

Shiyan 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.

75
papers

3,406
citations

33
h-index

57
g-index

81
ext. papers

4,049
ext. citations

8.3
avg, IF

5.39
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 75 | Toward continuous high-performance bacterial cellulose macrofibers by implementing grading-stretching in spinning.. <i>Carbohydrate Polymers</i> , 2022 , 282, 119133 | 10.3 | 1 |
| 74 | Continuous and integrated PEDOT@Bacterial cellulose/CNT hybrid helical fiber with reinforced cement-sand structure for self-stretchable solid supercapacitor. <i>Chemical Engineering Journal</i> , 2022 , 427, 131904 | 14.7 | 3 |
| 73 | Hydrophobic, breathable cellulose nonwoven fabrics for disposable hygiene applications.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119367 | 10.3 | 0 |
| 72 | High-Strength Superstretchable Helical Bacterial Cellulose Fibers with a "Self-Fiber-Reinforced Structure". <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1545-1554 | 9.5 | 4 |
| 71 | High Sensitivity Polyurethane-Based Fiber Strain Sensor with Porous Structure via Incorporation of Bacterial Cellulose Nanofibers. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001235 | 6.4 | 7 |
| 70 | TEMPO-Oxidized Bacterial Cellulose Nanofibers/Graphene Oxide Fibers for Osmotic Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22416-22425 | 9.5 | 13 |
| 69 | Bacterial cellulose nanofiber distribution on gelatin and silk fibroin scaffolds and the cell behavior. <i>Cellulose</i> , 2021 , 28, 91-102 | 5.5 | 1 |
| 68 | Scalable, self-cleaning and self-floating bi-layered bacterial cellulose biofoam for efficient solar evaporator with photocatalytic purification. <i>Desalination</i> , 2021 , 500, 114899 | 10.3 | 23 |
| 67 | Oppositely charged aligned bacterial cellulose biofilm with nanofluidic channels for osmotic energy harvesting. <i>Nano Energy</i> , 2021 , 80, 105554 | 17.1 | 15 |
| 66 | Durable and Flexible Bio-assembled RGO-BC/BC Bilayer Electrodes for Pressure Sensing. <i>Advanced Fiber Materials</i> , 2021 , 3, 128-137 | 10.9 | 8 |
| 65 | Bacterial cellulose nanofiber reinforced poly(glycerol-sebacate) biomimetic matrix for 3D cell culture. <i>Cellulose</i> , 2021 , 28, 8483-8492 | 5.5 | 3 |
| 64 | Scalable bacterial cellulose biofilms with improved ion transport for high osmotic power generation. <i>Nano Energy</i> , 2021 , 88, 106275 | 17.1 | 4 |
| 63 | Anisotropic bacterial cellulose hydrogels with tunable high mechanical performances, non-swelling and bionic nanofluidic ion transmission behavior. <i>Nanoscale</i> , 2021 , 13, 8126-8136 | 7.7 | 8 |
| 62 | Scalable, Flexible, Durable, and Salt-Tolerant CuS/Bacterial Cellulose Gel Membranes for Efficient Interfacial Solar Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9017-9026 | 8.3 | 14 |
| 61 | A 3D-printable TEMPO-oxidized bacterial cellulose/alginate hydrogel with enhanced stability via nanoclay incorporation. <i>Carbohydrate Polymers</i> , 2020 , 238, 116207 | 10.3 | 39 |
| 60 | All-natural injectable hydrogel with self-healing and antibacterial properties for wound dressing. <i>Cellulose</i> , 2020 , 27, 2637-2650 | 5.5 | 24 |
| 59 | Urethra-inspired biomimetic scaffold: A therapeutic strategy to promote angiogenesis for urethral regeneration in a rabbit model. <i>Acta Biomaterialia</i> , 2020 , 102, 247-258 | 10.8 | 22 |

