



Biodegradable Polyesters: Synthesis, Properties, Applications

Guest Editors:

Dr. Anatoly Boyandin

1. Scientific laboratory "Smart Materials and Structures", Reshetnev Siberian State University of Science and Technology, 660059 Krasnoyarsk, Russia

2. Institute of Biophysics of Siberian Branch of Russian Academy of Sciences (SB RAS), Federal Research Center "Krasnoyarsk Science Center SB RAS", 660036 Krasnoyarsk, Russia

Dr. Anna Sukhanova

Scientific laboratory "Smart Materials and Structures", Reshetnev Siberian State University of Science and Technology, 660059 Krasnoyarsk, Russia

Deadline for manuscript submissions:

closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

Biodegradable polyesters are one of the most important classes of biodegradable polymers, obtained biotechnologically, chemically from biotechnologically obtained precursors, or purely by chemical synthesis, and can potentially be applied in regenerative medicine, manufacturing of packaging materials, and in the development of controlled delivery systems for medicines and other biologically active agents.

The main topics of the current Special Issue include the biological and chemical synthesis of biodegradable polyesters, including copolymers; the physico-chemical modification of polyesters and polymer structures to improve their properties and performance characteristics; methods of processing polyesters and polyester-based composites into materials and products with specified properties; in vitro, in vivo, and clinical trials of newly designed polymer materials; patterns of the microbial and non-biological degradation of polyesters; release patterns of biologically active agents from controlled delivery systems; topical reviews on the current state and challenges in the field of synthesis, processing, and application of polyesters.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 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 5.0.

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