

# Jie Cai

## 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.

30  
papers

709  
citations

13  
h-index

26  
g-index

32  
ext. papers

923  
ext. citations

6.3  
avg, IF

4.11  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 30 | High-Performance Supercapacitor Electrode Materials from Cellulose-Derived Carbon Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 14946-53  | 9.5  | 144       |
| 29 | High-performance supercapacitor electrode from cellulose-derived, inter-bonded carbon nanofibers. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 302-308   | 8.9  | 100       |
| 28 | Well-aligned cellulose nanofiber-reinforced polyvinyl alcohol composite film: Mechanical and optical properties. <i>Carbohydrate Polymers</i> , <b>2016</b> , 140, 238-45  | 10.3 | 65        |
| 27 | Electrospun composite nanofiber mats of Cellulose@Organically modified montmorillonite for heavy metal ion removal: Design, characterization, evaluation of absorption performance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 92, 10-16      | 8.4  | 64        |
| 26 | Thermal properties and crystallization behavior of thermoplastic starch/poly(e-caprolactone) composites. <i>Carbohydrate Polymers</i> , <b>2014</b> , 102, 746-54  | 10.3 | 47        |
| 25 | Facile microencapsulation of olive oil in porous starch granules: Fabrication, characterization, and oxidative stability. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 111, 755-761   | 7.9  | 36        |
| 24 | Citric acid-incorporated cellulose nanofibrous mats as food materials-based biosorbent for removal of hexavalent chromium from aqueous solutions. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 149, 459-466                                       | 7.9  | 24        |
| 23 | Surface acetylation of bamboo cellulose: preparation and rheological properties. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 11-8   | 10.3 | 19        |
| 22 | Preparation of Lipid-Soluble Bilberry Anthocyanins through Acylation with Cinnamic Acids and their Antioxidation Activities. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 7467-7473   | 5.7  | 18        |
| 21 | Synthesis of H <sub>2</sub> Ti <sub>2</sub> O <sub>3</sub> ·H <sub>2</sub> O nanotubes and their effects on the flame retardancy of bamboo fiber/high-density polyethylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 90, 225-233 | 8.4  | 16        |
| 20 | Polysaccharide-Based Hydrogels Derived from Cellulose: The Architecture Change from Nanofibers to Hydrogels for a Putative Dual Function in Dye Wastewater Treatment. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 9725-9732                          | 5.7  | 16        |
| 19 | Bamboo cellulose-derived cellulose acetate for electrospun nanofibers: synthesis, characterization and kinetics. <i>Cellulose</i> , <b>2018</b> , 25, 391-398  | 5.5  | 15        |
| 18 | Starch/tea polyphenols nanofibrous films for food packaging application: From facile construction to enhance mechanical, antioxidant and hydrophobic properties. <i>Food Chemistry</i> , <b>2021</b> , 360, 129922   | 8.5  | 14        |
| 17 | The enhancement of the flame retardance of bamboo fibre/HDPE composites: Cerium doped H <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> ·H <sub>2</sub> O nanotubes effects. <i>Construction and Building Materials</i> , <b>2019</b> , 201, 728-735                               | 6.7  | 13        |
| 16 | Robust Construction of Flexible Bacterial Cellulose@Ni(OH) <sub>2</sub> Paper: Toward High Capacitance and Sensitive H <sub>2</sub> O <sub>2</sub> Detection. <i>Engineered Science</i> , <b>2018</b> ,  | 3.8  | 13        |
| 15 | Acylation of blueberry anthocyanins with maleic acid: Improvement of the stability and its application potential in intelligent color indicator packing materials. <i>Dyes and Pigments</i> , <b>2021</b> , 184, 108852  | 4.6  | 13        |
| 14 | Effect of solvent treatment on morphology, crystallinity and tensile properties of cellulose acetate nanofiber mats. <i>Journal of the Textile Institute</i> , <b>2017</b> , 108, 555-561  | 1.5  | 12        |

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|----|--|------|----|
| 13 | Synthesis of Ag-FeO Nanoparticles Immobilized on Pure Cellulose Microspheres as Recyclable and Biodegradable Catalysts. <i>ACS Omega</i> , <b>2020</b> , 5, 8839-8846  | 3.9  | 11 |
| 12 | The use of solvent-soaking treatment to enhance the anisotropic mechanical properties of electrospun nanofiber membranes for water filtration. <i>RSC Advances</i> , <b>2016</b> , 6, 66807-66813  | 3.7  | 11 |
| 11 | Promising Rice-Husk-Derived Carbon/Ni(OH) Composite Materials as a High-Performing Supercapacitor Electrode. <i>ACS Omega</i> , <b>2020</b> , 5, 29896-29902   | 3.9  | 11 |
| 10 | Hydrophobic Interface Starch Nanofibrous Film for Food Packaging: From Bioinspired Design to Self-Cleaning Action. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 5067-5075   | 5.7  | 11 |
| 9  | Complexation of maltodextrin-based inulin and green tea polyphenols via different ultrasonic pretreatment. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 74, 105568   | 8.9  | 8  |
| 8  | A combination of coarse-grain molecular dynamics to investigate the effects of sodium dodecyl sulfate on grafted reaction of starch-based adhesive. <i>Carbohydrate Polymers</i> , <b>2019</b> , 218, 20-29  | 10.3 | 6  |
| 7  | Parameters characterizing the kinetics of the nonisothermal crystallization of thermoplastic starch/poly(lactic acid) composites as determined by differential scanning calorimetry. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 3566-3573                | 2.9  | 5  |
| 6  | Effects of nano-TiO <sub>2</sub> on the properties and structures of starch/poly( $\epsilon$ -caprolactone) composites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, n/a-n/a   | 2.9  | 5  |
| 5  | Optimization of Spray-Drying Process of Extract for Inulin Production. <i>Molecules</i> , <b>2019</b> , 24,  | 4.8  | 4  |
| 4  | One-pot fabrication of cellulose-collagen fibrous networks for potential use as wound dressing: From characterization to first evaluation of cytocompatibility. <i>BioResources</i> , <b>2020</b> , 15, 2501-2511  | 1.3  | 2  |
| 3  | Formation of H <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> ·H <sub>2</sub> O nanotube-based hybrid coating on bamboo fibre materials through layer-by-layer self-assembly method for an improved flame retardant performance. <i>Cellulose</i> , <b>2019</b> , 26, 2729-2741 | 5.5  | 2  |
| 2  | Functional nanoparticle reinforced starch-based adhesive emulsion: Toward robust stability and high bonding performance. <i>Carbohydrate Polymers</i> , <b>2021</b> , 269, 118270  | 10.3 | 2  |
| 1  | Interfacial modification of starch at high concentration by sodium dodecylsulfate as revealed by experiments and molecular simulation. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 310, 113190   | 6    | 0  |