



Sustainable Catalytic Conversion of Biomass for the Production of Biofuels and Bioproducts

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Message from the Guest Editors

Biomass is widely considered a potential alternative to dwindling fossil fuel reserves. There is a large variety of biomass sources (oleaginous, lignocellulosic, algae, etc.), with many possible conversion routes and products, and currently it is, not just viewed as a source of biofuels, but also as an interesting feedstock for the production of bio-based chemicals that could largely replace petrochemicals. Submissions of this Special Issue are welcome: fundamentals and applied catalysis in the context of biorefineries; catalytic routes for direct polysaccharides, lignin, and raw biomass transformation; catalytic transformation of lignocellulosic platform chemicals; catalytic transformation of vegetable oils, fats, algae and oleaginous chemicals; catalytic upgrading technologies for bio-oils; modeling aspects of the processes and mechanistic studies; molecular insights in processing of biomass; development of analytic tools, in situ characterization techniques.

