biomass

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Biorefineries, Circular Cities, and the Bioeconomy

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Message from the Guest Editors

Biomass is composed of organic materials originating from plants or animals such as crop waste, forestry residues, agricultural residues, algae, energy crops, and food wastes. The biosphere reaction to anthropogenic disturbances is increasingly shown in natural disasters across the world. With the world population passing eight billion in 2022, there is an increasing rate of global awareness about the journey toward a bioeconomy or net-zero economy. Biomass, the very original source of human energy, plays a key role in the net-zero journey toward circular cities. However, the future utilisation of biomass is more complex than conventional approaches such as biogas.

This Special Issue is dedicated to methodological research works in regard to the role of complex biorefineries in the net-zero economy. The articles can address various aspects including technology, lifecycle, policy, economic, and social aspects.