

Special Issue

Anaerobic Digestion of Food Waste: New Research, Challenges and Opportunities

Message from the Guest Editors

Anaerobic Digestion (AD) is one of the most suitable technologies for stabilizing organic wastes. As the biogas industry moves towards energy production, food waste is becoming a promising substrate for AD. On the other hand, although AD is consolidated and widely applied in the treatment of wastewater, the adoption of AD for food waste management still faces a number of technical and economic challenges. Recent research on different strategies to enhance AD of food waste—including co-digestion, addition of micronutrients, control of foaming, improved process design and integration of AD in combined biorefinery processes—have been proposed. However, further efforts are required to effectively improve the AD process from food waste. The goal of this Special Issue is to publish both recent innovative research results and review papers on strategies to enhance AD of food waste, increasing understanding of the fundamental biological process and techno-economic analyses. Submissions concerning the most recent applications of anaerobic processes (e.g., dark and photo fermentation) are also of interest.

Guest Editors

Prof. Dr. Massimiliano Fabbricino

Department of Civil, Architectural and Environmental Engineering,
University of Naples Federico II, Via Claudio 21, 80125 Naples, Italy

Dr. Grazia Policastro

Department of Civil, Architectural and Environmental Engineering,
University of Naples Federico II, 80125 Naples, Italy

Deadline for manuscript submissions

closed (28 February 2023)



Fermentation

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.7



mdpi.com/si/109700

Fermentation
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fermentation@mdpi.com

[mdpi.com/journal/
fermentation](https://mdpi.com/journal/fermentation)





Fermentation

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.7



[mdpi.com/journal/
fermentation](https://mdpi.com/journal/fermentation)



About the Journal

Message from the Editor-in-Chief

Welcome to a new open access journal, Fermentation, which meets the growing need for a high quality peerreviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this new journal and look forward to working with you to make Fermentation a leader in its field. Your contributions are vital for the success of this new journal. Proposals for editing a special issue for a particular topical area are always welcome.

Editor-in-Chief

Dr. Badal C. Saha
Retired, National Center for Agricultural Utilization Research, USDA-
ARS, Peoria, IL, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, FSTA, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biotechnology and Applied Microbiology) /
CiteScore - Q1 (Plant Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).