



Anaerobic Digestion for the Production of Energy and Chemicals

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Message from the Guest Editor

Anaerobic digestion (AD) for the production of biogas is the classic example of a resource recovery process that combines stabilization of particulate organic matter or wastewater treatment with the production of a valuable end-products. Its Attractive features include the production of a single end-product from a heterogeneous feedstock, and in-situ product separation of the gaseous end-product. Despite the properties, the economic added value of the biogas produced is limited, enabling the development of alternative processes. Typically, the production of higher value end-products from low value feedstock and industrial wastewater proceeds via intermediate production of carboxylic acids (CAs), i.e. short-chain carboxylic acids (SCCAs) and medium-chain carboxylic acids (MCCAs). Overall, we suggest that these bioprocessing routes will contribute to a sustainable future and change the economic status of organic wastes and wastewater. The SI aims to gather articles on energy and chemicals production from organic wastes and wastewater, such as biometane, biohydrogen, SCCAs, MCCAs, the conversion of CAs, power to gas, microbiome analysis and separation system applications of AD.





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Message from the Editor-in-Chief

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