

Special Issue

Catalytic Conversion of Biomass to Biofuels

Message from the Guest Editors

Biomass is considered to be the fourth largest source of energy on Earth. Biofuels, such as biodiesel, biogas, and bioethanol, have been recognized as novel alternatives for overcoming the energy crisis, due to the availability of feedstocks (nonedible oils, animal fats, and biomass wastes) for the conversion of biofuels through different chemical processes and technologies. Biomass can be converted into biofuel through the use of various methods, but catalysts play a vital role in all conversion processes and multiple types of catalysts having been explored for the production of biofuels over recent years. Waste biomass-based catalysts (carbon-based catalysts) have been widely explored in all fields, receiving great attention due to its silent features, such as porosity, high surface area, higher thermal and mechanical stability, easily tunable properties, and low cost, as compared to metal-based catalysts. This Special Issue aims to provide a platform for researchers from different backgrounds to published their original research and review paper, short communications, and brief reports concerning the catalytic conversion of biomass to biofuel.

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