Special Issue

Valorization of Renewable Resources for the Production of Biobased Products Through the Implementation of Circular Bioeconomy Principles: Second Edition

Message from the Guest Editor

The increasing generation of waste and the reduction of primary resources are major problems faced by contemporary society and are closely interlinked with escalating raw material costs. The efficient management of resources is of outmost importance in terms of meeting sustainability targets. An alternative approach, the circular bioeconomy, would convert end-of-life goods into resources, minimizing waste and replacing production with sufficiency. The transition to a low-carbon economy must be based on the utilization of renewable resources, incorporating novel technologies and bioprocessing to provide clean energy, green chemicals, and biodegradable and safe products of high quality and functionality. Keywords

- biobased production
- renewable biomass
- life cycle assessment
- carbon neutral bioeconomy
- pretreatment
- waste management
- environmental footprint
- biofuels
- genetic approaches
- transition to biocircularity

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