

## Special Issue

# Modern Wood-Based Materials for Sustainable Building

### Message from the Guest Editors

Modern construction approaches are placing increasing emphasis on sustainable building materials, including those that are wood-based. Wood, a natural and renewable resource, is thus becoming a crucial element in the path towards sustainable construction.

This Special Issue focuses on the use of wood and wood-based materials, considering both their construction and insulation applications, joining and bonding methods, and protection against biotic and abiotic factors. In the context of sustainable construction.

An important aspect of this Special Issue is the use of these materials to improve the energy efficiency of buildings and reduce material intensity. This issue will address modern wood bonding/joining techniques that affect not only construction strength but also building time and costs. In addition, it will also address new wood preservation strategies, modern impregnation, and surface-finishing techniques for structural timber and wood-based materials that ensure durability and aesthetics.

We are delighted to invite you to submit a manuscript for this Special Issue. Full articles, communications, and reviews are welcome.

---

### Guest Editors

Dr. Dorota Dukarska

Faculty of Forestry and Wood Technology, Department of Mechanical Wood Technology, Poznan University of Life Sciences, Wojska Polskiego 38/42, 60-637 Poznań, Poland

Dr. Jakub Kawalerczyk

Department of Mechanical Wood Technology, Faculty of Forestry and Wood Technology, Poznan University of Life Sciences, Poznań, Poland

---

### Deadline for manuscript submissions

20 November 2025



## Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/201579](https://mdpi.com/si/201579)

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

[mdpi.com/journal/  
materials](https://mdpi.com/journal/materials)





# Materials

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/journal/  
materials](https://mdpi.com/journal/materials)



## About the Journal

### 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.

---

### 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

---

### 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 - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Condensed Matter Physics)