

Development of the PVA/CS nanofibers containing silk  
In vitro and in vivo assessment

International Journal of Biological Macromolecules

149, 513-521

DOI: [10.1016/j.ijbiomac.2020.01.139](https://doi.org/10.1016/j.ijbiomac.2020.01.139)

Citation Report

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | An Overview of Biopolymeric Electrospun Nanofibers Based on Polysaccharides for Wound Healing Management. <i>Pharmaceutics</i> , 2020, 12, 983.  | 2.0 | 116       |
| 2  | Effects of the crystallinity on quercetin loaded the Eudragit L-100 electrospun nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111264.   | 2.5 | 13        |
| 3  | Recent Trends in Three-Dimensional Bioinks Based on Alginate for Biomedical Applications. <i>Materials</i> , 2020, 13, 3980.   | 1.3 | 49        |
| 4  | Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , 2020, 9, 1309.  | 2.2 | 199       |
| 5  | Pharmaceutical applications of silk sericin. <i>Annales Pharmaceutiques Francaises</i> , 2020, 78, 469-486.  | 0.4 | 20        |
| 6  | Biological properties of sulfanilamide-loaded alginate hydrogel fibers based on ionic and chemical crosslinking for wound dressings. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 522-529.                               | 3.6 | 37        |
| 7  | Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020, 13, 2153.   | 1.3 | 108       |
| 8  | Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. <i>Materials</i> , 2020, 13, 2663.   | 1.3 | 52        |
| 9  | Silk sericin as a biomaterial for tissue engineering: a review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2021, 70, 1115-1129.  | 1.8 | 47        |
| 10 | Fabrication and characterization of a wound dressing composed of polyvinyl alcohol/nanochitosan/ <i>Artemisia ciniformis</i> extract: An RSM study. <i>Polymer Engineering and Science</i> , 2020, 60, 1459-1473.                                  | 1.5 | 12        |
| 11 | Preparation of Alum-borneol-PVP Drug-loaded Fibers by Electrospinning. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 411-418.   | 1.3 | 9         |
| 12 | Exploiting synergistic effect of externally loaded bFCF and endogenous growth factors for accelerated wound healing using heparin functionalized PCL/gelatin co-spun nanofibrous patches. <i>Chemical Engineering Journal</i> , 2021, 404, 126518. | 6.6 | 51        |
| 13 | Delivery of Therapeutics from Layer-by-Layer Electrospun Nanofiber Matrix for Wound Healing: An Update. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 635-653.  | 1.6 | 81        |
| 14 | Characterization and biological properties of nanostructured clinoenstatite scaffolds for bone tissue engineering applications. <i>Materials Chemistry and Physics</i> , 2021, 259, 123969.  | 2.0 | 15        |
| 15 | Polyvinyl alcohol/chitosan composite hydrogels with sustained release of traditional Tibetan medicine for promoting chronic diabetic wound healing. <i>Biomaterials Science</i> , 2021, 9, 3821-3829.  | 2.6 | 28        |
| 16 | Sericin based nanoformulations: a comprehensive review on molecular mechanisms of interaction with organisms to biological applications. <i>Journal of Nanobiotechnology</i> , 2021, 19, 30.   | 4.2 | 59        |
| 17 | Fabrication and Evaluation of Silk Sericin-Derived Hydrogel for the Release of the Model Drug Berberine. <i>Gels</i> , 2021, 7, 23.  | 2.1 | 13        |
| 18 | Precise engineering of iron oxide nanoparticle-encapsulated protein hydrogel: Implications for cardiac toxicity and ultrasound contrast agents. <i>Process Biochemistry</i> , 2021, 102, 296-303.  | 1.8 | 7         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Fabrication and Characterization of Polyvinylpyrrolidone-Eggshell Membrane-Reduced Graphene Oxide Nanofibers for Tissue Engineering Applications. <i>Polymers</i> , 2021, 13, 913.  | 2.0 | 13        |
