Special Issue

Catalysis: Synthesis of Fuels from Biomass

Message from the Guest Editors

Fuels derived from biomass are currently the only sustainable source of liquid fuel. The efficient production of biofuels can not only ensure energy security, but also accelerate sustainable development and carbon neutrality. Catalysis is the key to unlocking the enormous potential of converting biomass into a variety of liquid fuels in a sustainable way. Therefore, this Special Issue of *Catalysts* will highlight recent developments in the catalytic conversion of biomass and biomass-derived platform compounds into biofuels and biodiesel. The welcome submissions of original research and review articles by researchers from all disciplines investigating topics relevant to the synthesis of fuels from biomass, including, but not limited to, the following: Catalytic synthesis of high-density or novel biofuels; Catalytic hydrogenation or catalytic cracking of biomass to biofuels; Thermocatalysis for biomass conversion including pyrolysis, gasification, the Fischer–Tropsch process and hydrothermal liquefaction; Photocatalysis for biomass conversion; C-C coupling reaction for biomass conversion; Biological fermentation for biofuel production.

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