

Xin Chen

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.

162
papers

8,012
citations

50
h-index

83
g-index

169
ext. papers

9,086
ext. citations

6.3
avg, IF

6.32
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 162 | Enhancement of the Mechanical Properties of Poly(lactic acid)/Epoxidized Soybean Oil Blends by the Addition of 3-Aminophenylboronic Acid. <i>ACS Omega</i> , 2022 , 7, 17841-17848 | 3.9 | |
| 161 | Application of an ultrasound semi-quantitative assessment in the degradation of silk fibroin scaffolds in vivo. <i>BioMedical Engineering OnLine</i> , 2021 , 20, 48 | 4.1 | |
| 160 | Crystallization, Mechanical, and Antimicrobial Properties of Diallyl Cyanuric Derivative-Grafted Polypropylene. <i>ACS Omega</i> , 2021 , 6, 12794-12800 | 3.9 | 1 |
| 159 | Poly(vinyl alcohol) Hydrogels with Integrated Toughness, Conductivity, and Freezing Tolerance Based on Ionic Liquid/Water Binary Solvent Systems. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29008-29020 | 9.5 | 12 |
| 158 | Silk microfibrinous mats with long-lasting antimicrobial function. <i>Journal of Materials Science and Technology</i> , 2021 , 63, 203-209 | 9.1 | 6 |
| 157 | Silk-based hybrid microfibrinous mats as guided bone regeneration membranes. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2025-2032 | 7.3 | 12 |
| 156 | Silk-based pressure/temperature sensing bimodal ionotronic skin with stimulus discriminability and low temperature workability. <i>Chemical Engineering Journal</i> , 2021 , 422, 130091 | 14.7 | 12 |
| 155 | Water-Resistant Zein-Based Adhesives. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7668-7679 | 8.3 | 15 |
| 154 | Intelligent Silk Fibroin Ionotronic Skin for Temperature Sensing. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000430 | 6.8 | 23 |
| 153 | Colorless Silk/Copper Sulfide Hybrid Fiber and Fabric with Spontaneous Heating Property under Sunlight. <i>Biomacromolecules</i> , 2020 , 21, 1596-1603 | 6.9 | 10 |
| 152 | Direct Observation of Native Silk Fibroin Conformation in Silk Gland of Silkworm. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1874-1879 | 5.5 | 9 |
| 151 | Artificial ligament made from silk protein/Laponite hybrid fibers. <i>Acta Biomaterialia</i> , 2020 , 106, 102-113 | 10.8 | 22 |
| 150 | Physically Cross-Linked Silk Fibroin-Based Tough Hydrogel Electrolyte with Exceptional Water Retention and Freezing Tolerance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25353-25362 | 9.5 | 24 |
| 149 | Effect of stress on the molecular structure and mechanical properties of supercontracted spider dragline silks. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 168-176 | 7.3 | 6 |
| 148 | Preparation and characterization of antibacterial poly(lactic acid) nanocomposites with N-halamine modified silica. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1468-1477 | 7.9 | 16 |
| 147 | Structural Changes in Spider Dragline Silk after Repeated Supercontraction-Stretching Processes. <i>Biomacromolecules</i> , 2020 , 21, 5306-5314 | 6.9 | 3 |
| 146 | Preparing 3D-printable silk fibroin hydrogels with robustness by a two-step crosslinking method.. <i>RSC Advances</i> , 2020 , 10, 27225-27234 | 3.7 | 7 |

