



an Open Access Journal by MDPI

Innovative Approaches for Cellulose-Containing Materials

Guest Editors:

Prof. Radosław Mirski

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

Dr. Adam Derkowski

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

Deadline for manuscript submissions:

closed (10 June 2023)

Message from the Guest Editors

The growing demand for lignocellulosic raw materials has led to an increase in innovation in their production technology. The deficit of the main component of wood-based materials has led to the development of wood-based technology in three main directions:

1. the production of lightweight wood-based materials or materials with reduced density;
2. substitution of wood particles with particles from other plants that have not yet been used as the main raw material;
3. improvement of the load-bearing capacity of known materials so that the cross-sections of these materials used in the main product can be reduced.

The aim of this Special Issue is to bring up-to-date knowledge on the latest processes for manufacturing materials from lignocellulosic raw materials, to present wood-based products with improved or modified properties or to identify the features and drawbacks of current materials that need improvement. Therefore, we encourage you to submit both purely scientific articles and review papers, or even interesting expert opinions on new processes for the production of lignocellulosic materials in any board or beam form.





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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)