| 20 | Fabrication and properties of keratoses/sericin blend films. <i>Polymer Bulletin</i> , 0, , 1.  | 1.7 | 4         |
| 21 | Core-shell chitosan/PVA-based nanofibrous scaffolds loaded with <i>Satureja mutica</i> or <i>Oliveria decumbens</i> essential oils as enhanced antimicrobial wound dressing. <i>International Journal of Pharmaceutics</i> , 2021, 597, 120288.                 | 2.6 | 53        |
| 23 | Recent Biomedical Approaches for Chitosan Based Materials as Drug Delivery Nanocarriers. <i>Pharmaceutics</i> , 2021, 13, 587.  | 2.0 | 55        |
| 24 | Development of silk fibers decorated with the in situ synthesized silver and gold nanoparticles: antimicrobial activity and creatinine adsorption capacity. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 97, 584-596.                         | 2.9 | 8         |
| 25 | Enhanced wound repair ability of arginine-chitosan nanocomposite membrane through the antimicrobial peptides-loaded polydopamine-modified graphene oxide. <i>Journal of Biological Engineering</i> , 2021, 15, 17.  | 2.0 | 25        |
| 26 | Precise Engineering of Lignin Incorporated Dextran/Glycol Nanomaterials for Wound Dressings for the Care of Anorectal Surgery. <i>Journal of Polymers and the Environment</i> , 2022, 30, 206-216.  | 2.4 | 6         |
| 28 | Fabrication of Hybrid Nanofibers from Biopolymers and Poly (Vinyl Alcohol)/Poly ( $\hat{\mu}$ -Caprolactone) for Wound Dressing Applications. <i>Polymers</i> , 2021, 13, 2104.   | 2.0 | 41        |
| 29 | In Vivo Tissue Implantation Model of In Vivo Tissue Implantation Model of Lidocaine (LCH)-Encapsulated Dextran (DEX)/Glycol (GLY) Nanoparticles Delivery for Pain Management. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 1208-1216.                | 0.5 | 2         |
| 30 | A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , 2021, 12, 704.  | 1.4 | 19        |
| 31 | Fabrication of scaffold based on gelatin and polycaprolactone (PCL) for wound dressing application. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 63, 102501.  | 1.4 | 41        |
| 32 | A Novel Aloe Vera-Loaded Ethylcellulose/Hydroxypropyl Methylcellulose Nanofibrous Mat Designed for Wound Healing Application. <i>Journal of Polymers and the Environment</i> , 2022, 30, 867-877.   | 2.4 | 19        |
| 33 | Nanofibrous $\hat{\mu}$ -polycaprolactone scaffolds containing Ag-doped magnetite nanoparticles: Physicochemical characterization and biological testing for wound dressing applications in vitro and in vivo. <i>Bioactive Materials</i> , 2021, 6, 2070-2088. | 8.6 | 50        |
| 34 | Synergic Fabrication of Gold Nanoparticles Embedded Dextran/ Silk Sericin Nanomaterials for the Treatment and Care of Wound Healing. <i>Journal of Cluster Science</i> , 2022, 33, 2147-2156.   | 1.7 | 5         |
| 35 | Bioinspired Design of Sericin/Chitosan/Ag@MOF/GO Hydrogels for Efficiently Combating Resistant Bacteria, Rapid Hemostasis, and Wound Healing. <i>Polymers</i> , 2021, 13, 2812.   | 2.0 | 35        |
| 36 | Biomaterials for Soft Tissue Repair and Regeneration: A Focus on Italian Research in the Field. <i>Pharmaceutics</i> , 2021, 13, 1341.  | 2.0 | 20        |
| 37 | Identification and location of sericin in silkworm with anti-sericin antibodies. <i>International Journal of Biological Macromolecules</i> , 2021, 184, 522-529.  | 3.6 | 4         |
| 38 | Additive Manufacturing of Biopolymers for Tissue Engineering and Regenerative Medicine: An Overview, Potential Applications, Advancements, and Trends. <i>International Journal of Polymer Science</i> , 2021, 2021, 1-20.                                      | 1.2 | 70        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 39 | Polymeric wound dressings, an insight into polysaccharide-based electrospun membranes. Applied Materials Today, 2021, 24, 101148.   | 2.3 | 45        |
| 40 | Recent Advances in Applications of Ceramic Nanofibers. , 0, , .   |     | 0         |
