## **Binghong Luo**

List of Publications by Year in descending order

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RINCHONG LUO

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | 3D bioprinting of gellan gum and poly (ethylene glycol) diacrylate based hydrogels to produce<br>human-scale constructs with high-fidelity. Materials and Design, 2018, 160, 486-495.  | 7.0  | 115       |
| 2  | Liquid Crystalline Behaviors of Chitin Nanocrystals and Their Reinforcing Effect on Natural Rubber.<br>ACS Sustainable Chemistry and Engineering, 2018, 6, 325-336.  | 6.7  | 79        |
| 3  | The improvement of mechanical performance and water-response of carboxylated SBR by chitin nanocrystals. European Polymer Journal, 2015, 68, 190-206.  | 5.4  | 68        |
| 4  | Antibacterial activity and cytocompatibility of chitooligosaccharide-modified polyurethane membrane<br>via polydopamine adhesive layer. Carbohydrate Polymers, 2017, 156, 235-243.   | 10.2 | 61        |
| 5  | Tough and highly stretchable polyacrylamide nanocomposite hydrogels with chitin nanocrystals.<br>International Journal of Biological Macromolecules, 2015, 78, 23-31.  | 7.5  | 58        |
| 6  | Enhanced mechanical properties and cytocompatibility of electrospun poly( l -lactide) composite fiber<br>membranes assisted by polydopamine-coated halloysite nanotubes. Applied Surface Science, 2016, 369,<br>82-91.         | 6.1  | 56        |
| 7  | Electrospun composite nanofiber membrane of poly( l -lactide) and surface grafted chitin whiskers:<br>Fabrication, mechanical properties and cytocompatibility. Carbohydrate Polymers, 2016, 147, 216-225.                     | 10.2 | 55        |
| 8  | The design, fabrication and evaluation of 3D printed gHNTs/gMgO whiskers/PLLA composite scaffold<br>with honeycomb microstructure for bone tissue engineering. Composites Part B: Engineering, 2020,<br>192, 108001.           | 12.0 | 55        |
| 9  | 3D poly (L-lactide)/chitosan micro/nano fibrous scaffolds functionalized with<br>quercetin-polydopamine for enhanced osteogenic and anti-inflammatory activities. Chemical<br>Engineering Journal, 2020, 391, 123524.          | 12.7 | 50        |
| 10 | lcariin immobilized electrospinning poly(l-lactide) fibrous membranes via polydopamine adhesive<br>coating with enhanced cytocompatibility and osteogenic activity. Materials Science and Engineering C,<br>2017, 79, 399-409. | 7.3  | 49        |
| 11 | Superamphiphobic Surfaces with Self-Cleaning and Antifouling Properties by Functionalized Chitin<br>Nanocrystals. ACS Sustainable Chemistry and Engineering, 2020, 8, 6690-6699.   | 6.7  | 47        |
| 12 | Fabrication and Evaluation of 3D Printed Poly( <scp>l</scp> -lactide) Scaffold Functionalized with<br>Quercetin-Polydopamine for Bone Tissue Engineering. ACS Biomaterials Science and Engineering, 2019,<br>5, 2506-2518.     | 5.2  | 44        |
| 13 | Stress-relaxing double-network hydrogel for chondrogenic differentiation of stem cells. Materials<br>Science and Engineering C, 2020, 107, 110333.   | 7.3  | 43        |
| 14 | Construction of biomimetic artificial intervertebral disc scaffold via 3D printing and electrospinning. Materials Science and Engineering C, 2021, 128, 112310.  | 7.3  | 38        |
| 15 | Mechanical properties and osteogenic activity of poly(l-lactide) fibrous membrane synergistically<br>enhanced by chitosan nanofibers and polydopamine layer. Materials Science and Engineering C, 2017, 81,<br>280-290.        | 7.3  | 36        |
| 16 | Strengthening and toughening of poly(L-lactide) composites by surface modified MgO whiskers.<br>Applied Surface Science, 2015, 332, 215-223.   | 6.1  | 35        |
| 17 | Nanocomposites of poly( l -lactide) and surface-modified chitin whiskers with improved mechanical properties and cytocompatibility. European Polymer Journal, 2016, 81, 266-283.   | 5.4  | 35        |
| 18 | Functional polyhedral oligomeric silsesquioxane reinforced poly(lactic acid) nanocomposites for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 604-614.                        | 3.1  | 35        |

