Yaopeng Zhang

List of Publications by Citations

112 papers	2,375 citations	29 h-index	42 g-index
115 ext. papers	2,894 ext. citations	6.5 avg, IF	5.31 L-index

#	Paper	IF	Citations
112	Hybrid Silk Fibers Dry-Spun from Regenerated Silk Fibroin/Graphene Oxide Aqueous Solutions. *ACS Applied Materials & Interfaces*, **2016**, 8, 3349-58	9.5	92
111	Electrospinning and rheology of regenerated Bombyx mori silk fibroin aqueous solutions: The effects of pH and concentration. *Polymer*, **2008**, 49, 2880-2885	3.9	78
110	Reinforced and Ultraviolet Resistant Silks from Silkworms Fed with Titanium Dioxide Nanoparticles. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2551-2557	8.3	72
109	Bacterial cellulose nanofibers promote stress and fidelity of 3D-printed silk based hydrogel scaffold with hierarchical pores. *Carbohydrate Polymers*, **2019**, 221, 146-156	10.3	68
108	Significantly reinforced composite fibers electrospun from silk fibroin/carbon nanotube aqueous solutions. *Biomacromolecules*, **2012**, 13, 2859-67	6.9	67
107	3D printing of mesoporous bioactive glass/silk fibroin composite scaffolds for bone tissue engineering. *Materials Science and Engineering C*, **2019**, 103, 109731	8.3	62
106	Recombinant spider silk from aqueous solutions via a bio-inspired microfluidic chip. *Scientific Reports*, **2016**, 6, 36473	4.9	61
105	Tough silk fibers prepared in air using a biomimetic microfluidic chip. *International Journal of Biological Macromolecules*, **2014**, 66, 319-24	7.9	59
104	Preparation of regenerated silk fibroin/silk sericin fibers by coaxial electrospinning. *International Journal of Biological Macromolecules*, **2012**, 51, 980-6	7.9	59
103	Electrospun ultra-fine silk fibroin fibers from aqueous solutions. *Journal of Materials Science*, **2005**, 40, 5359-5363	4.3	58
102	The structure–property relationships of artificial silk fabricated by dry-spinning process. *Journal of Materials Chemistry*, **2012**, 22, 18372		57
101	Electrospun regenerated silk fibroin mats with enhanced mechanical properties. *International Journal of Biological Macromolecules*, **2013**, 56, 83-8	7.9	56
100	Bio-inspired capillary dry spinning of regenerated silk fibroin aqueous solution. *Materials Science and Engineering C*, **2011**, 31, 1602-1608	8.3	56
99	Single Molecular Layer of Silk Nanoribbon as Potential Basic Building Block of Silk Materials. *ACS Nano*, **2018**, 12, 11860-11870	16.7	52
98	Nanoconfined crystallites toughen artificial silk. *Journal of Materials Chemistry B*, **2014**, 2, 1408-1414	7.3	51
97	Evaluation of stretched electrospun silk fibroin matrices seeded with urothelial cells for urethra reconstruction. *Journal of Surgical Research*, **2013**, 184, 774-81	2.5	45
96	Formation and Characterization of Cellulose Membranes from N-Methylmorpholine-N-oxide Solution. *Macromolecular Bioscience*, **2001**, 1, 141-148	5.5	43