| 41 | Polyvinyl Alcohol/Chitosan and Polyvinyl Alcohol/Ag@MOF Bilayer Hydrogel for Tissue Engineering Applications. Polymers, 2021, 13, 3151.   | 2.0 | 12        |
| 42 | Bioactive silk fibroin scaffold with nanoarchitecture for wound healing. Composites Part B: Engineering, 2021, 224, 109165.   | 5.9 | 52        |
| 43 | Synergistic effect of sericin and keratin in gelatin based nanofibers for in vitro applications. International Journal of Biological Macromolecules, 2021, 190, 375-381.  | 3.6 | 42        |
| 44 | Dual bio-active factors with adhesion function modified electrospun fibrous scaffold for skin wound and infections therapeutics. Scientific Reports, 2021, 11, 457.   | 1.6 | 18        |
| 45 | Hemostatic Electrospun Nanocomposite Containing Poly(lactic acid)/Halloysite Nanotube Functionalized by Poly(amidoamine) Dendrimer for Wound Healing Application: In Vitro and In Vivo Assays. Macromolecular Bioscience, 2022, 22, e2100313. | 2.1 | 4         |
| 46 | Chitosan/Polyvinyl Alcohol/ Lauramidopropyl Betaine/2Dâ€HOF Mixed Film with Abundant Hydrogen Bonds Acts as High Mechanical Strength Artificial Skin. Macromolecular Bioscience, 2021, 21, e2100317.  | 2.1 | 11        |
| 47 | Tailoring the properties of PVA/HPC/BSA hydrogels for wound dressing applications. Reactive and Functional Polymers, 2022, 170, 105094.   | 2.0 | 16        |
| 48 | Immune Response to Silk Sericinâ€Fibroin Composites: Potential Immunogenic Elements and Alternatives for Immunomodulation. Macromolecular Bioscience, 2022, 22, e2100292.   | 2.1 | 29        |
| 49 | Wound healing activities of polyurethane modified chitosan nanofibers loaded with different concentrations of linezolid in an experimental model of diabetes. Journal of Drug Delivery Science and Technology, 2022, 67, 102982.              | 1.4 | 16        |
| 50 | Antibacterial Polymeric Wound Dressing Based On PVA/Graphene Oxide-Nigella Sativa-Arginine. , 2020, , .   |     | 5         |
| 51 | Silk Protein Composite Bioinks and Their 3D Scaffolds and In Vitro Characterization. International Journal of Molecular Sciences, 2022, 23, 910.  | 1.8 | 6         |
| 52 | Silk Proteins Enriched Nanocomposite Hydrogels Based on Modified MMT Clay and Poly(2-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Oe Tissue Engineering. Nanomaterials, 2022, 12, 503.   | 1.9 | 8         |
| 53 | Bioactive properties of nanofibers based on poly(vinylidene fluoride) loaded with oregano essential oil: Fabrication, characterization and biological evaluation. Journal of Drug Delivery Science and Technology, 2022, 69, 103133.          | 1.4 | 7         |
| 54 | Sericin-based nanomaterials and their applications in drug delivery. , 2022, , 211-229.   |     | 1         |
| 55 | Leveraging the advancements in functional biomaterials and scaffold fabrication technologies for chronic wound healing applications. Materials Horizons, 2022, 9, 1850-1865.  | 6.4 | 30        |
| 56 | Advances in Natural Polymer-Based Electrospun Nanomaterials for Soft Tissue Engineering. Nanotechnology in the Life Sciences, 2022, , 29-52.  | 0.4 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 57 | Electrospun Biomimetic Multifunctional Nanofibers Loaded with Ferulic Acid for Enhanced Antimicrobial and Wound-Healing Activities in STZ-Induced Diabetic Rats. <i>Pharmaceuticals</i> , 2022, 15, 302.  | 1.7 | 29        |
| 58 | Antibacterial properties of functionalized silk fibroin and sericin membranes for wound healing applications in oral and maxillofacial surgery. , 2022, 135, 212740.  |     | 5         |
| 59 | Dual Spinneret Electrospun Polyurethane/PVA-Gelatin Nanofibrous Scaffolds Containing Cinnamon Essential Oil and Nanoceria for Chronic Diabetic Wound Healing: Preparation, Physicochemical Characterization and In-Vitro Evaluation. <i>Molecules</i> , 2022, 27, 2146. | 1.7 | 17        |
