

## Special Issue

# Microorganisms Cell Factories for Biobased and Biodegradable Plastics

### Message from the Guest Editor

Plastic pollution is one of the main concerns worldwide because the accumulation of plastic objects and particles is negatively affecting wildlife, marine and terrestrial ecosystems and in general wellness of all living beings including human beings. To decrease plastic pollutions, several policies are being implemented worldwide including the reduction of plastic consumption, promotion of plastic recycling and the support of processes in which biodegradable plastics are made. Several microorganisms have revealed as potential producers of polymers able to replace those plastics obtained by chemical-based approaches. Biopolymers such as polyhydroxyalkanoates are produced in nature by numerous microorganisms thanks to fermentation of sugars or lipids. More than 150 different monomers can be combined within this family to give materials with extremely different properties, which behave as biodegradable plastics. This Special Issue is dedicated to “Microorganisms as cell factories to produce biobased and biodegradable plastics.” Colleagues are cordially invited to contribute original research papers or reviews to this Special Issue.

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### Guest Editor

Prof. Dr. Rosa María Martínez-Espinosa  
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### Deadline for manuscript submissions

closed (25 July 2022)



## 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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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