95	Tissue-engineered buccal mucosa using silk fibroin matrices for urethral reconstruction in a canine model. *Journal of Surgical Research*, **2014**, 188, 1-7	2.5	42
94	A study on the flow stability of regenerated silk fibroin aqueous solution. *International Journal of Biological Macromolecules*, **2005**, 36, 66-70	7.9	42
93	Pulse-driven bio-triboelectric nanogenerator based on silk nanoribbons. *Nano Energy*, **2020**, 74, 104837	17.1	40
92	Studies on the post-treatment of the dry-spun fibers from regenerated silk fibroin solution: Post-treatment agent and method. *Materials & Design*, **2012**, 36, 816-822		35
91	Vacuum membrane distillation by microchip with temperature gradient. *Lab on A Chip*, **2010**, 10, 899-908	7.2	35
90	Robust silk fibroin/bacterial cellulose nanoribbon composite scaffolds with radial lamellae and intercalation structure for bone regeneration. *Journal of Materials Chemistry B*, **2017**, 5, 3640-3650	7.3	34
89	Solubility and rheological behavior of silk fibroin (Bombyx mori) in N-methyl morpholine N-oxide. *International Journal of Biological Macromolecules*, **2005**, 35, 155-61	7.9	34
88	Mesenchymal Stem Cell-Seeded Regenerated Silk Fibroin Complex Matrices for Liver Regeneration in an Animal Model of Acute Liver Failure. *ACS Applied Materials & Interfaces*, **2017**, 9, 14716-14723	9.5	33
87	Studies on the synthesis and thermal properties of copoly(L-lactic acid/glycolic acid) by direct melt polycondensation. *Journal of Applied Polymer Science*, **2004**, 92, 2163-2168	2.9	33
86	Laminin-Coated Electrospun Regenerated Silk Fibroin Mats Promote Neural Progenitor Cell Proliferation, Differentiation, and Survival. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 190	5.8	31
85	High-Performance Microsupercapacitors Based on Bioinspired Graphene Microfibers. *ACS Applied Materials & Interfaces*, **2018**, 10, 10157-10164	9.5	30
84	Posttreatment of the dry-spun fibers obtained from regenerated silk fibroin aqueous solution in ethanol aqueous solution. *Journal of Materials Research*, **2011**, 26, 1100-1106	2.5	30
83	Dual-factor loaded functional silk fibroin scaffolds for peripheral nerve regeneration with the aid of neovascularization. *RSC Advances*, **2016**, 6, 7683-7691	3.7	29
82	Silk materials for medical, electronic and optical applications. *Science China Technological Sciences*, **2019**, 62, 903-918	3.5	28
81	Graphene trapped silk scaffolds integrate high conductivity and stability. *Carbon*, **2019**, 148, 16-27	10.4	27
80	Silk Fibroin-Based Scaffolds with Controlled Delivery Order of VEGF and BDNF for Cavernous Nerve Regeneration. *ACS Biomaterials Science and Engineering*, **2016**, 2, 2018-2025	5.5	27
79	Role of humidity on the structures and properties of regenerated silk fibers. *Progress in Natural Science: Materials International*, **2015**, 25, 430-436	3.6	26
78	Silk scaffolds with gradient pore structure and improved cell infiltration performance. *Materials Science and Engineering C*, **2019**, 94, 179-189	8.3	26

77	Tissue performance of bladder following stretched electrospun silk fibroin matrix and bladder acellular matrix implantation in a rabbit model. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 9-16	5.4	25
76	Strong Silk Fibers Containing Cellulose Nanofibers Generated by a Bioinspired Microfluidic Chip. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14765-14774	8.3	25
75	Vacuum membrane distillation on a microfluidic chip. *Chemical Communications*, **2009**, 2750-2	5.8	25
74	Studies on spinning and rheological behaviors of regenerated silk fibroin/N-methylmorpholine-N-oxide□H2O solutions. *Journal of Materials Science*, **2005**, 40, 5355-5358	4.3	24
73	Lamellar and fibrillar structure evolution of poly(ethylene terephthalate) fiber in thermal annealing. *Polymer*, **2016**, 105, 157-166	3.9	23
72	Employing Lactam Copolymerization Strategy to Effectively Achieve Pure Organic Room-Temperature Phosphorescence in Amorphous State. *Advanced Optical Materials*, **2019**, 7, 1901277	8.1	22
71	The Development of Fibers That Mimic the Core□Sheath and Spindle-Knot Morphology of Artificial Silk Using Microfluidic Devices. *Macromolecular Materials and Engineering*, **2017**, 302, 1700102	3.9	22
70	In vitro studies on the structure and properties of silk fibroin aqueous solutions in silkworm. *International Journal of Biological Macromolecules*, **2013**, 62, 162-6	7.9	21
69	A microchannel concentrator controlled by integral thermoresponsive valves. *Sensors and Actuators B: Chemical*, **2008**, 129, 481-486	8.5	21
68	A bio-inspired microfluidic concentrator for regenerated silk fibroin solution. *Sensors and Actuators B: Chemical*, **2012**, 162, 435-440	8.5	20
67	A simple process for dry spinning of regenerated silk fibroin aqueous solution. *Journal of Materials Research*, **2013**, 28, 2897-2902	2.5	20
66	3D printed hydrogels with oxidized cellulose nanofibers and silk fibroin for the proliferation of lung epithelial stem cells. *Cellulose*, **2020**, 28, 1-17	5.5	20
65	Bladder Acellular Matrix Graft Reinforced Silk Fibroin Composite Scaffolds Loaded VEGF with Aligned Electrospun Fibers in Multiple Layers. *ACS Biomaterials Science and Engineering*, **2015**, 1, 238-246	5.5	19
64	Tough and VEGF-releasing scaffolds composed of artificial silk fibroin mats and a natural acellular matrix. *RSC Advances*, **2015**, 5, 16748-16758	3.7	19
63	Super-strong and Intrinsically Fluorescent Silkworm Silk from Carbon Nanodots Feeding. *Nano-Micro Letters*, **2019**, 11, 75	19.5	18
62	Influence of □ray radiation on the structure and properties of paper grade bamboo pulp. *Carbohydrate Polymers*, **2010**, 81, 114-119	10.3	18
61	Silk fibroin tissue engineering scaffolds with aligned electrospun fibers in multiple layers. *RSC Advances*, **2014**, 4, 47570-47575	3.7	17
60	Intrinsically Fluorescent Silks from Silkworms Fed with Rare-Earth Upconverting Phosphors. *ACS Biomaterials Science and Engineering*, **2018**, 4, 4021-4027	5.5	17

