# Special Issue

# Advances in Natural Polymers: Cellulose and Lignin

### Message from the Guest Editors

Cellulose and lignin polymers can be obtained from various wastes, modified, processed, and used in green chemistry, sustainable materials, and composites. In addition, various polymers can be reinforced with natural polymers and used in the production of polymer nanocomposites, bio-based chemicals, and natural biomaterials. Recently, attention have been paid to value-added chemicals, biofuels, and polymeric materials derived from lignin and cellulose. Natural polymers also have the potential to be used as adsorbents in wastewater treatment, with all these applications being based on their chemical, thermal, and mechanical properties. This Special Issue is dedicated to the newest research trends in the field of natural polymers and the development of a new generation of sustainable materials and biofuels. Topics covered by successful submissions may include, but are not limited to, the characterization of natural polymers, the production of sustainable polymer composites, the production of new polymers from waste biomass, polymer nanocomposites, cellulose- and lignin-based composites, value-added chemicals, biofuels, wastewater treatment, and life cycle assessments.

### Guest Editors

Dr. Eniko Kovacs

INCDO INOE 2000, Research Institute for Analytical Instrumentation, Cluj-Napoca, Romania

Dr. Lacrimioara Senila

INCDO INOE 2000, Research Institute for Analytical Instrumentation, Cluj-Napoca, Romania

### Deadline for manuscript submissions

30 September 2025

## Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/232763

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

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

MDPI

# 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 )