

Special Issue

Natural Polymers: Synthesis, Properties and Applications

Message from the Guest Editor

To achieve carbon neutrality and develop an environmentally friendly and efficient pretreatment process for the high-value utilization of biomass, this Special Issue focuses on research related to the thermal conversion of biomass, emphasizing its composition and structure. Manuscripts focusing on the following topics are highly welcome: novel directional regulation mechanism of biomass structure; composition based on the enrichment of target products; new theoretical technologies and equipment based on pyrolysis, pyrolysis, and purification of biomass; integrated value-added biomass utilization and co-generation; and high-value comprehensive utilization of biomass components, etc.

Guest Editor

Dr. Xiwei Xu

College of Engineering, South China Agricultural University, Guangzhou 510640, China

Deadline for manuscript submissions

closed (30 June 2025)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/225332

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



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



About the Journal

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 4.7.

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.

Editor-in-Chief

Prof. Dr. Alexander Böker

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

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)