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| 58 | Zn-loaded TOBC nanofiber-reinforced biomimetic calcium alginate hydrogel for antibacterial wound dressing. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 235-242 | 7.9 | 26 |
| 57 | Top-down peeling bacterial cellulose to high strength ultrathin films and multifunctional fibers. <i>Chemical Engineering Journal</i> , 2020 , 391, 123527 | 14.7 | 16 |
| 56 | Silver Nanowire-Bacterial Cellulose Composite Fiber-Based Sensor for Highly Sensitive Detection of Pressure and Proximity. <i>ACS Nano</i> , 2020 , 14, 15428-15439 | 16.7 | 50 |
| 55 | Highly Mineralized Biomimetic Polysaccharide Nanofiber Materials Using Enzymatic Mineralization. <i>Biomacromolecules</i> , 2020 , 21, 2176-2186 | 6.9 | 10 |
| 54 | Polypyrrole@TEMPO-oxidized bacterial cellulose/reduced graphene oxide macrofibers for flexible all-solid-state supercapacitors. <i>Chemical Engineering Journal</i> , 2019 , 368, 1022-1032 | 14.7 | 52 |
| 53 | A simple method for controlling the bacterial cellulose nanofiber density in 3D scaffolds and its effect on the cell behavior. <i>Cellulose</i> , 2019 , 26, 7411-7421 | 5.5 | 3 |
| 52 | A strategy of tailoring polymorphs and nanostructures to construct self-reinforced nonswelling high-strength bacterial cellulose hydrogels. <i>Nanoscale</i> , 2019 , 11, 15347-15358 | 7.7 | 17 |
| 51 | 3D printing of biomimetic vasculature for tissue regeneration. <i>Materials Horizons</i> , 2019 , 6, 1197-1206 | 14.4 | 62 |
| 50 | Simultaneous 3D cell distribution and bioactivity enhancement of bacterial cellulose (BC) scaffold for articular cartilage tissue engineering. <i>Cellulose</i> , 2019 , 26, 2513-2528 | 5.5 | 21 |
| 49 | Mechanically robust reduced graphene oxide/bacterial cellulose film obtained via biosynthesis for flexible supercapacitor. <i>Chemical Engineering Journal</i> , 2019 , 360, 829-837 | 14.7 | 46 |
| 48 | Use of heparinized bacterial cellulose based scaffold for improving angiogenesis in tissue regeneration. <i>Carbohydrate Polymers</i> , 2018 , 181, 948-956 | 10.3 | 32 |
| 47 | Color-tunable luminescent macrofibers based on CdTe QDs-loaded bacterial cellulose nanofibers for pH and glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 110-119 | 8.5 | 44 |
| 46 | Hierarchical core-sheath polypyrrole@carbon nanotube/bacterial cellulose macrofibers with high electrochemical performance for all-solid-state supercapacitors. <i>Electrochimica Acta</i> , 2018 , 283, 1578-1588 | 6.7 | 32 |
| 45 | A smart bilayered scaffold supporting keratinocytes and muscle cells in micro/nano-scale for urethral reconstruction. <i>Theranostics</i> , 2018 , 8, 3153-3163 | 12.1 | 31 |
| 44 | Patterned bacterial cellulose wound dressing for hypertrophic scar inhibition behavior. <i>Cellulose</i> , 2018 , 25, 6705-6717 | 5.5 | 17 |
| 43 | Hybrid scaffolds enhanced by nanofibers improve in vitro cell behavior for tissue regeneration. <i>Cellulose</i> , 2018 , 25, 7113-7125 | 5.5 | 5 |
| 42 | Macrofibers with High Mechanical Performance Based on Aligned Bacterial Cellulose Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20330-20339 | 9.5 | 93 |
| 41 | TEMPO-oxidized bacterial cellulose nanofibers-supported gold nanoparticles with superior catalytic properties. <i>Carbohydrate Polymers</i> , 2017 , 160, 34-42 | 10.3 | 49 |

