Special Issue

Microbial Fermentation: From Waste to Biofuel

Message from the Guest Editor

The global population has grown, elevating greenhouse gas emissions to critical levels, and environmental awareness has led to considering more sustainable development, where moving from a linear economy to circular economy is becoming a demand. Microorganisms are natural tools to achieve this circularly. They consume our municipal and industrial solid waste as well as wastewater and agricultural residuals, while also producing biofuels, including alcohols (methanol, ethanol, butanol, etc.), gases (biogas and hydrogen), or the metabolites or cell biomass (such as algae), that can be converted into biofuels (e.g., biodiesel). This Special Issue aims to explore microorganisms and their functions for this purpose.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

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