Special Issue

Recent Advances in Biorefining Processes

Message from the Guest Editor

Enhancing the industrial utilization of lignocellulosic and other waste biomass is a key element to move towards a more sustainable and circular economy. Realizing this goal requires advances and the deployment of energy-efficient and clean processing technologies, as well as the development of integrated biorefineries to optimize the utilities usage, lowering investment, and making full use of the raw materials. This Special Issue aims to curate both experimental and theoretical latest advances in biorefining processes, focusing on second-generation feedstocks and including, but not limited to, the following topics:

- Prediction methods for thermophysical properties for biorefinery process engineering
- Development and optimization of biomass thermochemical and biochemical conversion technologies
- Emerging separation technologies
- Process intensification of biorefining operations
- Process integration including links with other infrastructures (e.g., oil refinery, pulp & paper mills, CCUS systems)
- Waste heat recovery in biorefineries
- Techno-economic analysis and sustainability assessment

Guest Editor

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Message from the Editor-in-Chief

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Editor-in-Chief

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