Special Issue

Catalytic Conversion of Biomass to Added Value Chemicals

Message from the Guest Editors

Due to the decrease of fossil carbon raw materials and to environmental concerns, the scientific community is trying to find an alternative to produce fine chemicals and fuels. Hence, the valorization of renewable resources such as lignocellulosic biomass and vegetable oils have been widely studied. From these raw materials, carbohydrates, furan derivatives, glycerol and fatty acids/esters are interesting molecules that can be converted into a wide range of chemicals. In this chemistry, the nature of the catalyst and the productivity are of prime interest to develop a process that can be used at an industrial level. Many reactions such as amination, oxidation, hydrogenation are used to convert carbohydrates, furan derivatives, glycerol and fatty acids/esters to added value chemicals. These reactions can be combined and bi- or multi-functional catalysts are used. This Special Issue welcomes the submission of original papers or reviews related to the field of catalytic conversion of biomass and aims to cover scientific works dealing with the use of catalysts (homogeneous and heterogeneous and enzyme catalysts).

Guest Editors

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