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Bioenergy Production and the Valorization/Disposal of Byproducts/Coproducts from Bioenergy Production Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editor

Biomass, such as lignocellulosic biomass and protein-rich biomass or organic wastes, is a renewable and sustainable carbon-neutral (or even carbon-negative) resource. Biomass can be used to produce bioenergy such as biodiesel, bio-oil, biochar, biogas, and syngas by pyrolysis, hydrothermal carbonization/carbonization; torrefaction; anaerobic digestion; fermentation, and other bio-/physico-chemical treatments. These bioenergy products are becoming increasingly important to replace fossil fuels and mitigate climate change. However, there are many bottlenecks during the collection and pretreatment of biomass, design of reactors and process integrations, catalyst deactivations and inovations, product engineering and separations, and byproducts/coproducts valorization/disposal. These issues are waiting to be solved to increase the economic and environmental feasibilities and promote the industrialization and commercialization of bioenergy production.

This Special Issue aims to collect recent outstanding experiment, modeling, or data-driven based studies and reviews in bioenergy production and the valorization/disposal of byproducts/coproducts from bioenergy production systems.

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Editor-in-Chief

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Message from the Editor-in-Chief

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