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Thermochemical and Chemi-Mechanical Conversion of Bio-Polymers into Value-Added Products

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Deadline for manuscript submissions: closed (5 June 2023)

Message from the Guest Editors

Biomass wastes are promising but often overlooked renewable sources of biofuels, biochemicals and biomaterials. Due to environmental pollution and global warming, there is an urgent need to find alternatives to fossil-based resources. In this scenario, the development and understanding of both fundamental and practical applications of biomass resources and their conversion processes and products seem to be attractive with increasing research interest.

The objective of this Special Issue is to explore innovative research on process development and optimization, catalytic/non-catalytic reaction mechanisms. chemi-mechanical thermochemical conversion. and extraction of biopolymers (cellulose, hemicellulose, and lignin) from biomass and their characterization and applications in industrial processes. The topics include the conversion of cellulose, hemicellulose and lignin, and other biopolymers via thermochemical conversion technologies inducing torrefaction, pyrolysis, and gasification under both conventional and hydrothermal/microwave heated conditions



mdpi.com/si/128211







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Message from the Editor-in-Chief

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