

## Special Issue

# Advances in Bacterial Nanocellulose-Based Materials

### Message from the Guest Editors

Bacterial nanocellulose is a remarkable hydrocolloidal bacterial exopolysaccharide with singular properties that run the gamut from in situ moldability and shape retention, to high purity and water-holding capacity, biocompatibility, biodegradability, and unique mechanical properties. Furthermore, the application horizons of this nanoscale form of cellulose (and materials thereof) have been expanded to multiple fields, from those in the food industry (e.g., packaging) to specific technological (e.g., sensors and fuel cells) and biomedical (e.g., wound healing, tissue engineering, and 3D bioprinting) applications. This Special Issue of *Materials* will gather the recent advances of top scientists in the field of bacterial nanocellulose-based materials with a focus on their production, properties, and applications. Therefore, bacterial nanocellulose-based materials assembled with distinct macromolecules and molecules, such as natural and synthetic polymers, bioactive compounds, and inorganic nanoparticles, are more than welcome for this Special Issue on “Advances in Bacterial Nanocellulose-based Materials”.

### Guest Editors

Prof. Dr. Armando J. D. Silvestre

Prof. Dr. Carmen S. R. Freire

Dr. Carla Vilela

### Deadline for manuscript submissions

closed (10 April 2023)



## Materials

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CiteScore 6.4  
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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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