Shenzhou Lu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74 papers	2,459 citations	23 h-index	49 g-index
76 ext. papers	2,804 ext. citations	4 avg, IF	4.85 L-index

#	Paper	IF	Citations
74	Fabrication of flexible conductive silk fibroin/polythiophene membrane and its properties. *E-Polymers*, **2021**, 22, 48-57	2.7	
73	Chemical, Thermal, Time, and Enzymatic Stability of Silk Materials with Silk I Structure. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	7
72	Synthesis of 1,8-naphthimide-based fluorescent perchloroethylene and its application in the analysis of H2O/DMF composition. *Research on Chemical Intermediates*, **2021**, 47, 2217	2.8	
71	Highly Absorbent Silk Fibroin Protein Xerogel. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3594-3607	5.5	2
70	Synthesis of pH and Glucose Responsive Silk Fibroin Hydrogels. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
69	Silk Fibroin Microneedle Patches for the Treatment of Insomnia.. *Pharmaceutics*, **2021**, 13,	6.4	5
68	Green Pathway for Processing Non-mulberry Antheraea pernyi Silk Fibroin/Chitin-Based Sponges: Biophysical and Biochemical Characterization. *Frontiers in Materials*, **2020**, 7,	4	4
67	Silk/polyols/GOD microneedle based electrochemical biosensor for continuous glucose monitoring.. *RSC Advances*, **2020**, 10, 6163-6171	3.7	35
66	Combined Silk Fibroin Microneedles for Insulin Delivery. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3422-3429	5.5	29
65	Photocurable silk fibroin- polyvinylpyrrolidone hydrogel. *Materialia*, **2020**, 9, 100525	3.2	8
64	Tunable High-Molecular-Weight Silk Fibroin Polypeptide Materials: Fabrication and Self-Assembly Mechanism.. *ACS Applied Bio Materials*, **2020**, 3, 3248-3259	4.1	6
63	Study on silk fibroin nanofibers with long length. *Modern Physics Letters B*, **2019**, 33, 1950194	1.6	
62	Highly elastomeric photocurable silk hydrogels. *International Journal of Biological Macromolecules*, **2019**, 134, 838-845	7.9	15
61	Insulin-Loaded Silk Fibroin Microneedles as Sustained Release System. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1887-1894	5.5	31
60	Detection of Fe3+ using a novel hyperbranched polymeric spectral sensor. *Analytical Methods*, **2019**, 11, 4456-4463	3.2	8
59	Fabrication of Silk Fibroin/Graphene Film with High Electrical Conductivity and Humidity Sensitivity. *Polymers*, **2019**, 11,	4.5	17
58	Chinese Oak Tasar Silkworm Antheraea pernyi Silk Proteins: Current Strategies and Future Perspectives for Biomedical Applications. *Macromolecular Bioscience*, **2019**, 19, e1800252	5.5	19

