



an Open Access Journal by MDPI

Towards a Sustainable and Recyclable Future with Wood and Wood-Based Composites

Guest Editors:

Dr. Klementina Pušnik Črešnar

Assist. Prof. dr. Klementina Pušnik Črešnar, Faculty of Polymer Technology, Ozare 19, SI-2380 Slovenj Gradec, Slovenia

Dr. Olivija Plohl

Faculty of Mechanical Engineering, University of Maribor, 2000 Maribor, Slovenia

Deadline for manuscript submissions:

30 April 2025

Message from the Guest Editors

This is a challenge where polymer–wood-fibre-reinforced composites offer significant opportunities to exploit raw material resources and produce high-added-value material composites that provide a societal solution, saving resources and emissions and ultimately making the polymer composite material as attractive and best qualified as a neat polymer.

There is a need to tune the structural changes in the properties of wood–polymer composites (molecular weight, M_w , chain scission, crystal structure, (trans) crystallisation behaviour) that cause changes in thermal properties (melting temperature, crystallisation) as well as rheological, mechanical, and surface behaviour; adding new functionalities also provides motivation for future tailoring.

Focusing on multifunctional properties in a wide range of applications such as automotive, aerospace, packaging, construction and transportation, the Special Issue, entitled Towards a Sustainable and Recyclable Future with Wood and Wood-based Composites, will present the latest developments in polymer wood-based composites.





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)