| 60 | Design of polysaccharidic Aloe vera gel incorporated PVA/tetracycline electrospun cell culture scaffolds for biomedical applications. <i>Nanotechnology</i> , 2022, , .   | 1.3 | 4         |
| 61 | Preparation of Needleless Electrospinning Polyvinyl Alcohol/Water-Soluble Chitosan Nanofibrous Membranes: Antibacterial Property and Filter Efficiency. <i>Polymers</i> , 2022, 14, 1054.   | 2.0 | 12        |
| 62 | The Contribution of Silk Fibroin in Biomedical Engineering. <i>Insects</i> , 2022, 13, 286.   | 1.0 | 53        |
| 63 | Recent Progress and Potential Biomedical Applications of Electrospun Nanofibers in Regeneration of Tissues and Organs. <i>Polymers</i> , 2022, 14, 1508.  | 2.0 | 17        |
| 64 | Antimicrobial Synthetic and Natural Polymeric Nanofibers as Wound Dressing: A Review. <i>Advanced Engineering Materials</i> , 2022, 24, .   | 1.6 | 30        |
| 65 | Acceleration of Healing in Full-Thickness Wound by Chitosan-Binding bFGF and Antimicrobial Peptide Modification Chitosan Membrane. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 878588.   | 2.0 | 7         |
| 66 | Silk-based nano-hydrogels for futuristic biomedical applications. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 72, 103385.  | 1.4 | 7         |
| 67 | A review of current advancements for wound healing: Biomaterial applications and medical devices. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 2542-2573.   | 1.6 | 52        |
| 68 | Design and Fabrication of a Dual Protein-Based Trilayered Nanofibrous Scaffold for Efficient Wound Healing. <i>ACS Applied Bio Materials</i> , 2022, 5, 2726-2740.  | 2.3 | 13        |
| 69 | A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Biopinks Design. <i>Polymers</i> , 2022, 14, 2238.   | 2.0 | 24        |
| 70 | Self-Crosslinkable Oxidized Alginate-Carboxymethyl Chitosan Hydrogels as an Injectable Cell Carrier for In Vitro Dental Enamel Regeneration. <i>Journal of Functional Biomaterials</i> , 2022, 13, 71.  | 1.8 | 13        |
| 71 | An overview of medical textile materials. , 2022, , 3-42.   |     | 6         |
| 72 | Eco-Friendly Bio-Hydrogels Based on Antheraea Pernyi Silk Gland Protein for Cell and Drug Delivery. <i>Gels</i> , 2022, 8, 398.   | 2.1 | 3         |
| 73 | Combined Strategy of Wound Healing Using Thermo-Sensitive PNIPAAm Hydrogel and CS/PVA Membranes: Development and In-Vivo Evaluation. <i>Polymers</i> , 2022, 14, 2454.  | 2.0 | 4         |
| 75 | Silk fibroin and silk sericin in skin tissue engineering and wound healing: retrospect and prospects. , 2022, , 301-331.  |     | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 76 | Natural polymer based electrospun systems for wound management. , 2022, , 167-186.  |     | 0         |
| 77 | Biopolymeric Prodrug Systems as Potential Antineoplastic Therapy. <i>Pharmaceutics</i> , 2022, 14, 1773.  | 2.0 | 3         |
| 78 | Natural polymers for wound dressing applications. <i>Studies in Natural Products Chemistry</i> , 2022, , 367-441.   | 0.8 | 6         |
| 79 | Production and Application of Biomaterials Based on Polyvinyl alcohol (PVA) as Wound Dressing. <i>Chemistry - an Asian Journal</i> , 2022, 17, .  | 1.7 | 32        |
| 80 | Silk proteins in reconstructive surgery: Do they possess an inherent antibacterial activity? A systematic review. <i>Wound Repair and Regeneration</i> , 2023, 31, 99-110.  | 1.5 | 9         |
| 81 | Curcumin Sustained Release with a Hybrid Chitosan-Silk Fibroin Nanofiber Containing Silver Nanoparticles as a Novel Highly Efficient Antibacterial Wound Dressing. <i>Nanomaterials</i> , 2022, 12, 3426.                               | 1.9 | 48        |
| 82 | Synthesis and characterization of polyvinyl alcohol-silk sericin nanofibers containing gelatin-capped silver nanoparticles for antibacterial applications. <i>Polymer Bulletin</i> , 2022, 79, 10357-10376.                             | 1.7 | 6         |