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| 145 | Synthesis of novel multi-hydroxyl -halamine precursors based on barbituric acid and their applications in antibacterial poly(ethylene terephthalate) (PET) materials. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 8695-8701 | 7.3 | 9 |
| 144 | Understanding Secondary Structures of Silk Materials via Micro- and Nano-Infrared Spectroscopies. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3161-3183 | 5.5 | 25 |
| 143 | The regenerated silk fibroin hydrogel with designed architecture bioprinted by its microhydrogel. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4328-4337 | 7.3 | 21 |
| 142 | Dual-loaded, long-term sustained drug releasing and thixotropic hydrogel for localized chemotherapy of cancer. <i>Biomaterials Science</i> , 2019 , 7, 2975-2985 | 7.4 | 15 |
| 141 | Facile Dissolution of Zein Using a Common Solvent Dimethyl Sulfoxide. <i>Langmuir</i> , 2019 , 35, 6640-6649 | 4 | 9 |
| 140 | Morphology and Properties of a New Biodegradable Material Prepared from Zein and Poly(butylene adipate-terephthalate) by Reactive Blending. <i>ACS Omega</i> , 2019 , 4, 5609-5616 | 3.9 | 11 |
| 139 | Pea Protein/Gold Nanocluster/Indocyanine Green Ternary Hybrid for Near-Infrared Fluorescence/Computed Tomography Dual-Modal Imaging and Synergistic Photodynamic/Photothermal Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4799-4807 | 5.5 | 16 |
| 138 | Concentration-dependent conformation transition of regenerated silk fibroin induced by graphene oxide nanosheets incorporation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1506-1515 ^{2.6} | 2.6 | 1 |
| 137 | Cryogenic toughness of natural silk and a proposed structure-function relationship. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2507-2513 | 7.8 | 11 |
| 136 | Chondrocytes cultured in silk-based biomaterials maintain function and cell morphology. <i>International Journal of Artificial Organs</i> , 2019 , 42, 31-41 | 1.9 | 3 |
| 135 | Application of far-infrared spectroscopy to the structural identification of protein materials. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11643-11648 | 3.6 | 6 |
| 134 | Understanding the Mechanical Properties and Structure Transition of <i>Antheraea pernyi</i> Silk Fiber Induced by Its Contraction. <i>Biomacromolecules</i> , 2018 , 19, 1999-2006 | 6.9 | 18 |
| 133 | Size-controllable dual drug-loaded silk fibroin nanospheres through a facile formation process. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1179-1186 | 7.3 | 17 |
| 132 | The Silk Textile Embedded in Silk Fibroin Composite: Preparation and Properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018 , 36, 1043-1046 | 3.5 | 3 |
| 131 | Silk Fibroin Acts as a Self-Emulsifier to Prepare Hierarchically Porous Silk Fibroin Scaffolds through Emulsion-Ice Dual Templates. <i>ACS Omega</i> , 2018 , 3, 3396-3405 | 3.9 | 8 |
| 130 | Design of injectable agar-based composite hydrogel for multi-mode tumor therapy. <i>Carbohydrate Polymers</i> , 2018 , 180, 112-121 | 10.3 | 44 |
| 129 | Plant Protein-Directed Synthesis of Luminescent Gold Nanocluster Hybrids for Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 83-90 | 9.5 | 49 |
| 128 | Environmentally responsive composite films fabricated using silk nanofibrils and silver nanowires. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12940-12947 | 7.1 | 10 |

