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Lignocellulosic Biomass Catalysis

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Message from the Guest Editors

Dear Colleagues,

Renewable resources play a predominant role in our future economy. The conversion of highly heterogeneous lignocellulosic matrices relies on a cascade of transformation steps, amongst which the preliminary one, called "pretreatment", is crucial. This pretreatment allows the cracking of lignocellulosic biomass into its major components. Both the efficiency and selectivity of this pretreatment can be modulated by the addition of specific catalysts: thermo-stable and/or oxophilic, homogeneous or heterogeneous. The suitable selection of a specific catalyst is a key factor in order to convert lignocellulosic biomasses into targeted intermediates; platform chemicals or energy vectors.

We encourage scientists working on biomass conversion to contribute to this Special Issue with original research or review articles covering the fundamental study of the role of catalysts in the conversion of lignocellulosic biomass. We propose an overview of the main "catalytic initiatives" all over the world.

Keywords. renewable resources; lignocellulose; biofuels; bioplastics; catalysts; chemical catalysts; thermochemical conversions; platform chemicals













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