient Regulation of Dyeing Behavior and Physical Properties of Bombyx mori Silks via Graft Polymerization of Lipoic Acid. 2022 , 23, 2225-2233		○
9	Insignificant Difference in Biocompatibility of Regenerated Silk Fibroin Prepared with Ternary Reagent Compared with Regenerated Silk Fibroin Prepared with Lithium Bromide. 2022 , 14, 3903		○
8	Silk Fibroin-g-Polyaniline Platform for the Design of Biocompatible-Electroactive Substrate. 2022 , 14, 4653		○
7	Silk Fibroin as Sustainable Advanced Material: Material Properties and Characteristics, Processing, and Applications. 2210764		2
6	Silk Fibroin Biomaterials and Their Beneficial Role in Skin Wound Healing. 2022 , 12, 1852		○
5	Promising Role of Silk-Based Biomaterials for Ocular-Based Drug Delivery and Tissue Engineering. 2022 , 14, 5475		○
4	A review on augmentation of natural fabric materials with novel bio/nanomaterials and their multifunctional perspectives. 2023 , 2, 100020		○
3	Methods for Silk Property Analyses across Structural Hierarchies and Scales. 2023 , 28, 2120		○
2	Natural polymers used in the dressing materials for wound healing: Past, present and future.		○
1	Facile construction of calcium titanate-loaded silk fibroin scaffolds hybrid frameworks for accelerating neuronal cell growth in peripheral nerve regeneration. 2023 , 9, e15074		○