

Special Issue

Bioprocesses for Biomass Valorization in Biorefineries

Message from the Guest Editors

The transition of the global energy matrix is imperative to mitigate environmental impacts, and biomass is seen as the most foreseeable feedstock to replace fossil sources in the production of fuels and chemicals in a biorefinery context. Additionally, the insertion of value-added products together with primary products (biofuel and electricity) in a biorefinery portfolio mitigates the environmental impacts associated with 2G processes and is an interesting approach to achieve the feasibility of second generation (2G) biofuels. The high cost of biomass processing is still one of the main technological challenges faced by biorefineries. In this sense, this Special Issue aims to publish recent and innovative research results as well as review papers on biomass valorization and biorefinery development. Topics of interest include, but are not limited to, the following:

- Biomass pretreatment;
- Biomass hydrolysis;
- Biofuels production in biorefineries;
- Biomass valorization through high value-added chemicals;
- Consolidated bioprocessing and integrated processes;
- Capture and biological use of CO₂;
- Optimization and technical-economic evaluation;
- Life cycle analysis.

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Deadline for manuscript submissions

closed (25 August 2025)



Fermentation

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Impact Factor 3.3
CiteScore 5.7



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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.

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