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|----|---|------|-----------|
| 19 | Biomimetic mineralisation of eggshell membrane featuring natural nanofiber network structure for improving its osteogenic activity. Colloids and Surfaces B: Biointerfaces, 2019, 179, 299-308.   | 5.0  | 33        |
| 20 | Sulfonated chitosan and phosphorylated chitosan coated polylactide membrane by<br>polydopamine-assisting for the growth and osteogenic differentiation of MC3T3-E1s. Carbohydrate<br>Polymers, 2020, 229, 115517.   | 10.2 | 31        |
| 21 | Sustained release of plasmid DNA from PLLA/POSS nanofibers for angiogenic therapy. Chemical<br>Engineering Journal, 2019, 365, 270-281.   | 12.7 | 30        |
| 22 | Chitin Nanocrystals as an Eco-friendly and Strong Anisotropic Adhesive. ACS Applied Materials &<br>Interfaces, 2021, 13, 11356-11368.   | 8.0  | 30        |
| 23 | Fabrication and evaluation of a chitin whisker/poly( <scp>l</scp> -lactide) composite scaffold by the direct trisolvent-ink writing method for bone tissue engineering. Nanoscale, 2020, 12, 18225-18239.   | 5.6  | 29        |
| 24 | In vitro degradation and cytocompatibility of g-MgO whiskers/PLLA composites. Journal of Materials<br>Science, 2017, 52, 2329-2344.   | 3.7  | 25        |
| 25 | Synergistic reinforcing and toughening of poly( l -lactide) composites with surface-modified MgO and chitin whiskers. Composites Science and Technology, 2016, 133, 128-135.  | 7.8  | 23        |
| 26 | Liquid crystalline and rheological properties of chitin whiskers with different chemical structures and chargeability. International Journal of Biological Macromolecules, 2020, 157, 24-35.  | 7.5  | 22        |
| 27 | Rapid synthesis and characterization of chitosanâ€ <i>g</i> â€poly( <scp>D,L</scp> â€lactide) copolymers with<br>hydroxyethyl chitosan as a macroinitiator under microwave irradiation. Journal of Applied Polymer<br>Science, 2012, 125, E125.           | 2.6  | 21        |
| 28 | Enhancement of growth and osteogenic differentiation of MC3T3-E1 cells via facile surface functionalization of polylactide membrane with chitooligosaccharide based on polydopamine adhesive coating. Applied Surface Science, 2016, 360, 858-865.        | 6.1  | 21        |
| 29 | Hyaluronic Acid Modified Halloysite Nanotubes Decorated with ZIF-8 Nanoparticles as Dual Chemo-<br>and Photothermal Anticancer Agents. ACS Applied Nano Materials, 2022, 5, 5813-5825.  | 5.0  | 21        |
| 30 | Well-ordered chitin whiskers layer with high stability on the surface of poly(d,l-lactide) film for enhancing mechanical and osteogenic properties. Carbohydrate Polymers, 2019, 212, 277-288.  | 10.2 | 20        |
| 31 | Preparation of HAp whiskers with or without Mg ions and their effects on the mechanical properties and osteogenic activity of poly(,-lactide). Composites Part B: Engineering, 2020, 196, 108137.   | 12.0 | 20        |
| 32 | 3D printed gellan gum/graphene oxide scaffold for tumor therapy and bone reconstruction.<br>Composites Science and Technology, 2021, 208, 108763.   | 7.8  | 19        |
| 33 | Deferoxamine immobilized poly(D,L-lactide) membrane via polydopamine adhesive coating: The influence<br>on mouse embryo osteoblast precursor cells and human umbilical vein endothelial cells. Materials<br>Science and Engineering C, 2017, 70, 701-709. | 7.3  | 18        |
| 34 | The liquid crystalline order, rheology and their correlation in chitin whiskers suspensions.<br>Carbohydrate Polymers, 2019, 209, 92-100.   | 10.2 | 18        |
| 35 | Polyethylene glycol grafted chitin nanocrystals enhanced, stretchable, freezing-tolerant ionic<br>conductive organohydrogel for strain sensors. Composites Part A: Applied Science and<br>Manufacturing, 2022, 155, 106813.                               | 7.6  | 18        |
| 36 | Crosslinked carboxylated SBR composites reinforced with chitin nanocrystals. Journal of Polymer<br>Research, 2016, 23, 1.   | 2.4  | 17        |

