

# Shenzhou Lu

## List of Publications by Citations

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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	Water-insoluble silk films with silk I structure. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 1380-7	10.8	450
73	Insoluble and flexible silk films containing glycerol. <i>Biomacromolecules</i> , <b>2010</b> , 11, 143-50	6.9	155
72	Silk fibroin/chondroitin sulfate/hyaluronic acid ternary scaffolds for dermal tissue reconstruction. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6771-82	10.8	149
71	Stabilization of enzymes in silk films. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1032-42	6.9	140
70	Study on porous silk fibroin materials. I. Fine structure of freeze dried silk fibroin. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 79, 2185-2191	2.9	114
69	Silk fibroin electrogelation mechanisms. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2394-400	10.8	104
68	Nanofibrous architecture of silk fibroin scaffolds prepared with a mild self-assembly process. <i>Biomaterials</i> , <b>2011</b> , 32, 1059-67	15.6	101
67	Sodium dodecyl sulfate-induced rapid gelation of silk fibroin. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2185-92	10.8	99
66	Study on porous silk fibroin materials. II. Preparation and characteristics of spongy porous silk fibroin materials. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 79, 2192-2199	2.9	97
65	Preparation of uniaxial multichannel silk fibroin scaffolds for guiding primary neurons. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2628-38	10.8	96
64	Structure and properties of silk fibroin-poly(vinyl alcohol) gel. <i>International Journal of Biological Macromolecules</i> , <b>2002</b> , 30, 89-94	7.9	96
63	A single thiourea-appended 1,8-naphthalimide chemosensor for three heavy metal ions: Fe <sup>3+</sup> , Pb <sup>2+</sup> , and Hg <sup>2+</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 208, 258-266	8.5	80
62	Compliant film of regenerated <i>Antheraea pernyi</i> silk fibroin by chemical crosslinking. <i>International Journal of Biological Macromolecules</i> , <b>2003</b> , 32, 159-63	7.9	64
61	Swellable silk fibroin microneedles for transdermal drug delivery. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 106, 48-56	7.9	60
60	Attachment and growth of human bone marrow derived mesenchymal stem cells on regenerated <i>Antheraea pernyi</i> silk fibroin films. <i>Biomedical Materials (Bristol)</i> , <b>2006</b> , 1, 181-7	3.5	46
59	The use of silk fibroin/hydroxyapatite composite co-cultured with rabbit bone-marrow stromal cells in the healing of a segmental bone defect. <i>Journal of Bone and Joint Surgery: British Volume</i> , <b>2010</b> , 92, 320-5		44
58	Silk/polyols/GOD microneedle based electrochemical biosensor for continuous glucose monitoring.. <i>RSC Advances</i> , <b>2020</b> , 10, 6163-6171	3.7	35