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| 40 | Bacterial cellulose/gelatin scaffold loaded with VEGF-silk fibroin nanoparticles for improving angiogenesis in tissue regeneration. <i>Cellulose</i> , 2017 , 24, 5013-5024 | 5.5 | 22 |
| 39 | In vitro biodegradability of bacterial cellulose by cellulase in simulated body fluid and compatibility in vivo. <i>Cellulose</i> , 2016 , 23, 3187-3198 | 5.5 | 33 |
| 38 | Structural and functional evaluation of oxygenating keratin/silk fibroin scaffold and initial assessment of their potential for urethral tissue engineering. <i>Biomaterials</i> , 2016 , 84, 99-110 | 15.6 | 73 |
| 37 | ZnS/Bacterial Cellulose/Epoxy Resin (ZnS/BC/E56) Nanocomposites with Good Transparency and Flexibility. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 153-157 | 9.1 | 16 |
| 36 | Improving the mechanical properties of cellulose diacetate fibers via using an ionic liquid as processing solvent. <i>RSC Advances</i> , 2016 , 6, 1-7 | 3.7 | 79 |
| 35 | Bacterial Cellulose-Based Biomimetic Nanofibrous Scaffold with Muscle Cells for Hollow Organ Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 19-29 | 5.5 | 46 |
| 34 | Flexible X-ray radiation protection membrane PVA/pb(NO ₃) ₂ microcapsule composites supported by bacterial cellulose. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a | 2.9 | 4 |
| 33 | Improved cell infiltration and vascularization of three-dimensional bacterial cellulose nanofibrous scaffolds by template biosynthesis. <i>RSC Advances</i> , 2016 , 6, 42229-42239 | 3.7 | 23 |
| 32 | An air-stable microwire radial heterojunction with high photoconductivity based on a new building block. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5933-5939 | 7.1 | 12 |
| 31 | Color-tunable luminescent CdTe quantum dot membranes based on bacterial cellulose (BC) and application in ion detection. <i>RSC Advances</i> , 2015 , 5, 55756-55761 | 3.7 | 14 |
| 30 | Thermal behavior of cellulose diacetate melt using ionic liquids as plasticizers. <i>RSC Advances</i> , 2015 , 5, 901-907 | 3.7 | 19 |
| 29 | Flexible conductive polypyrrole nanocomposite membranes based on bacterial cellulose with amphiphobicity. <i>Carbohydrate Polymers</i> , 2015 , 117, 230-235 | 10.3 | 45 |
| 28 | Facilely green synthesis of silver nanoparticles into bacterial cellulose. <i>Cellulose</i> , 2015 , 22, 373-383 | 5.5 | 59 |
| 27 | Functionalized bacterial cellulose derivatives and nanocomposites. <i>Carbohydrate Polymers</i> , 2014 , 101, 1043-60 | 10.3 | 290 |
| 26 | Free-standing zirconia nanofibrous membranes with robust flexibility for corrosive liquid filtration. <i>RSC Advances</i> , 2014 , 4, 2756-2763 | 3.7 | 25 |
| 25 | In situ fabrication of a microporous bacterial cellulose/potato starch composite scaffold with enhanced cell compatibility. <i>Cellulose</i> , 2014 , 21, 1823-1835 | 5.5 | 42 |
| 24 | Tuning the Charge Transport Property of Naphthalene Diimide Derivatives by Changing the Substituted Position of Fluorine Atom on Molecular Backbone. <i>Chinese Journal of Chemistry</i> , 2014 , 32, 1057-1064 | 4.9 | 9 |
| 23 | Zinc sulfide nanoparticles template by bacterial cellulose and their optical properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a | 2.9 | 8 |

