Special Issue

Integrated Biorefineries for Sustainable Production of Biofuel and Bioproducts

Message from the Guest Editors

Lignocellulosic biomass, including agricultural and forestry residues, municipal waste, and by-products from agro-food processing, offers an abundant, renewable carbon source for biofuel and bioproduct production. When processed within a biorefinery, this diverse biomass can be fractionated to generate multiple products, thereby significantly improving process economics. This Special Issue invites original research articles that explore integrated biorefinery approaches designed to utilize multiple components of lignocellulosic biomass for the production of biofuels, biochemicals, and high-value bioproducts to maximize the value extracted from raw materials. We seek studies that provide experimental insights into biomass conversion techniques, including, but not limited to, thermal–chemical, biochemical, and catalytic processes for refining biomass fractions into diversified product portfolios. Additionally, we encourage sustainability-oriented research that conducts techno-economic analysis (TEA) and life cycle assessment (LCA) to evaluate the economic and environmental impacts of integrated biorefinery systems.

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Deadline for manuscript submissions

closed (20 July 2025)

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Editor-in-Chief

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