57	Three-dimensional tissue culture model of human breast cancer for the evaluation of multidrug resistance. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1959-1971	4.4	14
56	Silk Fibroin/Polyvinyl Pyrrolidone Interpenetrating Polymer Network Hydrogels. *Polymers*, **2018**, 10,	4.5	15
55	Preparation, Structure, and Properties of Silk Fabric Grafted with 2-Hydroxypropyl Methacrylate Using the HRP Biocatalyzed ATRP Method. *Polymers*, **2018**, 10,	4.5	5
54	Swellable silk fibroin microneedles for transdermal drug delivery. *International Journal of Biological Macromolecules*, **2018**, 106, 48-56	7.9	60
53	A silk fibroin hydrogel with reversible sol□gel transition. *RSC Advances*, **2017**, 7, 24085-24096	3.7	32
52	Orientational behaviors of silk fibroin hydrogels. *Journal of Applied Polymer Science*, **2017**, 134, 45050	2.9	6
51	Study on Antheraea perny Silk Fibroin Nanoparticles Carried Insulin. *Nano Research & Applications*, **2017**, 03,	0	5
50	Self-Assembling Silk-Based Nanofibers with Hierarchical Structures. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2617-2627	5.5	17
49	Natural Non-Mulberry Silk Nanoparticles for Potential-Controlled Drug Release. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	12
48	In Vitro Controlled Release of Topically Applied Capsaicin from Silk Hydrogel: A Study Contributed to the Pain Relief System. *Materials Science Forum*, **2015**, 815, 332-335	0.4	
47	Ion-induced fabrication of silk fibroin nanoparticles from Chinese oak tasar Antheraea pernyi. *International Journal of Biological Macromolecules*, **2015**, 79, 316-25	7.9	30
46	Excellent Cell Compatibility in Time Controlled Silk Fibroin Hydrogels. *Materials Science Forum*, **2015**, 815, 407-411	0.4	4
45	Potential of biocompatible regenerated silk fibroin/sodium N-lauroyl sarcosinate hydrogels. *Journal of Biomaterials Science, Polymer Edition*, **2015**, 26, 780-95	3.5	13
44	Corneal Matrix Repair Carrier with Composite Silk Protein Membrane. *Materials Science Forum*, **2015**, 815, 424-428	0.4	
43	The influence of the hydrophilic-lipophilic environment on the structure of silk fibroin protein. *Journal of Materials Chemistry B*, **2015**, 3, 2599-2606	7.3	31
42	A single thiourea-appended 1,8-naphthalimide chemosensor for three heavy metal ions: Fe3+, Pb2+, and Hg2+. *Sensors and Actuators B: Chemical*, **2015**, 208, 258-266	8.5	80
41	Silk fibroin composite membranes for application in corneal regeneration. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	4
40	Preparation and Mechanical and Optical Properties of SF/Pyrrolidone Blend Film. *Materials Science Forum*, **2015**, 815, 327-331	0.4	1

39	Performance of cross-linked silk fibroin membrane using tyrosinase. *Materials Research Innovations*, **2015**, 19, S10-392-S10-396	1.9	
38	One-pot synthesis of a new rhodamine-based dually-responsive pH sensor and its application to bioimaging. *Tetrahedron*, **2014**, 70, 6974-6979	2.4	19
37	Response of filopodia and lamellipodia to surface topography on micropatterned silk fibroin films. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4206-12	5.4	20
36	Cationic Surfactant-Induced Instantaneous Gelation of Silk Fibroin Solution. *Asian Journal of Chemistry*, **2014**, 26, 5667-5672	0.4	2
35	Antheraea pernyi Silk Fibroin Nanoparticles for Drug Delivery. *Journal of Nano Research*, **2014**, 27, 75-81	1	10
34	The Micropillar Structure on Silk Fibroin Film Influence Intercellular Connection Mediated by Nanotubular Structures. *Materials*, **2014**, 7, 4628-4639	3.5	3
33	Antheraea pernyi Silk Fibroin Microspheres Carried Lysozyme. *Advanced Materials Research*, **2014**, 915-916, 875-878	0.5	3
32	Effect of degumming ph value on electrospining of silk fibroin. *Thermal Science*, **2014**, 18, 1703-1704	1.2	1
31	Silk fibroin/chondroitin sulfate/hyaluronic acid ternary scaffolds for dermal tissue reconstruction. *Acta Biomaterialia*, **2013**, 9, 6771-82	10.8	149
30	The effect of iron incorporation on the in vitro bioactivity and drug release of mesoporous bioactive glasses. *Ceramics International*, **2013**, 39, 6591-6598	5.1	23
29	Study on Silk Fibroin D-Mannose Blend Films. *Advanced Materials Research*, **2013**, 796, 112-116	0.5	
28	Study on Antheraea Pernyi Silk Fibroin Microspheres Carried Drug. *Advanced Materials Research*, **2013**, 796, 117-120	0.5	2
27	Antimicrobial Silk Fibroin Hydrogel Instantaneously Induced by Cationic Surfactant. *Biotechnology*, **2013**, 12, 128-134	0.1	6
26	Preparation of uniaxial multichannel silk fibroin scaffolds for guiding primary neurons. *Acta Biomaterialia*, **2012**, 8, 2628-38	10.8	96
25	Sodium dodecyl sulfate-induced rapid gelation of silk fibroin. *Acta Biomaterialia*, **2012**, 8, 2185-92	10.8	99
24	Preparation of Water-Insoluble Antheraea Pernyi Silk Fibroin Films. *Advanced Materials Research*, **2012**, 569, 311-315	0.5	1
23	Regenerated Antheraea pernyi Silk Fibroin Nanofiber Film. *Advanced Materials Research*, **2012**, 465, 160-164	0.5	1
22	Study on Silk Fibroin/ Propylene Glycol Blend Films. *Advanced Materials Research*, **2012**, 627, 785-790	0.5	

