



## Eco-Friendly Polymers: Structure, Modification and Processing

Guest Editors:

**Dr. Dorota Dukarska**

Department of Mechanical Wood  
Technology, Faculty of Forestry  
and Wood Technology, Poznan  
University of Life Sciences, 60-627  
Poznan, Poland

**Dr. Jakub Kawalerczyk**

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

Deadline for manuscript  
submissions:

**closed (30 November 2024)**

### Message from the Guest Editors

Although synthetic polymers are still very popular, their synthesis and further processing pose a great challenge in the light of growing public awareness of environmental issues. Consequently, materials made from renewable sources have gained significant attention in recent decades for their potential to replace polymers from petroleum sources. Nowadays, solutions are constantly being proposed, which has led to the creation of bio-based materials, products and entire technologies that have a much lower environmental impact. The development of eco-friendly materials also allows for much more effective waste management. These residues can be applied, for example, as various types of fillers to improve the properties of existing polymer-based products. Overall, the implementation of “eco-friendly” solutions is widely considered an important strategy in the field of materials engineering, allowing the development of promising materials that constitute an alternative to existing synthetic materials.

This Special Issue aims to present the latest research on the structure, modification and processing of environmentally friendly polymeric materials.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Alexander Böker**

Fraunhofer-Institut für  
Angewandte Polymerforschung,  
Lehrstuhl für Polymermaterialien  
und Polymertechnologie,  
Universität Potsdam,  
Geiselbergstraße 69, 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 5.8.

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 (Polymers and Plastics)

## Contact Us

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](https://twitter.com/Polymers_MDPI)