



Advance in Functional Lignocellulosic Materials

Guest Editors:

Dr. Xiaoshuai Han

College of Materials Science and
Technology, Nanjing Forestry
University, Nanjing, China

Dr. Gaigai Duan

College of Materials Science and
Technology, Nanjing Forestry
University, Nanjing, China

Dr. Yanyan Dong

Institute of Environment and
Sustainable Development in
Agriculture, Chinese Academy of
Agricultural Sciences, Beijing
100081, China

Deadline for manuscript
submissions:

closed (5 March 2024)

Message from the Guest Editors

When developing high-performance materials, natural polymers should be prioritized due to their renewability and sustainability, low density, natural abundance, and high mechanical properties. Wood, one of the most important biological materials, gets more and more focus. Recent research shows interesting possibilities to modify wood templates in order to add functional properties for high-performance structural materials. As one of the three major structural components in wood, cellulose, especially its nanoscale semi-crystalline derivative nanocellulose, has also been widely used in high-end manufacturing. Functional wooden and cellulosic composite will be expected to be used in the design of high-performance materials for applications in construction, automobiles, and aerospace. Accordingly, this Special Issue aims to investigate innovation in functional lignocellulosic materials, including wood composite, aerogel, hydrogel, etc.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.0.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/polymers
polymers@mdpi.com
X@Polymers_MDPI