

Special Issue

Design of Functional Catalysts for Biomass Transformation into High Value-Added Commodities

Message from the Guest Editors

Replacing fossil resources with biomass, the sole organic carbon source, has recently attracted much attention because it may reduce reliance on fossil resources. Catalytic chemical processes may facilitate catalytic materials to increase product yields. This Special Issue explores the design and synthesis of novel, demanding, and robust catalytic systems for biomass transformation to address energy-related concerns with enormous potential for academic and industrial domains. This Special Issue will present high-quality, original research articles, communications, and reviews covering many recent advances in biomass valorization.

Potential topics include, but are not limited to: biomass valorization, lignocellulosic biorefineries, feedstock characterization and pretreatments, development of homogeneous and heterogeneous catalysts, liquid-phase and vapor-phase processes, catalytic processes, characterization and analytical techniques, biomass derivative chemicals, electro/photo/photoelectro catalytic biomass conversions, biomass-derived biofuels and their additives, and conversion pathways

Scan the QR code for more information.

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Deadline for manuscript submissions

closed (30 June 2023)



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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).