

Special Issue

Study of Timber and Wood Related Materials

Message from the Guest Editor

Being natural, renewable, and environmentally friendly, wood is a highly versatile material that has always been a common choice for many applications, including the production of tools, furniture, or art objects. Furthermore, its exceptional mechanical properties also make wood a preferable structural material for construction purposes. Some species of wood can be even stronger than steel or concrete. Although wood mechanical properties have been broadly investigated, further intensive research in this area is still in progress to provide more details. This Special Issue aims to present updated knowledge relating to the mechanical and viscoelastic performance of wood and wood-based materials under various conditions; to report on the progress in the enhancement of wood mechanical properties by means of different treatments; to review the relationships between wood structure, chemical composition, moisture content, and its mechanical performance; and to demonstrate cutting-edge advances in the development of modern wood-based materials of enhanced mechanical properties.

Guest Editor

Prof. Dr. Hong Lei

Chemistry and Material Engineering College, Zhejiang Agriculture and Forestry University, Hangzhou, China

Deadline for manuscript submissions

closed (20 August 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



mdpi.com/si/110618

Materials

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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





Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
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 - Q1 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q2 (Condensed Matter Physics)