

## Special Issue

# Biodegradable Polymers: Synthesis, Characterization and Applications

### Message from the Guest Editors

Biomaterials have attracted intense interest for solving problems such as increase in CO<sub>2</sub> gas emission, exhaustion of petroleum resources, and expansion of microplastics. As bio-based materials, biomass polymers, which are made from plant-based raw materials such as corn and sugarcane, are well known. Although CO<sub>2</sub> gas is emitted by burning biomass polymers, carbon recycling can be achieved through photosynthesis of plant growth. As another significant material, biodegradable polymers, which are decomposed into CO<sub>2</sub> and H<sub>2</sub>O in nature by microorganisms, have been widely researched all over the world, with some studies focusing on marine decomposed polymers to solve the problem of microplastics in the ocean. For the construction of a sustainable society, it would be necessary to develop technologies for the efficient production of materials from biomass and for the development of materials with a low environmental impact. Thus, this Special Issue invites researchers to submit original research and review articles on biodegradable polymers, describing their synthesis, processing, the course of degradation, as well as examples of various interesting applications.

### Guest Editors

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### Deadline for manuscript submissions

closed (15 October 2024)



## Polymers

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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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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