



The Role of Biorefineries in Circular Economy

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Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

Energy markets and our dependence on fossil fuels worldwide have been facing economic, environmental, and technological challenges. Nowadays, more than ever, countries must focus on their energy independence and shift from utilizing fossil fuels as the primary source of energy, platform molecules, and the main driver of current food systems. It is crucial to promote the development and adoption of sustainable, cost-effective, and reliable alternative feedstocks for biofuels, energy carriers, polymers, functional food and feed ingredients, as well as biofertilizers. Moreover, non-food feedstocks, aquatic cultivated feedstocks, and genetically modified organisms can successfully produce electricity, heat, and fuel while treating municipal and industrial sidestreams, key aspects to reaching a sustainable circular economy.

This Special Issue addresses the limitations and challenges of global bulk and specialty chemicals production and their utilization. It promotes and investigates the utilization of bioresources and biotechnologies to produce value-added functional products and biochemicals in all stages of the supply chain (upstream, production, and downstream processes).





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Message from the Editor-in-Chief

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