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Advances in Bacterial Nanocellulose-Based Materials

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Deadline for manuscript submissions:
closed (10 April 2023)

Message from the Guest Editors

Dear Colleagues,

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”.

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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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