

Special Issue

Biodegradable Polymers and Their Emerging Applications

Message from the Guest Editors

In recent years, the detrimental impact of traditional non-biodegradable polymers on ecosystems and human health has prompted a shift towards sustainable and benign alternatives. Biodegradable polymers are pivotal in addressing the global plastic pollution crisis by offering eco-friendly options. These polymers help alleviate the burden on ecosystems and oceans by breaking down naturally over time into non-toxic components. Even though well-known biodegradable polymers are available on the market, presenting alternatives for different applications, the range of choices is still quite limited. Additionally, biodegradable polymers confront challenges regarding mechanical properties, cost, scalability, and public awareness. This Special Issue aims to curate novel advances in the development of biodegradable polymers and their emerging applications. We invite you to contribute by sharing your innovative research results, fostering a deeper understanding, and promoting the widespread dissemination of knowledge on biodegradable polymers.

Guest Editors

Dr. António Aguiar

Dr. Mónica V. Loureiro

Dr. Rui Galhano Dos Santos

Deadline for manuscript submissions

31 August 2025



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/194578

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)