

Special Issue

Industrial Bioprocessing of Organic Biomass for Value Addition: Linear-to Circular-Bioeconomy

Message from the Guest Editors

Globally, ~140 gigatons per year of biomass is discarded as waste, contributing to a significant environmental burden. This Special Issue therefore aims to compile an up-to-date overview of the current knowledge on bioprocessing organic biomass as food–feed–fuel supplements, raw materials, chemicals and other value-added products to promote the circular bioeconomy. The circular bioeconomy is a regenerative and restorative approach aimed at achieving a low-carbon and sustainable economy as an alternative to the fossil-based linear economy model. In a circular bioeconomy, renewable organics are used to substitute industrial fossil-based raw materials and recycled as much as possible within or beyond the defined boundaries. However, this approach is in the early stages of conceptualization and implementation across the globe, and few countries have proposed a policy supporting industrial initiatives to phase out fossil fuel feedstocks. The implementation of a circular bioeconomy is expected to accelerate the achievement of net-zero carbon emission targets and reduce waste generation to ultimately benefit the environment

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