59	A flap-type hydrogel actuator with fast responses to temperature. *Smart Materials and Structures*, **2007**, 16, 2175-2182	3.4	16
58	Strain-induced structural evolution during drawing of poly(ethylene terephthalate) fiber at different temperatures by in situ synchrotron SAXS and WAXD. *Polymer*, **2017**, 119, 185-194	3.9	14
57	Antheraea pernyi silk fiber: a potential resource for artificially biospinning spider dragline silk. *Journal of Biomedicine and Biotechnology*, **2010**, 2010, 683962		14
56	Low-loss light-guiding, strong silk generated by a bioinspired microfluidic chip. *Chemical Engineering Journal*, **2021**, 405, 126793	14.7	14
55	Characterization of bladder acellular matrix hydrogel with inherent bioactive factors. *Materials Science and Engineering C*, **2017**, 77, 184-189	8.3	13
54	Preparation and characterization of electrospun silk fibroin/sericin blend fibers. *Journal of Materials Research*, **2011**, 26, 2931-2937	2.5	13
53	Microstructural evolution of regenerated silk fibroin/graphene oxide hybrid fibers under tensile deformation. *RSC Advances*, **2017**, 7, 3108-3116	3.7	12
52	The influence of short chain branch on formation of shear induced crystals in bimodal polyethylene at high shear temperatures. *European Polymer Journal*, **2018**, 105, 359-369	5.2	12
51	Structure and interaction of silk fibroin and graphene oxide in concentrated solution under shear. *International Journal of Biological Macromolecules*, **2018**, 107, 2590-2597	7.9	12
50	Insights into process–structure–property relationships of poly(ethylene terephthalate) industrial yarns by synchrotron radiation WAXD and SAXS. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	11
49	Tunable Structures and Properties of Electrospun Regenerated Silk Fibroin Mats Annealed in Water Vapor at Different Times and Temperatures. *Journal of Nanomaterials*, **2014**, 2014, 1-7	3.2	11
48	The bioaerosols emitted from toilet and wastewater treatment plant: a literature review. *Environmental Science and Pollution Research*, **2021**, 28, 2509-2521	5.1	11
47	All-Organic Conductive Biomaterial as an Electroactive Cell Interface. *ACS Applied Materials & Interfaces*, **2018**, 10, 35547-35556	9.5	11
46	Highly oriented lamellar polyaniline with short-range disorder for enhanced electrochromic performance. *Chemical Engineering Journal*, **2021**, 417, 128126	14.7	11
45	Integrated microfluidic device for the spherical hydrogel pH sensor fabrication. *RSC Advances*, **2016** , 6, 11204-11210	3.7	10
44	Prediction of molecular weight distribution of cellulose by using the rheological method. *Journal of Applied Polymer Science*, **2004**, 94, 598-603	2.9	10
43	A comparative study of bamboo Lyocell fiber and other regenerated cellulose fibers 2nd ICC 2007, Tokyo, Japan, October 25–29, 2007. *Holzforschung*, **2009**, 63,	2	9
42	Atomic force microscopy of cellulose membranes prepared from the N-methylmorpholine-N-oxide/water solvent system. *Journal of Applied Polymer Science*, **2002**, 86, 3389-3395	2.9	9

