

Special Issue

Advanced Bioconversion and Valorization of Organic Solid Waste

Message from the Guest Editor

We are inviting research papers and reviews that provide novel insights into the high-value fermentation and conversion of organic solid waste. The aim of this Special Issue is to highlight the latest findings in converting substrates like sludge and food waste into bioenergy and biochemicals. Topics of interest include, but are not limited to:

- Production of short-chain fatty acids, medium-chain fatty acids, hydrogen, methane and single-cell protein from organic solid waste.
- Novel pretreatment and conditioning technologies to enhance bioavailability.
- Synergistic effects and mechanisms in the co-fermentation of sludge and food waste.
- Regulation of metabolic pathways for directional product recovery.
- Microbial community assembly and functional analysis in fermentation systems.
- Techno-economic analysis and life cycle assessment of high-value conversion processes.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Welcome to an open access journal, *Fermentation*, which meets the growing need for a high quality peer-reviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this 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 journal. Proposals for editing a special issue for a particular topical area are always welcome.

Editor-in-Chief

Prof. Dr. Christian Kennes
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.5 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).