

Special Issue

Microbial Nitrogen Cycling in Estuarine and Coastal Ecosystems

Message from the Guest Editor

This Special Issue aims to investigate nitrogen cycling processes in estuarine and coastal ecosystems, as well as microbial-mediated nitrogen biogeochemical processes and their coupling mechanisms.

Furthermore, we also focus on the impacts of key pollutants on the nitrogen cycling process and its associated microorganisms. This Special Issue calls for original and novel manuscripts related to nitrogen elements in estuarine and coastal areas with any of the following sub-topics:

- Research on nitrogen pollution in estuarine and coastal ecosystems: sources, transformation, fluxes and effects;
- Nitrogen transformations in estuarine and coastal ecosystems, including spatiotemporal variations, release of greenhouse gases (N₂O), controlling factors and environmental implications;
- Key processes and coupling mechanisms of nitrogen cycling driven by microorganisms;
- The utilization of novel techniques in identifying microorganisms and their involvement in carbon and nitrogen cycling processes;
- Impact and mechanism of key pollutants on sedimentary microbial communities and nitrogen cycling.

We are looking forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2025)



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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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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).