

## Special Issue

# Bio-Based Natural Fiber Composite Materials

### Message from the Guest Editors

We are welcoming any papers related to (but not limit to) the following subjects:

- Fiber retting: Technologies to convert biomass and agricultural bast into the fibers, including the mechanical retting, bacterial retting, chemical retting, and other techniques.
- Natural fiber characterizations: The physical and mechanical properties of different natural fibers including wood, kenaf, hemp, cotton, wheat straw, bamboo, sisal, flex, and others.
- Fiber treatments: (1) To enhance the interfacial bonding of the fibers and the performance of the resulting composites; (2) to functionalize the fibers for functional composite products.
- Bio-based resin, including, tannin, protein, soy, and other plant-based adhesives
- Bioproducts manufacturing: For both structural and non-structural natural fiber composites.
- Physical and mechanical properties, including decay resistant, biodegradability, mechanical performance, and physical performance (thermal, sound, and others) of the natural fiber composites.
- Bioproducts applications for automobile, building, transportation, aerospace, and others.
- Biomass to carbon conversion processes, biocarbon activation, as well as their applications

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### Guest Editors

Prof. Dr. Sheldon Shi

Mechanical Engineering Department, University of North Texas,  
Denton, TX 76203, USA

Dr. Xuan Wang

Mechanical Engineering Department, University of North Texas,  
Denton, TX 76203, USA

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### Deadline for manuscript submissions

closed (20 February 2026)



## Materials

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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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## About the Journal

### Message from the Editorial Board

*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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### Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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