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| 127 | Bandgap Engineered Polypyrrole-Polydopamine Hybrid with Intrinsic Raman and Photoacoustic Imaging Contrasts. <i>Nano Letters</i> , 2018 , 18, 7485-7493 | 11.5 | 22 |
| 126 | Influence of photoinitiator concentration and irradiation time on the crosslinking performance of visible-light activated pullulan-HEMA hydrogels. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1884-1892 | 7.9 | 12 |
| 125 | Fabrication of Air-Stable and Conductive Silk Fibroin Gels. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38466-38475 | 9.5 | 29 |
| 124 | A Robust, Resilient, and Multi-Functional Soy Protein-Based Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13730-13738 | 8.3 | 13 |
| 123 | Influence of degree of substitution and folic acid coinitorator on pullulan-HEMA hydrogel properties crosslinked under visible-light initiating system. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 1175-1185 | 7.9 | 13 |
| 122 | Soy protein-based polyethylenimine hydrogel and its high selectivity for copper ion removal in wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4163-4171 | 13 | 113 |
| 121 | A Recycling-Free Nanocatalyst System: The Stabilization of In Situ-Reduced Noble Metal Nanoparticles on Silicone Nanofilaments via a Mussel-Inspired Approach. <i>ACS Catalysis</i> , 2017 , 7, 2412-2418 | 13.1 | 16 |
| 120 | A review on polymeric hydrogel membranes for wound dressing applications: PVA-based hydrogel dressings. <i>Journal of Advanced Research</i> , 2017 , 8, 217-233 | 13 | 763 |
| 119 | A facile fabrication of silk/MoS hybrids for Photothermal therapy. <i>Materials Science and Engineering C</i> , 2017 , 79, 123-129 | 8.3 | 23 |
| 118 | Enhancing Mechanical Properties of Silk Fibroin Hydrogel through Restricting the Growth of Sheet Domains. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17489-17498 | 9.5 | 127 |
| 117 | Efficacy of silk fibroin-nano silver against biofilms in a rabbit model of sinusitis. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2933-2939 | 7.3 | 9 |
| 116 | Precise correlation of macroscopic mechanical properties and microscopic structures of animal silks-using <i>Antheraea pernyi</i> silkworm silk as an example. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6042-6048 | 7.3 | 16 |
| 115 | Exploration of the nature of a unique natural polymer-based thermosensitive hydrogel. <i>Soft Matter</i> , 2016 , 12, 492-9 | 3.6 | 10 |
| 114 | One-step synthesis of soy protein/graphene nanocomposites and their application in photothermal therapy. <i>Materials Science and Engineering C</i> , 2016 , 68, 798-804 | 8.3 | 16 |
| 113 | Structure and properties of various hybrids fabricated by silk nanofibrils and nanohydroxyapatite. <i>Nanoscale</i> , 2016 , 8, 20096-20102 | 7.7 | 28 |
| 112 | Sol-Gel Transition of Regenerated Silk Fibroins in Ionic Liquid/Water Mixtures. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 12-18 | 5.5 | 20 |
| 111 | Enhancing the Gelation and Bioactivity of Injectable Silk Fibroin Hydrogel with Laponite Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9619-28 | 9.5 | 90 |
| 110 | Intelligent Janus nanoparticles for intracellular real-time monitoring of dual drug release. <i>Nanoscale</i> , 2016 , 8, 6754-60 | 7.7 | 38 |

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| 109 | Robust Protein Hydrogels from Silkworm Silk. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1500-1506 | 8.5 | 53 |
| 108 | Exploration of the tight structural-mechanical relationship in mulberry and non-mulberry silkworm silks. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4337-4347 | 7.3 | 39 |
| 107 | Formation of different gold nanostructures by silk nanofibrils. <i>Materials Science and Engineering C</i> , 2016 , 64, 376-382 | 8.3 | 12 |
| 106 | Soy protein-directed one-pot synthesis of gold nanomaterials and their functional conductive devices. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3643-3650 | 7.3 | 21 |
| 105 | Tamoxifen-loaded silk fibroin electrospun fibers. <i>Materials Letters</i> , 2016 , 178, 31-34 | 3.3 | 17 |
| 104 | Multi-responsive polyethylene-polyamine/gelatin hydrogel induced by non-covalent interactions. <i>RSC Advances</i> , 2016 , 6, 48661-48665 | 3.7 | 5 |
| 103 | Insights into Silk Formation Process: Correlation of Mechanical Properties and Structural Evolution during Artificial Spinning of Silk Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1992-2000 | 5.5 | 46 |
| 102 | Selective chemical modification of soy protein for a tough and applicable plant protein-based material. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5241-5248 | 7.3 | 17 |
| 101 | Tough protein-carbon nanotube hybrid fibers comparable to natural spider silks. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3940-3947 | 7.3 | 50 |
| 100 | Determination of phase behaviour in all protein blend materials with multivariate FTIR imaging technique. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 834-839 | 7.3 | 14 |
| 99 | Graphene/silk fibroin based carbon nanocomposites for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 773-781 | 13 | 61 |
| 98 | Crosslinked poly(vinyl alcohol) hydrogels for wound dressing applications: A review of remarkably blended polymers. <i>Arabian Journal of Chemistry</i> , 2015 , 8, 1-14 | 5.9 | 380 |
| 97 | Directed Growth of Silk Nanofibrils on Graphene and Their Hybrid Nanocomposites.. <i>ACS Macro Letters</i> , 2014 , 3, 146-152 | 6.6 | 106 |
| 96 | Protein biomineralized nanoporous inorganic mesocrystals with tunable hierarchical nanostructures. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15781-6 | 16.4 | 53 |
| 95 | Structural determination of protein-based polymer blends with a promising tool: combination of FTIR and STXM spectroscopic imaging. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7741-8 | 3.6 | 23 |
| 94 | Thixotropic silk nanofibril-based hydrogel with extracellular matrix-like structure. <i>Biomaterials Science</i> , 2014 , 2, 1338-1342 | 7.4 | 49 |
| 93 | Floxuridine-loaded silk fibroin nanospheres. <i>RSC Advances</i> , 2014 , 4, 18171-18177 | 3.7 | 27 |
| 92 | Strong Collagen Hydrogels by Oxidized Dextran Modification. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1318-1324 | 8.3 | 62 |

