Special Issue

Advances and Current Challenges in Cellulase Recycling

Message from the Guest Editor

A rising demand for energy and other items commonly based in the petrochemical industry is creating alarming levels of greenhouse gas (GHG) emissions. Accordingly, great efforts have been made in targeting cleaner energy sources and alternative routes to chemical synthesis. In this sense, lignocellulosic materials have increasingly been used as a promising source of cellulose. However, the cost of cellulase remains one of the main bottlenecks of lignocellulosics conversion. The concept of cellulase recycling - enzyme recovery and reutilization on a subsequent round - has been getting increasing attention in regards to the role it plays in achieving important enzyme savings. This Special Issue will focus on recent advances over processes of cellulase recovery and reutilization, either referring to distinct enzyme recovery methods or new recycling schemes. Additionally, it will also look for the main challenges associated with a viable implementation of cellulase recycling on the hydrolysis of lignocellulosic materials.

Guest Editor

Dr. Daniel Gonçalves Gomes CEB–Centre of Biological Engineering, Campus de Gualtar, Universidade do Minho, 4710-057 Braga, Portugal

Deadline for manuscript submissions

closed (20 June 2022)



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



mdpi.com/si/69288

Polymers Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 polymers@mdpi.com

mdpi.com/journal/

polymers





Polymers

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.7 Indexed in PubMed



polymers



About the Journal

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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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)