

Special Issue

Advanced Catalysts for the Production of Fuels or Chemicals from Biomass

Message from the Guest Editors

Demand for alternative and clean energy is progressively increasing due to the depletion of fossil reserves. In this context, a sustainable approach for the conversion of lignocellulosic biomass to high-value chemicals and fuels is of urgent need. This Special Issue on “biomass conversion” thus showcases the most recent discoveries and significant developments in the conversion of lignocellulosic biomass to platform chemicals and fuels. Among other conventional pathways employing high T&P, methods for biomass conversion including electrochemical, sonochemical and microwave routes show significant resource recovery in a relatively mild and convenient way. Unlike conventional catalysts, the progressive use of mesoporous polymers, covalent organic frameworks (COFs) and metal–organic frameworks (MOFs) shows a significant difference in the selectivity of the desired products due to the unique properties of the porous hosts and the interaction with the active sites. We, therefore, welcome all original papers and short reviews encompassing the above subject line for submission.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)



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