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| 91 | Ultrafast and reversible thermochromism of a conjugated polymer material based on the assembly of peptide amphiphiles. <i>Chemical Science</i> , 2014 , 5, 4189-4195 | 9.4 | 36 |
| 90 | Modulating materials by orthogonally oriented β -strands: composites of amyloid and silk fibroin fibrils. <i>Advanced Materials</i> , 2014 , 26, 4569-74 | 24 | 103 |
| 89 | Doxorubicin-loaded magnetic silk fibroin nanoparticles for targeted therapy of multidrug-resistant cancer. <i>Advanced Materials</i> , 2014 , 26, 7393-8 | 24 | 181 |
| 88 | Construction of a functional silk-based biomaterial complex with immortalized chondrocytes in vivo. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1071-8 | 5.4 | 7 |
| 87 | Wet-spinning of regenerated silk fiber from aqueous silk fibroin solutions: Influence of calcium ion addition in spinning dope on the performance of regenerated silk fiber. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 29-34 | 3.5 | 20 |
| 86 | Doxorubicin-Loaded Silk Fibroin Nanospheres. <i>Acta Chimica Sinica</i> , 2014 , 72, 1164 | 3.3 | 3 |
| 85 | Synthesis of hierarchical three-dimensional copper oxide nanostructures through a biomineralization-inspired approach. <i>Nanoscale</i> , 2013 , 5, 7991-7 | 7.7 | 31 |
| 84 | Facile fabrication of the porous three-dimensional regenerated silk fibroin scaffolds. <i>Materials Science and Engineering C</i> , 2013 , 33, 3522-9 | 8.3 | 27 |
| 83 | Insight into the structure of single <i>Antheraea pernyi</i> silkworm fibers using synchrotron FTIR microspectroscopy. <i>Biomacromolecules</i> , 2013 , 14, 1885-92 | 6.9 | 71 |
| 82 | Hematite nanostructures synthesized by a silk fibroin-assisted hydrothermal method. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 213-220 | 7.3 | 35 |
| 81 | Characterization and assembly investigation of a dodecapeptide hydrolyzed from the crystalline domain of <i>Bombyx mori</i> silk fibroin. <i>Polymer Chemistry</i> , 2013 , 4, 3005 | 4.9 | 8 |
| 80 | Robust soy protein films obtained by slight chemical modification of polypeptide chains. <i>Polymer Chemistry</i> , 2013 , 4, 5425 | 4.9 | 42 |
| 79 | Fabrication of an alternative regenerated silk fibroin nanofiber and carbonated hydroxyapatite multilayered composite via layer-by-layer. <i>Journal of Materials Science</i> , 2013 , 48, 150-155 | 4.3 | 22 |
| 78 | An antimicrobial film by embedding in situ synthesized silver nanoparticles in soy protein isolate. <i>Materials Letters</i> , 2013 , 95, 142-144 | 3.3 | 46 |
| 77 | Silk fibroin immobilization on poly(ethylene terephthalate) films: comparison of two surface modification methods and their effect on mesenchymal stem cells culture. <i>Materials Science and Engineering C</i> , 2013 , 33, 1409-16 | 8.3 | 22 |
| 76 | Preparation and characterization of transparent silk fibroin/cellulose blend films. <i>Polymer</i> , 2013 , 54, 5035-5042 | 3.9 | 57 |
| 75 | FTIR imaging, a useful method for studying the compatibility of silk fibroin-based polymer blends. <i>Polymer Chemistry</i> , 2013 , 4, 5401 | 4.9 | 48 |
| 74 | Green synthesis of silk fibroin-silver nanoparticle composites with effective antibacterial and biofilm-disrupting properties. <i>Biomacromolecules</i> , 2013 , 14, 4483-8 | 6.9 | 131 |

