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Catalysts in Sustainable, Industrial Processes in Biorefinery and Bioeconomy

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

Sustainable economic growth requires safe and clean resources, but the availability of fossil resources is questionable in the long-term. Since the beginning of the 1990s, utilization of biomass as a renewable resource has been considered as a key solution to reduce the rapid consumption of fossil resources. The use of biomass was also found to benefit from reducing the environmental impact by decreasing pollutant and hazardous emissions. For this reason, many studies have been conducted on biorefinery technologies for biofuels, bioenergy, and bio-based products. Biorefinery technologies have evolved to become practical on a large scale as the accumulated chemical process knowledge is applied to the bio-based systems. Ongoing research and development activities for biomass will pave the way towards potential realization of a sustainable bio-based economy.

This Special Issue aims to cover the most recent advances in the industrial processes or catalytic materials for biorefinery and bioeconomy. This includes an extensive research area based on biofuels, bioenergy, and bio-based products.