57	Porous 3-D scaffolds from regenerated <i>Antheraea pernyi</i> silk fibroin. <i>Polymers for Advanced Technologies</i> , <b>2008</b> , 19, 207-212	3.2	33
56	A silk fibroin hydrogel with reversible sol-gel transition. <i>RSC Advances</i> , <b>2017</b> , 7, 24085-24096	3.7	32
55	Insulin-Loaded Silk Fibroin Microneedles as Sustained Release System. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 1887-1894	5.5	31
54	The influence of the hydrophilic-lipophilic environment on the structure of silk fibroin protein. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2599-2606	7.3	31
53	Ion-induced fabrication of silk fibroin nanoparticles from Chinese oak tasar <i>Antheraea pernyi</i> . <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 79, 316-25	7.9	30
52	Combined Silk Fibroin Microneedles for Insulin Delivery. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3422-3429	5.5	29
51	The effect of iron incorporation on the in vitro bioactivity and drug release of mesoporous bioactive glasses. <i>Ceramics International</i> , <b>2013</b> , 39, 6591-6598	5.1	23
50	Study on porous silk fibroin materials: 3. Influence of repeated freeze-thawing on the structure and properties of porous silk fibroin materials. <i>Polymers for Advanced Technologies</i> , <b>2002</b> , 13, 605-610	3.2	22
49	Response of filopodia and lamellipodia to surface topography on micropatterned silk fibroin films. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 4206-12	5.4	20
48	Stabilization of horseradish peroxidase in silk materials. <i>Frontiers of Materials Science in China</i> , <b>2009</b> , 3, 367-373		20
47	One-pot synthesis of a new rhodamine-based dually-responsive pH sensor and its application to bioimaging. <i>Tetrahedron</i> , <b>2014</b> , 70, 6974-6979	2.4	19
46	Chinese Oak Tasar Silkworm <i>Antheraea pernyi</i> Silk Proteins: Current Strategies and Future Perspectives for Biomedical Applications. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1800252	5.5	19
45	Fabrication of Silk Fibroin/Graphene Film with High Electrical Conductivity and Humidity Sensitivity. <i>Polymers</i> , <b>2019</b> , 11,	4.5	17
44	Self-Assembling Silk-Based Nanofibers with Hierarchical Structures. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 2617-2627	5.5	17
43	Highly elastomeric photocurable silk hydrogels. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 134, 838-845	7.9	15
42	Silk Fibroin/Polyvinyl Pyrrolidone Interpenetrating Polymer Network Hydrogels. <i>Polymers</i> , <b>2018</b> , 10,	4.5	15
41	Three-dimensional tissue culture model of human breast cancer for the evaluation of multidrug resistance. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 1959-1971	4.4	14
40	Potential of biocompatible regenerated silk fibroin/sodium N-lauroyl sarcosinate hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2015</b> , 26, 780-95	3.5	13

39	Natural Non-Mulberry Silk Nanoparticles for Potential-Controlled Drug Release. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	12
38	Antheraea pernyi silk fibroin maintains the immunosuppressive properties of human bone marrow mesenchymal stem cells. <i>Cell Biology International</i> , <b>2009</b> , 33, 1127-34	4.5	11
37	Antheraea pernyi Silk Fibroin Nanoparticles for Drug Delivery. <i>Journal of Nano Research</i> , <b>2014</b> , 27, 75-81	1	10
36	Detection of Fe <sup>3+</sup> using a novel hyperbranched polymeric spectral sensor. <i>Analytical Methods</i> , <b>2019</b> , 11, 4456-4463	3.2	8
35	Photocurable silk fibroin- polyvinylpyrrolidone hydrogel. <i>Materialia</i> , <b>2020</b> , 9, 100525	3.2	8
34	Chemical, Thermal, Time, and Enzymatic Stability of Silk Materials with Silk I Structure. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	7
33	Oriental behaviors of silk fibroin hydrogels. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45050	2.9	6
32	Antimicrobial Silk Fibroin Hydrogel Instantaneously Induced by Cationic Surfactant. <i>Biotechnology</i> , <b>2013</b> , 12, 128-134	0.1	6
31	Tunable High-Molecular-Weight Silk Fibroin Polypeptide Materials: Fabrication and Self-Assembly Mechanism.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 3248-3259	4.1	6
30	Study on Antheraea pernyi Silk Fibroin Nanoparticles Carried Insulin. <i>Nano Research &amp; Applications</i> , <b>2017</b> , 03,	0	5
29	Preparation, Structure, and Properties of Silk Fabric Grafted with 2-Hydroxypropyl Methacrylate Using the HRP Biocatalyzed ATRP Method. <i>Polymers</i> , <b>2018</b> , 10,	4.5	5
28	Synthesis of pH and Glucose Responsive Silk Fibroin Hydrogels. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
27	Silk Fibroin Microneedle Patches for the Treatment of Insomnia.. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	5
26	Excellent Cell Compatibility in Time Controlled Silk Fibroin Hydrogels. <i>Materials Science Forum</i> , <b>2015</b> , 815, 407-411	0.4	4
25	Green Pathway for Processing Non-mulberry Antheraea pernyi Silk Fibroin/Chitin-Based Sponges: Biophysical and Biochemical Characterization. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	4
24	Silk fibroin composite membranes for application in corneal regeneration. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	4
23	Impact of Sterilization Methods on the Stability of Silk Fibroin Solution. <i>Advanced Materials Research</i> , <b>2011</b> , 311-313, 1755-1759	0.5	4
22	The Micropillar Structure on Silk Fibroin Film Influence Intercellular Connection Mediated by Nanotubular Structures. <i>Materials</i> , <b>2014</b> , 7, 4628-4639	3.5	3

