

Special Issue

Derived Polymers from Biomass and Wastes

Message from the Guest Editors

This Special Issue will focus on developing sustainable polymers synthesized from biomass, industrial/agricultural waste materials, and their applications. It will highlight novel strategies for converting lignocellulosic residues, food waste, and biogenic feedstocks into biopolymers such as polylactic acid (PLA), Polyhydroxyalkanoates (PHA), cellulose, starch, lignin, etc., and their composites. Emphasis will be placed on green processing technologies, material characterization, and the environmental advantages of bio-derived polymers over petrochemical alternatives. Notable applications include packaging, biomedical devices, and structural composites, which will also be discussed.

Guest Editors

Dr. Niyi Olaiya

Department of Plastics Engineering, Francis College of Engineering,
University of Massachusetts Lowell, Lowell, MA, USA

Dr. Chrysanthos Maraveas

Farm Structures Lab, Department of Natural Resources and Agricultural
Engineering, Agricultural University of Athens, Athens, Greece

Deadline for manuscript submissions

31 August 2026



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/247869

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 4.9.

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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)