

Special Issue

Advances in Biodegradable Medical Polymers: From Molecular Design to Application

Message from the Guest Editor

Biodegradable polymers have gained increasing attention in the biomedical field due to their ability to degrade safely in physiological environments and eliminate the need for surgical removal. These materials are widely used in tissue engineering, drug delivery systems, wound healing, and implantable devices. This Special Issue aims to highlight recent developments in biodegradable medical polymers, covering the entire spectrum from molecular design and synthetic strategies to processing techniques and clinical applications. Emphasis will be placed on the relationship between polymer structure and biological performance, degradation behavior in vivo and in vitro, and functional modifications for targeted therapeutic outcomes. Submissions focusing on emerging concepts such as self-healing biomaterials, bioresorbable electronics, and polymer-based scaffolds for regenerative medicine are especially welcome. By gathering interdisciplinary research in chemistry, materials science, biomedical engineering, and translational medicine, this Special Issue seeks to foster innovation in the development of next-generation biodegradable medical polymers.

Guest Editor

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Deadline for manuscript submissions

30 March 2026



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/251036

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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

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