



Advances and Current Challenges in Cellulase Recycling

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Daniel Gomes

Guest Editor





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