



Biodegradable Polymers for Sustainable Development

Guest Editors:

Prof. Dr. Marek M. Kowalczyk

Centre of Polymer and Carbon
Materials, Polish Academy of
Sciences, M. Curie-Skłodowskiej
34, 41-819 Zabrze, Poland

Prof. Dr. Piotr Kurcok

Centre of Polymer and Carbon
Materials, Polish Academy of
Sciences, M. Curie-Skłodowskiej
34, 41-819 Zabrze, Poland

Deadline for manuscript
submissions:

closed (30 June 2024)

Message from the Guest Editors

Biodegradable polymers play a crucial role in promoting sustainable development by addressing environmental concerns associated with traditional, non-biodegradable plastics. These polymers are designed to break down into natural compounds, such as water, carbon dioxide, and biomass, through biological processes, reducing their impact on ecosystems and landfills. The development of biodegradable polymer materials necessitates evaluating and understanding the relationships between their structure, properties, and behavior before, during, and after practical applications. The precise design of such materials is necessary to avoid the potential failure of the commercial products manufactured from them and to avoid potential environmental consequences. Thus, biodegradable polymers are an important component of sustainable development efforts, helping to reduce the environmental impact of plastics and promote more responsible resource use. This Special Issue welcomes papers that address the interdisciplinary approach to develop biodegradable polymer materials for environmental needs.





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 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.

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](#)