

Special Issue

Biochemical and Thermochemical Conversion Processes of Lignocellulosic Biomass Fractionated Streams

Message from the Guest Editors

It has been recognized that efficient use of all the main fractions of lignocellulosic biomass (cellulose, hemicellulose, and lignin) is an important step towards a financially sustainable biomass biorefinery. To this context, switching from biomass pretreatment to biomass fractionation can offer a sustainable solution to recover relative clean streams of cellulose, hemicellulose, and lignin. This Special issue aims at exploring the most advanced solutions in biomass and waste pretreatment and fractionation techniques, together with novel (thermo)chemical and biochemical processes for the conversion of fractionated cellulose, hemicellulose and lignin to bioenergy, bio-based chemicals, and biomaterials, including application of such products (i.e., use of biochar for filtration and metallurgical processes), as well as recent developments in kinetic, thermodynamic, and numeric modeling of conversion processes. The scope of this Special Issue will also cover progress in advanced measuring methods and techniques used in the characterization of biomass, waste, and products.

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