

## Special Issue

# Anaerobic Digestion and Sustainable Integrated Biorefinery

### Message from the Guest Editors

Anaerobic digestion systems have been the backbone of rural waste management in developing countries, with the incentive of utilizing the produced biogas as fuel; simultaneously, the digestate can be repurposed as a soil quality enhancer. Anaerobic digestion (AD) can degrade a large variety of organic wastes, such as food and agro-waste, due to the presence of reactor microbiome. The integration of the anaerobic digestion process with different bioprocesses (microbial, algal etc.) and thermochemical processes has led to the concept of anaerobic digestion-Based biorefineries (ADBB) being developed, strengthening the zero-waste concept of sustainable development. The utilization of liquid effluents, released from bioprocesses in microbial fuel cell for bioelectricity generation, can further strengthen the development of sustainable biorefinery. The biochar generated through pyrolysis of AD digestate can again be introduced into AD for process enhancement. This Special Issue welcomes the submission of original research articles and critical review articles incorporating anaerobic digestion process from disciplines related to sustainable biorefineries.

### Guest Editors

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### Deadline for manuscript submissions

closed (27 February 2024)



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