



an Open Access Journal by MDPI

## Mechanical Properties of Biocomposites

Guest Editors:

**Dr. Juan Carlos Del Real-Romero**

ICAI School of Engineering,  
Institute for Research in  
Technology, Universidad  
Pontificia Comillas, Alberto  
Aguilera 23, 28015 Madrid, Spain

**Assoc. Prof. Dr. Eva Paz Jiménez**

ICAI School of Engineering,  
Institute for Research in  
Technology, Universidad  
Pontificia Comillas, Alberto  
Aguilera 23, 28015 Madrid, Spain

**Assoc. Prof. Dr. Juana Abenojar Buendia**

Materials Science and  
Engineering Department, IAAB,  
Materials Performance Group,  
Universidad Carlos III de Madrid,  
Av. Universidad 30, 28911  
Leganes, Madrid, Spain

Deadline for manuscript  
submissions:

**closed (31 October 2021)**



[mdpi.com/si/35785](https://mdpi.com/si/35785)

### Message from the Guest Editors

Biocomposites contain bio-based materials such as natural fibers or biopolymers. In recent times, these materials have attracted significant interest due to their advantages compared to other materials such as GRP or CFRP composites, including their minor environmental impact, better recyclability and lower cost. The growing environmental consciousness has driven efforts to increase the mechanical performance of these new materials to extend their capabilities and applications.

This Special Issue aims to provide an overview of the recent advances in the mechanical performance of biocomposites. We welcome submissions related to the mechanical characterization of bio-based resins and natural fibers, fracture mechanics and fatigue behavior, testing and characterization methods, durability, and analytical and modeling studies of biocomposites. We also welcome review articles that describe the latest knowledge in the aforementioned fields.

### Keywords

- biocomposites
- bio-based polymers
- natural fibers
- nanofibers
- mechanical characterization
- fracture
- fatigue
- durability



an Open Access Journal by MDPI

## 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

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

*Materials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)