41	Application of Fenton pre-oxidation, Ca-induced coagulation, and sludge reclamation for enhanced treatment of ultra-high concentration poly(vinyl alcohol) wastewater. *Journal of Hazardous Materials*, **2020**, 389, 121866	12.8	9
40	Prevascularized bladder acellular matrix hydrogel/silk fibroin composite scaffolds promote the regeneration of urethra in a rabbit model. *Biomedical Materials (Bristol)*, **2018**, 14, 015002	3.5	9
39	Silk fibroin/reduced graphene oxide composite mats with enhanced mechanical properties and conductivity for tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2021**, 197, 111444	6	9
38	Influence of shear on the structures and properties of regenerated silk fibroin aqueous solutions. *RSC Advances*, **2015**, 5, 62936-62940	3.7	8
37	Biomaterial-Based Scaffolds as Antibacterial Suture Materials. *ACS Biomaterials Science and Engineering*, **2020**, 6, 3154-3161	5.5	8
36	Determination of Molecular Weight of Silk Fibroin by Non-Gel Sieving Capillary Electrophoresis. *Journal of AOAC INTERNATIONAL*, **2010**, 93, 1143-1147	1.7	8
35	Natural polymer-based bioabsorbable conducting wires for implantable bioelectronic devices. *Journal of Materials Chemistry A*, **2020**, 8, 25323-25335	13	8
34	Electrospun regenerated silk fibroin scaffolds with improved pore size, mechanical properties and cytocompatibility using mesh collectors. *Journal of Materials Chemistry B*, **2021**, 9, 5514-5527	7.3	8
33	Fabrication and characterization of regenerated Antheraea pernyi silk fibroin scaffolds for Schwann cell culturing. *European Polymer Journal*, **2019**, 117, 123-133	5.2	7
32	Synthesis of novel thioxanthone-containing macromolecular photosensitizer and its photocatalytic property. *Polymer*, **2019**, 174, 101-108	3.9	7
31	Super-strong and uniform fluorescent composite silk from trace AIE nanoparticle feeding. *Composites Communications*, **2020**, 21, 100414	6.7	6
30	Water-stable and finasteride-loaded polyvinyl alcohol nanofibrous particles with sustained drug release for improved prostatic artery embolization - In vitro and in vivo evaluation. *Materials Science and Engineering C*, **2020**, 115, 111107	8.3	5
29	Shear induced crystallization of bimodal and unimodal high density polyethylene. *Polymer*, **2018**, 153, 223-231	3.9	5
28	Low-Power and Tunable-Performance Biomemristor Based on Silk Fibroin. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3459-3468	5.5	5
27	Flow Analysis of Regenerated Silk Fibroin/Cellulose Nanofiber Suspensions via a Bioinspired Microfluidic Chip. *Advanced Materials Technologies*, **2021**, 6, 2100124	6.8	5
26	3D-printed strong hybrid materials with low shrinkage for dental restoration. *Composites Science and Technology*, **2021**, 213, 108902	8.6	5
25	Dual-wavelength fluorescent anti-counterfeiting fibers with skin-core structure. *Journal of Polymer Engineering*, **2020**, 40, 143-151	1.4	4
24	Effects of compound stimulation of fluid shear stress plus ultrasound on stem cell proliferation and osteogenesis. *International Journal of Energy Production and Management*, **2021**, 8, rbab066	5.3	4