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| 22 | Synthesis of flexible magnetic nanohybrid based on bacterial cellulose under ultrasonic irradiation. <i>Materials Science and Engineering C</i> , 2013 , 33, 2407-12 | 8.3 | 46 |
| 21 | Polyol mediated synthesis of ZnO nanoparticles templated by bacterial cellulose. <i>Carbohydrate Polymers</i> , 2013 , 92, 1953-9 | 10.3 | 68 |
| 20 | Porous bacterial cellulose prepared by a facile surfactant-assisted foaming method in azodicarbonamide-NaOH aqueous solution. <i>Materials Letters</i> , 2012 , 81, 131-134 | 3.3 | 28 |
| 19 | Solution-processed and air-stable n-type organic thin-film transistors based on thiophene-fused dicyanoquinonediimine (DCNQI) derivatives. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3994-4000 | 9.5 | 13 |
| 18 | Flexible luminescent CdSe/bacterial cellulose nanocomposite membranes. <i>Carbohydrate Polymers</i> , 2012 , 88, 173-178 | 10.3 | 60 |
| 17 | Flexible electrically conductive nanocomposite membrane based on bacterial cellulose and polyaniline. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8453-7 | 3.4 | 257 |
| 16 | Highly stable and sensitive humidity sensors based on quartz crystal microbalance coated with bacterial cellulose membrane. <i>Sensors and Actuators B: Chemical</i> , 2011 , 159, 301-306 | 8.5 | 57 |
| 15 | Facile fabrication of flexible magnetic nanohybrid membrane with amphiphobic surface based on bacterial cellulose. <i>Carbohydrate Polymers</i> , 2011 , 86, 1760-1767 | 10.3 | 54 |
| 14 | Preparation and properties of photochromic bacterial cellulose nanofibrous membranes. <i>Cellulose</i> , 2011 , 18, 655-661 | 5.5 | 55 |
| 13 | Solvent-free acetylation of bacterial cellulose under moderate conditions. <i>Carbohydrate Polymers</i> , 2011 , 83, 1575-1581 | 10.3 | 92 |
| 12 | Formaldehyde sensors based on nanofibrous polyethyleneimine/bacterial cellulose membranes coated quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 554-559 | 8.5 | 75 |
| 11 | Preparation of amidoximated bacterial cellulose and its adsorption mechanism for Cu ²⁺ and Pb ²⁺ . <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA | 2.9 | 8 |
| 10 | Facile synthesis of ZnO nanoparticles based on bacterial cellulose. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 170, 88-92 | 3.1 | 70 |
| 9 | Biomimetic mineralization synthesis of calcium-deficient carbonate-containing hydroxyapatite in a three-dimensional network of bacterial cellulose. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 285-290 | 3.5 | 39 |
| 8 | Kinetic and thermodynamic studies of adsorption of Cu ²⁺ and Pb ²⁺ onto amidoximated bacterial cellulose. <i>Polymer Bulletin</i> , 2009 , 63, 283-297 | 2.4 | 41 |
| 7 | In situ synthesis of silver chloride nanoparticles into bacterial cellulose membranes. <i>Materials Science and Engineering C</i> , 2009 , 29, 1216-1219 | 8.3 | 133 |
| 6 | Carboxymethylated-bacterial cellulose for copper and lead ion removal. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1355-9 | 12.8 | 196 |
| 5 | Adsorption of Cu(II) and Pb(II) onto diethylenetriamine-bacterial cellulose. <i>Carbohydrate Polymers</i> , 2009 , 75, 110-114 | 10.3 | 217 |

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| 4 | In situ synthesis of CdS nanoparticles on bacterial cellulose nanofibers. <i>Carbohydrate Polymers</i> , 2009 , 76, 509-512 | 10.3 | 131 |
| 3 | Biosynthesis of bacterial cellulose/multi-walled carbon nanotubes in agitated culture. <i>Carbohydrate Polymers</i> , 2008 , 74, 659-665 | 10.3 | 113 |
| 2 | Synthesis and Non-isothermal Crystallization Behavior of PET/Surface-treated TiO ₂ Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2008 , 47, 1117-1129 | 1.4 | 20 |
| 1 | Spinning continuous high-strength bacterial cellulose hydrogel fibers for multifunctional bioelectronic interfaces. <i>Journal of Materials Chemistry A</i> , | 13 | 5 |