



Anaerobic Digestion Technology: An Update

Guest Editors:

Dr. Peter Kornatz

Biochemical Conversion
Department, DBFZ Deutsches
Biomasseforschungszentrum,
Leipzig, Germany

Dr. Jörg Kretzschmar

Biochemical Conversion
Department, DBFZ Deutsches
Biomasseforschungszentrum,
Leipzig, Germany

Dr. Marcell Nikolausz

Department of Environmental
Microbiology, Helmholtz
Zentrum für Umweltforschung,
Leipzig, Germany

Deadline for manuscript
submissions:

closed (17 February 2023)

Message from the Guest Editors

Biomass degradation under anoxic conditions includes a variety of natural microbial processes, which have a long tradition of biotechnological utilization. AD is a popular, mature technology, and our knowledge about the influencing process parameters as well as about the diverse microbial communities involved in the process has increased dramatically over the last few decades.

However, the AD sector also faces current challenges, such as feedstock availability and price increases, competitiveness of the products, as well as a lack of process monitoring and automation technologies.

On the other hand, AD offers so much more than biogas alone, and the metabolic flexibility of AD can be the answer to the current challenges. AD can be combined with new (bio)technologies, such as (bio)electrochemical technologies, to enhance the efficiency of the process. Chemical building blocks can also be obtained by converting methane to methanol, or higher value single-cell proteins can be produced by methanotrophic bacteria.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical
Engineering, Texas A&M
University, College Station, TX
77843, USA

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Biomedical)

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2024).

Contact Us

Bioengineering Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/bioengineering
bioengineering@mdpi.com
[X@Bioeng_MDPI](https://twitter.com/Bioeng_MDPI)