



From Waste to Energy: Anaerobic Digestion Technologies

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Message from the Guest Editors

Due to the current global energy crisis and the ambitious Net Zero emissions plans issued by various governments, it is imperative to focus on the development of new sustainable and renewable energy sources. In the last few years, the concept “Waste to Energy” (WtE) has become crucial. This is related to processes involving waste for the production of energy in the form of either heat and/or electricity and/or its transformation into a fuel source. In this context, Anaerobic Digestion (AD) is widely recognized and applied in biomass treatment, mainly in biogas production from microbial degradation. The AD technology offers versatility for implementation in the industry sector or communities, offering benefits such as solid waste reduction, water treatment, and obtention of valuable by-products such as biogas and digestate.

However, AD still faces challenges such as feedstock availability, biomass biodegradability, management, process control and design, automatization, etc.

This Special Issue aims to present and disseminate the most recent advances in anaerobic digestion technology, including the complementing technologies that can enhance the process.





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Message from the Editor-in-Chief

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