21	Antheraea pernyi Silk Fibroin Microspheres Carried Lysozyme. <i>Advanced Materials Research</i> , <b>2014</b> , 915-916, 875-878	0.5	3
20	Cationic Surfactant-Induced Instantaneous Gelation of Silk Fibroin Solution. <i>Asian Journal of Chemistry</i> , <b>2014</b> , 26, 5667-5672	0.4	2
19	Study on Antheraea Pernyi Silk Fibroin Microspheres Carried Drug. <i>Advanced Materials Research</i> , <b>2013</b> , 796, 117-120	0.5	2
18	Silk Fibroin Sol-Gel Transitions in Different Solutions. <i>Advanced Materials Research</i> , <b>2011</b> , 175-176, 153-157	0.5	2
17	Highly Absorbent Silk Fibroin Protein Xerogel. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 3594-3607	0.5	2
16	Preparation and Mechanical and Optical Properties of SF/Pyrrolidone Blend Film. <i>Materials Science Forum</i> , <b>2015</b> , 815, 327-331	0.4	1
15	Preparation and Characterization of Silk Fibroin/Hydroxyapatite Bilayer Scaffolds. <i>Advanced Materials Research</i> , <b>2011</b> , 415-417, 1810-1815	0.5	1
14	Preparation of Water-Insoluble Antheraea Pernyi Silk Fibroin Films. <i>Advanced Materials Research</i> , <b>2012</b> , 569, 311-315	0.5	1
13	Regenerated Antheraea pernyi Silk Fibroin Nanofiber Film. <i>Advanced Materials Research</i> , <b>2012</b> , 465, 160-164	0.5	1
12	Effect of degumming ph value on electrospinning of silk fibroin. <i>Thermal Science</i> , <b>2014</b> , 18, 1703-1704	1.2	1
11	Study on silk fibroin nanofibers with long length. <i>Modern Physics Letters B</i> , <b>2019</b> , 33, 1950194	1.6	
10	In Vitro Controlled Release of Topically Applied Capsaicin from Silk Hydrogel: A Study Contributed to the Pain Relief System. <i>Materials Science Forum</i> , <b>2015</b> , 815, 332-335	0.4	
9	Corneal Matrix Repair Carrier with Composite Silk Protein Membrane. <i>Materials Science Forum</i> , <b>2015</b> , 815, 424-428	0.4	
8	Performance of cross-linked silk fibroin membrane using tyrosinase. <i>Materials Research Innovations</i> , <b>2015</b> , 19, S10-392-S10-396	1.9	
7	Study on Silk Fibroin D-Mannose Blend Films. <i>Advanced Materials Research</i> , <b>2013</b> , 796, 112-116	0.5	
6	Study on Antheraea Pernyi Silk Fibroin Porous Materials. <i>Advanced Materials Research</i> , <b>2011</b> , 332-334, 1718-1721	0.5	
5	Preparation of Transparent Water-Insoluble Silk Fibroin Films. <i>Advanced Materials Research</i> , <b>2011</b> , 175-176, 79-84	0.5	
4	Preparation and Characteristics of Gradient Silk Fibroin/Hydroxyapatite Porous Composites. <i>Materials Science Forum</i> , <b>2009</b> , 610-613, 1231-1236	0.4	

- 3 Study on Silk Fibroin/ Propylene Glycol Blend Films. *Advanced Materials Research*, **2012**, 627, 785-790 0.5
- 2 Fabrication of flexible conductive silk fibroin/polythiophene membrane and its properties. *E-Polymers*, **2021**, 22, 48-57 2.7
- 1 Synthesis of 1,8-naphthimide-based fluorescent perchloroethylene and its application in the analysis of H<sub>2</sub>O/DMF composition. *Research on Chemical Intermediates*, **2021**, 47, 2217 2.8