Special Issue

Production of Polyhydroxyalkanoate (PHA) Biopolymers from Waste Materials

Message from the Guest Editor

Problems related to plastic waste and its negative effects on the environment have resulted in the emergence of a wide range of biodegradable polymer materials. Among the biomass-derived polymers, there is a growing interest in polyhydroxyalkanoates (PHAs). They are polyesters synthesized intracellularly by microorganisms and stored as reserve materials, allowing for survival under unbalanced nutritional conditions. Despite the highly satisfactory properties of PHAs, their production costs are still high compared with their synthetic alternatives. Therefore, there is a growing need for the development of novel microbial processes using inexpensive carbon sources. Such substrates could be waste materials that create problems with waste management and water pollution. This Special Issue intends to cover the latest developments in the microbial synthesis of polyhydroxyalkanoates using waste streams. Topics will include the utilization of wastes for PHAs production by pure, recombinant, and mixed microbial cultures; new approaches to produce PHA in a sustainable fashion; novel microbes as PHAs producers; and polymer characterization.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/53270

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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.

Editor-in-Chief

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