

## Special Issue

# Microalgae Cultivation and Bioprocess Engineering for Environmental Remediation, Bioproduct Development and Resource Recovery

### Message from the Guest Editor

This Special Issue invites applied research that advances microalgae cultivation from laboratory proofs-of-concept to field-ready systems, and contributions may include foundational studies on newly isolated microalgal strains, growth and biochemical characterisation, physiological responses to variable effluents, strain selection, and the development of tailored cultivation protocols.

Submissions describing methodological advances, such as novel monitoring and analytical methods for the assessment of culture health, productivity, metabolite profiles and process control, are highly encouraged. Translational studies demonstrating treatment of conventional and emerging contaminants across municipal, agricultural, industrial and aquaculture waste streams are welcome. Papers on product development are also sought after and can include pathways to the recovery of bioactive, biofuels and biofertilizers from algal biomass, and processing or analytical approaches that improve value recovery.

This Special Issue aims to assemble a practical evidence base for the deployment of microalgal systems that deliver water-quality improvements, resource recovery and sustainable bioproduct supply chains.

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### Guest Editor

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### Deadline for manuscript submissions

30 September 2026



**Microorganisms**

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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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### Editor-in-Chief

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#### Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).