| 83 | Electrostimulation of fibroblast proliferation by an electrospun poly (lactide-co-glycolide)/polydopamine/chitosan membrane in a humid environment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 220, 112902.                  | 2.5 | 10        |
| 84 | Electrospun Antimicrobial Polymeric Nanofibers in Wound Dressings. <i>Advances in Polymer Science</i> , 2022, , .   | 0.4 | 0         |
| 85 | Antibacterial Electrospun Nanofibrous Materials for Wound Healing. <i>Advanced Fiber Materials</i> , 2023, 5, 107-129.  | 7.9 | 30        |
| 86 | Development and characterization of Forc spinning® mesquite gum nanofibers. <i>Materials Today Communications</i> , 2022, 33, 104599.   | 0.9 | 1         |
| 87 | Stretchable, conductive, breathable and moisture-sensitive e-skin based on CNTs/graphene/GelMA mat for wound monitoring. , 2022, 143, 213172.   |     | 10        |
| 88 | Silk sericin as building blocks of bioactive materials for advanced therapeutics. <i>Journal of Controlled Release</i> , 2023, 353, 303-316.  | 4.8 | 18        |
| 89 | Highly antibacterial electrospun double-layer mats for preventing secondary wound damage and promoting unidirectional water conduction in wound dressings. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 119, 404-413. | 2.9 | 7         |
| 90 | Lawsonia inermis-loaded poly (L-lactide-co-D, L-lactide) nanofibers for healing acceleration of burn wounds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2023, 34, 1019-1035.   | 1.9 | 1         |
| 91 | Antibacterial, efficient and sustainable CS/PVA/GA electrospun nanofiber membrane for air filtration. <i>Materials Research Express</i> , 2022, 9, 125002.  | 0.8 | 4         |
| 92 | Nanomaterials-Functionalized Hydrogels for the Treatment of Cutaneous Wounds. <i>International Journal of Molecular Sciences</i> , 2023, 24, 336.   | 1.8 | 1         |
| 93 | Electrospinning of ultrafine non-hydrolyzed silk sericin/PEO fibers on PLA bilayer scaffold fabrication. <i>Polymer Engineering and Science</i> , 2023, 63, 830-840.  | 1.5 | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 94  | PLGA/Gelatin-based electrospun nanofiber scaffold encapsulating antibacterial and antioxidant molecules for accelerated tissue regeneration. <i>Materials Today Communications</i> , 2023, 35, 105633.   | 0.9 | 7         |
| 95  | Biomass-derived fiber materials for biomedical applications. <i>Frontiers in Materials</i> , 0, 10, .  | 1.2 | 3         |
| 96  | Electrospun scaffold-based antibiotic therapeutics for chronic wound recovery. <i>Mini-Reviews in Medicinal Chemistry</i> , 2023, 23, .  | 1.1 | 1         |
| 97  | Engineering of a core-shell polyvinyl alcohol/gelatin fibrous scaffold for dual delivery of <i>Thymus daenensis</i> essential oil and <i>Glycyrrhiza glabra</i> L. extract as an antibacterial and functional wound dressing. <i>Journal of Drug Delivery Science and Technology</i> , 2023, 81, 104282. | 1.4 | 2         |
| 98  | Demonstration of electronic synapses using a sericin-based bio-memristor. <i>Applied Physics Express</i> , 2023, 16, 031007.   | 1.1 | 3         |
| 99  | Production and Utilization of Keratin and Sericin-Based Electro-Spun Nanofibers: A Comprehensive Review. <i>Journal of Natural Fibers</i> , 2023, 20, .  | 1.7 | 5         |
| 100 | Exploration of Antibiofilm and <i>In Vivo</i> Wound Healing Activity of <i>p</i> -Cymene-Loaded Gellan/PVA Nanofibers. <i>ACS Applied Bio Materials</i> , 2023, 6, 1816-1831.  | 2.3 | 5         |
| 102 | Protein-based nanocomposite hydrogels for biomedical applications. , 2023, , 283-309.  |     | 0         |
| 104 | Advances in electrospun chitosan nanofiber biomaterials for biomedical applications. <i>Materials Advances</i> , 2023, 4, 3114-3139.   | 2.6 | 3         |
| 120 | Trends in silk biomaterials. , 2024, , 9-39.   |     | 0         |
| 122 | Application of Biopolymers in Medical Textiles: Myriad of Opportunities. , 2024, , 153-169.  |     | 0         |