Special Issue

Environmental Sustainability Derived from Microorganisms: Bioresource Production and Recovery

Message from the Guest Editor

Environmental sustainability is an issue of ever-increasing importance. Procedures must be put in place that limit the production and/or release of harmful substances, while there is a simultaneous need to clean up and repair the damage already inflicted. Sustainable manufacturing processes that make use of renewable energy and conserve finite resources are also sorely needed. Microorganisms are an exciting prospect for the achievement of each of these ends. Their diverse metabolic activity makes microbes well suited to adapt to the remediation of a wide variety of industrial wastes, either prior to or after their release into the environment. They are also widely useful for resource recovery and production, from the recovery of useful materials from waste to the direct manufacturing of products and even energy production. Importantly, they are also carbon neutral. This Special Issue will highlight the importance of microorganisms in the achievement environmental sustainability. Original research, reviews and short communications addressing the use of microorganisms in waste management and/or resource production are invited for submission.

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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