



Advances in Preparation and Modification of Wood-Based Materials

Guest Editors:

Dr. Youming Dong

College of Materials Science and Engineering, Nanjing Forestry University, Nanjing 210037, China

Dr. Yutao Yan

College of Chemistry and Materials Engineering, Zhejiang Agricultural & Forestry University, Hangzhou 311300, China

Deadline for manuscript submissions:

closed (10 August 2023)

Message from the Guest Editors

Wood is a renewable and versatile material that is widely used in different applications. With the increasing environmental and health concerns, the development and application of wood-based materials have attracted increasing attention. Tremendous efforts have been made to prepare high-quality wood with enhanced physical and mechanical properties by chemical modification, impregnation, and surface modification. In addition, multifunctionalized wood materials have been fabricated to obtain unique structures and components; these materials exhibit potential in energy storage, sensors, optics, and water treatment. Innovative approaches and applications are being developed. This Special Issue, entitled “Advances in Preparation and Modification of Wood-Based Materials”, invites researchers to share ideas and methods on the preparation of high-quality and functional wood-based materials.

Potential topics include, but are not limited to:

- Wood physics;
- Wood modification;
- Wood polymer composites;
- Surface modification;
- Functional wood materials;
- Wood adhesives;
- Wood panels;
- Bamboo materials.





forests



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/forests
forests@mdpi.com
[X@Forests_MDPI](https://twitter.com/Forests_MDPI)