



Current Advances in Anaerobic Digestion Technology

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Deadline for manuscript
submissions:

closed (30 June 2020)

Message from the Guest Editors

Anaerobic digestion (AD) has been used for decades to treat various waste streams and to produce methane-rich biogas as an important energy carrier from various wastes and crops. A great variety of substrates can be utilized for AD, including gaseous ones, such as syngas, for example from biomass gasification or hydrogen obtained by the electrolysis of water using electricity from other renewables. AD can be combined with new (bio)technologies, such as (bio)electrochemical technologies, to enhance the efficiency of the process. The product spectrum can also be diversified by shifting AD to anaerobic fermentation, which will lead to the production of carboxylates with a higher economic value. Chemical building blocks can also be obtained by converting methane to methanol, or higher value single-cell proteins can be produced by methanotrophic bacteria.

This Special Issue of *Bioengineering* will publish research articles and review papers dealing with the current advances in the fascinating process of anaerobic digestion and its related processes.





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Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

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