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| 73 | A pilot study of macrophage responses to silk fibroin particles. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1511-7 | 5.4 | 23 |
| 72 | Conformation transition kinetics and spinnability of regenerated silk fibroin with glycol, glycerol and polyethylene glycol. <i>Materials Letters</i> , 2012 , 81, 13-15 | 3.3 | 27 |
| 71 | Paclitaxel-loaded silk fibroin nanospheres. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 203-10 | 5.4 | 60 |
| 70 | Investigation on thermally-induced conformation transition of soy protein film with variable-temperature FTIR spectroscopy. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2838-2845 | 2.9 | 9 |
| 69 | Injectable thixotropic hydrogel comprising regenerated silk fibroin and hydroxypropylcellulose. <i>Soft Matter</i> , 2012 , 8, 2875 | 3.6 | 42 |
| 68 | A hierarchical adsorption material by incorporating mesoporous carbon into macroporous chitosan membranes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11908 | | 26 |
| 67 | Facile fabrication of CuO mesoporous nanosheet cluster array electrodes with super lithium-storage properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13637 | | 90 |
| 66 | Quasi one-dimensional assembly of gold nanoparticles templated by a pH-sensitive peptide amphiphile from silk fibroin. <i>RSC Advances</i> , 2012 , 2, 5599 | 3.7 | 7 |
| 65 | Chitosan-based membrane chromatography for protein adsorption and separation. <i>Materials Science and Engineering C</i> , 2012 , 32, 1669-73 | 8.3 | 16 |
| 64 | Investigation of rheological properties and conformation of silk fibroin in the solution of AmimCl. <i>Biomacromolecules</i> , 2012 , 13, 1875-81 | 6.9 | 72 |
| 63 | Conformation transition of Bombyx mori silk protein monitored by time-dependent fourier transform infrared (FT-IR) spectroscopy: effect of organic solvent. <i>Applied Spectroscopy</i> , 2012 , 66, 696-93.1 | | 28 |
| 62 | PREPARATION AND ANTIMICROBIAL PROPERTIES OF PVA/TANNIN BLEND FILMS. <i>Acta Polymerica Sinica</i> , 2012 , 012, 125-130 | | 2 |
| 61 | Crystallization of calcium carbonate on chitosan substrates in the presence of regenerated silk fibroin. <i>Langmuir</i> , 2011 , 27, 2804-10 | 4 | 31 |
| 60 | Understanding the Mechanical Properties of Antheraea Pernyi Silk From Primary Structure to Condensed Structure of the Protein. <i>Advanced Functional Materials</i> , 2011 , 21, 729-737 | 15.6 | 94 |
| 59 | Self-assembly of a peptide amphiphile based on hydrolysed Bombyx mori silk fibroin. <i>Chemical Communications</i> , 2011 , 47, 10296-8 | 5.8 | 38 |
| 58 | Synergistic interactions during thermosensitive chitosan-β-glycerophosphate hydrogel formation. <i>RSC Advances</i> , 2011 , 1, 282 | 3.7 | 28 |
| 57 | Synchrotron FTIR microspectroscopy of single natural silk fibers. <i>Biomacromolecules</i> , 2011 , 12, 3344-9 | 6.9 | 204 |
| 56 | Natural electroactive hydrogel from soy protein isolation. <i>Biomacromolecules</i> , 2010 , 11, 3638-43 | 6.9 | 43 |

