

Special Issue

Current Trends in Bioprocesses for Waste Valorization

Message from the Guest Editors

This Special Issue will focus on the current trends in diverse bioprocesses for waste treatment and processing through anaerobic digestion, fermentation, nutrient recycling, and photosynthesis. Special attention is given to the treatment and conversion of flue gas, urban waste, and wastewater into valuable products and/or biofuels under the biorefinery concept. We will provide an overview of the latest advances in bioprocesses for waste treatment and valorization. We invite authors to submit their contributions on the following subtopics:

- Anaerobic digestion;
- Biomaterials synthesis;
- CO₂ capture via biological processes;
- Lignocellulosic biomass treatment;
- Photosynthetic microorganisms;
- Membrane-based bioprocesses;
- Reactor design;
- Sludge treatment;
- Urban waste and gas fermentation;
- Wastewater treatment.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2025)



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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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