Special Issue

Heterogeneous Catalysts for Biomass Conversions

Message from the Guest Editor

With the increasing demand for sustainable energy sources, biomass has emerged as a promising alternative to fossil fuels, despite its efficient conversion into valuable fuels and chemicals remaining a significant challenge. This Special Issue aims to provide a comprehensive overview of the latest advancements in heterogeneous catalysts for biomass conversion. We invite researchers to submit original research articles, reviews, and perspectives that focus on the development, application, and optimization of heterogeneous catalysts in various biomass conversion processes. Topics of interest include but are not limited to the synthesis and characterization of novel catalysts, catalytic mechanisms, process optimization, and economic and environmental assessments. By bringing together cutting-edge research in this field, we hope to foster further innovation and progress towards sustainable biomass utilization.

- biomass conversion
- polyol oxidation
- biofuels
- heterogeneous catalysis
- nanocatalytic materials

Guest Editor

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