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| 55 | Wet-spinning of regenerated silk fiber from aqueous silk fibroin solution: discussion of spinning parameters. <i>Biomacromolecules</i> , 2010 , 11, 1-5 | 6.9 | 106 |
| 54 | Formation kinetics and fractal characteristics of regenerated silk fibroin alcogel developed from nanofibrillar network. <i>Soft Matter</i> , 2010 , 6, 1217 | 3.6 | 35 |
| 53 | Morphology and mechanical properties of soy protein scaffolds made by directional freezing. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a | 2.9 | 5 |
| 52 | Kinetics of thermally-induced conformational transitions in soybean protein films. <i>Polymer</i> , 2010 , 51, 2410-2416 | 3.9 | 19 |
| 51 | The preparation of high performance silk fiber/fibroin composite. <i>Polymer</i> , 2010 , 51, 4843-4849 | 3.9 | 32 |
| 50 | Correlation between structural and dynamic mechanical transitions of regenerated silk fibroin. <i>Polymer</i> , 2010 , 51, 6278-6283 | 3.9 | 32 |
| 49 | PREPARATION OF HIGH MOLECULAR WEIGHT SOY PROTEIN AQUEOUS SOLUTION AND SEPARATION OF ITS MAIN COMPONENTS. <i>Acta Polymerica Sinica</i> , 2010 , 010, 250-254 | | 6 |
| 48 | Silk Fibers Extruded Artificially from Aqueous Solutions of Regenerated Bombyx mori Silk Fibroin are Tougher than their Natural Counterparts. <i>Advanced Materials</i> , 2009 , 21, 366-370 | 24 | 160 |
| 47 | Microspheres of calcium carbonate composite regulated by sodium polyacrylates with various ways. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3686-3692 | 2.9 | 9 |
| 46 | Protein adsorption and separation with chitosan-based amphoteric membranes. <i>Polymer</i> , 2009 , 50, 12573-1263 | 3.9 | 64 |
| 45 | Electrospinning of reconstituted silk fiber from aqueous silk fibroin solution. <i>Materials Science and Engineering C</i> , 2009 , 29, 2270-2274 | 8.3 | 73 |
| 44 | The effect of water on the conformation transition of Bombyx mori silk fibroin. <i>Vibrational Spectroscopy</i> , 2009 , 51, 105-109 | 2.1 | 47 |
| 43 | A kinetic model for thermal degradation in polymers with specific application to proteins. <i>Polymer</i> , 2009 , 50, 1814-1818 | 3.9 | 18 |
| 42 | Two distinct beta-sheet fibrils from silk protein. <i>Chemical Communications</i> , 2009 , 7506-8 | 5.8 | 84 |
| 41 | Fibrin formation during the conformation transition in silk fibroin. <i>Soft Matter</i> , 2009 , 5, 2777 | 3.6 | 60 |
| 40 | CU(II)-INDUCED CONFORMATION TRANSITION OF REGENERATED SILK FIBROIN IN AQUEOUS SOLUTIONS. <i>Acta Polymerica Sinica</i> , 2009 , 009, 1056-1061 | | 1 |
| 39 | Electrical behavior of a natural polyelectrolyte hydrogel: chitosan/carboxymethylcellulose hydrogel. <i>Biomacromolecules</i> , 2008 , 9, 1208-13 | 6.9 | 125 |
| 38 | Radiologic and histologic characterization of silk fibroin as scaffold coating for rabbit tracheal defect repair. <i>Otolaryngology - Head and Neck Surgery</i> , 2008 , 139, 256-61 | 5.5 | 28 |