21	Silk Fibroin Sol-Gel Transitions in Different Solutions. *Advanced Materials Research*, **2011**, 175-176, 153-157	0.5	2
20	Study on Antheraea Pernyi Silk Fibroin Porous Materials. *Advanced Materials Research*, **2011**, 332-334, 1718-1721	0.5	
19	Preparation of Transparent Water-Insoluble Silk Fibroin Films. *Advanced Materials Research*, **2011**, 175-176, 79-84	0.5	
18	Silk fibroin electrogelation mechanisms. *Acta Biomaterialia*, **2011**, 7, 2394-400	10.8	104
17	Nanofibrous architecture of silk fibroin scaffolds prepared with a mild self-assembly process. *Biomaterials*, **2011**, 32, 1059-67	15.6	101
16	Impact of Sterilization Methods on the Stability of Silk Fibroin Solution. *Advanced Materials Research*, **2011**, 311-313, 1755-1759	0.5	4
15	Preparation and Characterization of Silk Fibroin/Hydroxyapatite Bilayer Scaffolds. *Advanced Materials Research*, **2011**, 415-417, 1810-1815	0.5	1
14	Insoluble and flexible silk films containing glycerol. *Biomacromolecules*, **2010**, 11, 143-50	6.9	155
13	The use of silk fibroin/hydroxyapatite composite co-cultured with rabbit bone-marrow stromal cells in the healing of a segmental bone defect. *Journal of Bone and Joint Surgery: British Volume*, **2010**, 92, 320-5		44
12	Water-insoluble silk films with silk I structure. *Acta Biomaterialia*, **2010**, 6, 1380-7	10.8	450
11	Preparation and Characteristics of Gradient Silk Fibroin/Hydroxyapatite Porous Composites. *Materials Science Forum*, **2009**, 610-613, 1231-1236	0.4	
10	Stabilization of horseradish peroxidase in silk materials. *Frontiers of Materials Science in China*, **2009**, 3, 367-373		20
9	Antheraea pernyi silk fibroin maintains the immunosupressive properties of human bone marrow mesenchymal stem cells. *Cell Biology International*, **2009**, 33, 1127-34	4.5	11
8	Stabilization of enzymes in silk films. *Biomacromolecules*, **2009**, 10, 1032-42	6.9	140
7	Porous 3-D scaffolds from regenerated Antheraea pernyi silk fibroin. *Polymers for Advanced Technologies*, **2008**, 19, 207-212	3.2	33
6	Attachment and growth of human bone marrow derived mesenchymal stem cells on regenerated antheraea pernyi silk fibroin films. *Biomedical Materials (Bristol)*, **2006**, 1, 181-7	3.5	46
5	Compliant film of regenerated Antheraea pernyi silk fibroin by chemical crosslinking. *International Journal of Biological Macromolecules*, **2003**, 32, 159-63	7.9	64
4	Study on porous silk fibroin materials: 3. Influence of repeated freeze□thawing on the structure and properties of porous silk fibroin materials. *Polymers for Advanced Technologies*, **2002**, 13, 605-610	3.2	22

3	Structure and properties of silk fibroin-poly(vinyl alcohol) gel. *International Journal of Biological Macromolecules*, **2002**, 30, 89-94	7.9	96
2	Study on porous silk fibroin materials. I. Fine structure of freeze dried silk fibroin. *Journal of Applied Polymer Science*, **2001**, 79, 2185-2191	2.9	114
1	Study on porous silk fibroin materials. II. Preparation and characteristics of spongy porous silk fibroin materials. *Journal of Applied Polymer Science*, **2001**, 79, 2192-2199	2.9	97