Special Issue

The Role of Microbes in Biorefinery Products and Biofuels

Message from the Guest Editor

Microbial biorefineries are gaining increasing prominence owing to their ability to produce a broad spectrum of high-value-added products. From an economic and environmental standpoint, microbial-driven processes are advantageous as they can unlock value from biowastes using affordable and accessible microbial cell factories as biocatalysts. Against this background, this Special Issue invites scientists specializing in the cultivation, engineering, and/or application of microorganisms to share their knowledge, with a collective objective to (i) outline the state of the art on the role of microbes in biorefinery products and biofuels, (ii) shed light on the recent advances in various microbial biorefinery-based processes, and (iii) provide the technological gaps that need to be addressed in order to accelerate the advancement of this research field. Original articles and reviews papers discussing the role of microbes in biorefinery products and biofuels (and other related topics) are all welcomed in this Special Issue.

Guest Editor

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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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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