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|----|---|-----|-----|
| 37 | Templating effect of silk fibers in the oriented deposition of aragonite. <i>Chemical Communications</i> , 2008 , 5511-3 | 5.8 | 26 |
| 36 | Biomimetic synthesis of silica with chitosan-mediated morphology. <i>Small</i> , 2008 , 4, 755-8 | 11 | 27 |
| 35 | Protein adsorption and separation on amphoteric chitosan/carboxymethylcellulose membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 694-700 | 5.4 | 21 |
| 34 | Chitosan-based electroactive hydrogel. <i>Polymer</i> , 2008 , 49, 5520-5525 | 3.9 | 71 |
| 33 | The preparation of regenerated silk fibroin microspheres. <i>Soft Matter</i> , 2007 , 3, 910-915 | 3.6 | 129 |
| 32 | Conformation transition kinetics of Bombyx mori silk protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 68, 223-31 | 4.2 | 154 |
| 31 | X-ray photoelectron spectroscopic and Raman analysis of silk fibroin-Cu(II) films. <i>Biopolymers</i> , 2006 , 82, 144-51 | 2.2 | 27 |
| 30 | The spinning processes for spider silk. <i>Soft Matter</i> , 2006 , 2, 448-451 | 3.6 | 62 |
| 29 | Synthesis and characterization of multiblock copolymers based on spider dragline silk proteins. <i>Biomacromolecules</i> , 2006 , 7, 2415-9 | 6.9 | 46 |
| 28 | Near-infrared characterization on the secondary structure of regenerated Bombyx mori silk fibroin. <i>Applied Spectroscopy</i> , 2006 , 60, 1438-41 | 3.1 | 18 |
| 27 | Biocompatibility of poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) modified by silk fibroin. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 749-58 | 4.5 | 21 |
| 26 | Further investigation on potassium-induced conformation transition of Nephila spidroin film with two-dimensional infrared correlation spectroscopy. <i>Biomacromolecules</i> , 2005 , 6, 302-8 | 6.9 | 32 |
| 25 | Effect of metallic ions on silk formation in the Mulberry silkworm, Bombyx mori. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16937-45 | 3.4 | 122 |
| 24 | Macroporous chitosan/carboxymethylcellulose blend membranes and their application for lysozyme adsorption. <i>Journal of Applied Polymer Science</i> , 2005 , 96, 1267-1274 | 2.9 | 61 |
| 23 | Toughness of Spider Silk at High and Low Temperatures. <i>Advanced Materials</i> , 2005 , 17, 84-88 | 24 | 93 |
| 22 | Biocompatibility of Poly(epsilon-caprolactone) scaffold modified by chitosan--the fibroblasts proliferation in vitro. <i>Journal of Biomaterials Applications</i> , 2005 , 19, 323-39 | 2.9 | 67 |
| 21 | Silk fibroin modified porous poly(epsilon-caprolactone) scaffold for human fibroblast culture in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 671-7 | 4.5 | 56 |
| 20 | Thermal and crystalline behaviour of silk fibroin/nylon 66 blend films. <i>Polymer</i> , 2004 , 45, 7705-7710 | 3.9 | 43 |

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|----|---|-----|-----|
| 19 | Effect of pH and copper(II) on the conformation transitions of silk fibroin based on EPR, NMR, and Raman spectroscopy. <i>Biochemistry</i> , 2004 , 43, 11932-41 | 3.2 | 92 |
| 18 | Optical spectroscopy to investigate the structure of regenerated Bombyx mori silk fibroin in solution. <i>Biomacromolecules</i> , 2004 , 5, 773-9 | 6.9 | 99 |
| 17 | Preparation and characterization of chitosan/Cu(II) affinity membrane for urea adsorption. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 1108-1112 | 2.9 | 34 |
| 16 | Synthesis and Solid-State Secondary Structure Investigation of Silk Proteinlike Multiblock Polymers. <i>Macromolecules</i> , 2003 , 36, 7508-7512 | 5.5 | 30 |
| 15 | Copper in the silk formation process of Bombyx mori silkworm. <i>FEBS Letters</i> , 2003 , 554, 337-41 | 3.8 | 52 |
| 14 | Conformation transition in silk protein films monitored by time-resolved Fourier transform infrared spectroscopy: effect of potassium ions on Nephila spidroin films. <i>Biochemistry</i> , 2002 , 41, 14944-50 | 3.2 | 83 |
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