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|----|--|------|-----------|
| 37 | Preparation of Icariin and Deferoxamine Functionalized Poly( <scp>l</scp> -lactide)/chitosan<br>Micro/Nanofibrous Membranes with Synergistic Enhanced Osteogenesis and Angiogenesis. ACS Applied<br>Bio Materials, 2018, 1, 389-402.       | 4.6  | 16        |
| 38 | Biomineralization guided by polydopamine-modifed poly(L-lactide) fibrous membrane for promoted osteoconductive activity. Biomedical Materials (Bristol), 2019, 14, 055005.   | 3.3  | 16        |
| 39 | Enzymatic Degradation of Nanosized Chitin Whiskers with Different Degrees of Deacetylation. ACS<br>Biomaterials Science and Engineering, 2019, 5, 5316-5326.   | 5.2  | 16        |
| 40 | Engineering collagen fiber templates with oriented nanoarchitecture and concerns on osteoblast behaviors. International Journal of Biological Macromolecules, 2021, 185, 77-86.  | 7.5  | 15        |
| 41 | Facile fabrication of hydrophobic paper by HDTMS modified chitin nanocrystals coating for food packaging. Food Hydrocolloids, 2022, 133, 107915.   | 10.7 | 15        |
| 42 | Surface modification of halloysite nanotubes with <scp>l</scp> â€lactic acid: An effective route to<br>highâ€performance poly( <scp>l</scp> â€lactide) composites. Journal of Applied Polymer Science, 2015, 132, .                        | 2.6  | 14        |
| 43 | Customized composite intervertebral disc scaffolds by integrated 3D bioprinting for therapeutic implantation. Composites Part A: Applied Science and Manufacturing, 2021, 147, 106468.   | 7.6  | 14        |
| 44 | Anisotropic and robust hydrogels combined osteogenic and angiogenic activity as artificial periosteum. Composites Part B: Engineering, 2022, 233, 109627.  | 12.0 | 13        |
| 45 | A multifunctional coaxial fiber membrane loaded with dual drugs for guided tissue regeneration.<br>Journal of Biomaterials Applications, 2020, 34, 1041-1051.  | 2.4  | 12        |
| 46 | Creating Ultrastrong and Osteogenic Chitin Nanocomposite Hydrogels via Chitin Whiskers with<br>Different Surface Chemistries. ACS Sustainable Chemistry and Engineering, 2020, 8, 17487-17499.   | 6.7  | 11        |
| 47 | Bio-inspired liquid crystal gel with adjustable viscoelasticity to modulate cell behaviors and fate.<br>Composites Part B: Engineering, 2022, 234, 109704.   | 12.0 | 11        |
| 48 | Fabrication, antibacterial activity and cytocompatibility of quaternary ammonium<br>chitooligosaccharide functionalized polyurethane membrane via polydopamine adhesive layer.<br>Materials Science and Engineering C, 2018, 93, 319-331.  | 7.3  | 9         |
| 49 | Dual-Cross-linked Liquid Crystal Hydrogels with Controllable Viscoelasticity for Regulating Cell<br>Behaviors. ACS Applied Materials & Interfaces, 2022, 14, 21966-21977.  | 8.0  | 9         |
| 50 | Synergistic effect of functionalized poly( -lactide) with surface-modified MgO and chitin whiskers on osteogenesis in vivo and in vitro. Materials Science and Engineering C, 2019, 103, 109851.   | 7.3  | 8         |
| 51 | Facile Method to Create Poly( <scp>d</scp> , <scp>l</scp> -lactide) Composite Membranes with<br>Sequential Chitin Whisker Layers for Tunable Strength and Cell Adhesion. ACS Sustainable Chemistry<br>and Engineering, 2021, 9, 4440-4452. | 6.7  | 7         |
| 52 | Protein adsorption on the poly(L-lactic acid) surface modified by chitosan and its derivatives. Science<br>Bulletin, 2009, 54, 3167-3173.  | 1.7  | 5         |
| 53 | Synergistic Effect of Surface-Modified MgO and Chitin Whiskers on the Hydrolytic Degradation<br>Behavior of Injection Molding Poly( <scp>I</scp> -lactic acid). ACS Biomaterials Science and<br>Engineering, 2019, 5, 2942-2952.           | 5.2  | 4         |
| 54 | Mechanical and nonisothermal cold crystallization behaviors of injection molded surfaceâ€modified<br>chitin whiskers/poly( <scp>l</scp> â€lactide) composites. Polymer Composites, 2021, 42, 6635-6647.                                    | 4.6  | 4         |

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|----|--|-----|-----------|
| 55 | Purification of Alginate for Tissue Engineering. , 2009, , .   |     | 2         |
| 56 | Effect of MgO whiskers on thermal behavior and mechanical properties of injection molded poly( <i>L</i> ″actide). Polymer Composites, 2018, 39, E1807. | 4.6 | 2         |