23	Unconventional Spidroin Assemblies in Aqueous Dope for Spinning into Tough Synthetic Fibers. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3608-3617	5.5	4
22	Highly Strong and Conductive Carbon Fibers Originated from Bioinspired Lignin/Nanocellulose Precursors Obtained by Flow-Assisted Alignment and In Situ Interfacial Complexation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 2591-2599	8.3	4
21	Biodegradable silk fibroin-based bio-piezoelectric/triboelectric nanogenerators as self-powered electronic devices. *Nano Energy*, **2022**, 96, 107101	17.1	4
20	Sustained release of stromal cell-derived factor-1 alpha from silk fibroin microfiber promotes urethral reconstruction in rabbits. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 1760-1773	5.4	3
19	Effects of environment parameters on sol-gel transition and dry-spinnability of regenerated silk fibroin aqueous solution. *Fibers and Polymers*, **2014**, 15, 540-546	2	3
18	Transparent Conductive Silk Film with a PEDOT-OH Nano Layer as an Electroactive Cell Interface. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1202-1215	5.5	3
17	Selective adsorption and fluorescence sensing of tetracycline by Zn-mediated chitosan non-woven fabric. *Journal of Colloid and Interface Science*, **2021**, 603, 418-429	9.3	3
16	Bio-memristors based on silk fibroin. *Materials Horizons*, **2021**, 8, 3281-3294	14.4	3
15	Effects of dynamic mechanical stimulations on the regeneration of in vitro and in vivo cartilage tissue based on silk fibroin scaffold. *Composites Part B: Engineering*, **2022**, 235, 109764	10	3
14	3D-Printed Strong Dental Crown with Multi-Scale Ordered Architecture, High-Precision, and Bioactivity.. *Advanced Science*, **2021**, e2104001	13.6	3
13	Nd(OTf)3-catalyzed intramolecular-intermolecular cascade cyclization reaction: An access to phenanthro[9,10-b]furan derivatives. *Journal of Saudi Chemical Society*, **2019**, 23, 1041-1048	4.3	2
12	Angiogenesis Potential of Bladder Acellular Matrix Hydrogel by Compounding Endothelial Cells.. *ACS Applied Bio Materials*, **2019**, 2, 1158-1167	4.1	2
11	The Chain Orientation of Cellulose Flat and Tubular Films Prepared from N-Methylmorpholine N-Oxide Solutions. *Polymer Journal*, **2002**, 34, 666-673	2.7	2
10	3D Printed Gelatin Scaffold with Improved Shape Fidelity and Cytocompatibility by Using Antheraea pernyi Silk Fibroin Nanofibers. *Advanced Fiber Materials*,1	10.9	2
9	One-Step Approach to Prepare Transparent Conductive Regenerated Silk Fibroin/PEDOT:PSS Films for Electroactive Cell Culture.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	2
8	Artificial Silk Materials with Enhanced Mechanical Properties and Controllable Structures. *International Journal of the Society of Materials Engineering for Resources*, **2014**, 20, 1-5	0	1
7	The Analyses of High Infectivity Mechanism of SARS-CoV-2 and Its Variants. *Covid*, **2021**, 1, 666-673		1
6	Inkjet printing of 2D polyaniline for fabricating flexible and patterned electrochromic devices. *Science China Materials*,	7.1	1

5	Iron-catalyzed synthesis of phenanthrenes via intramolecular hydroarylation of arene-alkynes. *Journal of Saudi Chemical Society*, **2019**, 23, 967-972	4.3	0
4	Electrospun regenerated silk fibroin is a promising biomaterial for the maintenance of inner ear progenitors in vitro. *Journal of Biomaterials Applications*, **2021**, 8853282211051501	2.9	0
3	A trade-off between antifouling and the electrochemical stabilities of PEDOTs. *Journal of Materials Chemistry B*, **2021**, 9, 2717-2726	7.3	0
2	High-Frequency Synchronization Improves Firing Rate Contrast and Information Transmission Efficiency in E/I Neuronal Networks. *Neural Plasticity*, **2020**, 2020, 8823111	3.3	
1	Role of angiogenesis in bladder tissue engineering **2022**, 463-490		