

Special Issue

Platform Chemicals and Novel Materials from Biomass

Message from the Guest Editors

The current situation of global economic growth, with a significant number of extraordinarily populated emerging countries, coupled with environmental degradation and the finite nature of mineral and fossil resources, may find a solution, at least partially, in the use of resources created by living beings through photosynthesis and a wide range of metabolic transformations: biomass. At the same time, the knowledge acquired during the 20th century in the transformation of fossil and biomass resources (food, paper and cellulose) is the cognitive basis for the creation of the biorefinery concept and the underlying technologies. This Special Issue focuses on the final, transformative part of these biomass resources into chemicals and materials that are to supplement, first and foremost, and ultimately replace those coming from fossil resources. This transformation is based on heat-driven and catalytic/biocatalytic processes.

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