Special Issue

State-of-the-Art Environmental Microbiology in China (2023–2024)

Message from the Guest Editor

Microbial communities are responsible for energy and nutrient cycling, and are massively involved in the planet's sustainability. Microbes are directly involved in the dynamics of climate change through their impact on the destabilization, mineralization and sequestration of organic matter. The facets of microbial diversity consist of morphological, structural, metabolic, ecological or evolutionary diversity; however, the central question in microbial ecology—"Who eats what, where and when?"—queries how the key player in the community is to perform the most meaningful activity. To answer this, one major task is to identify the relationships between the composition of the microbial community and the functional processes. Here, we introduce the Special Issue "State-of-the-Art Environmental Microbiology in China (2023-2024)". This Special Issue will be devoted to topics that remain focused on the study of microbial processes in the environment, microbial communities and microbial interactions, including omics technologies and cross-disciplinary studies dedicated to basic and/or applied research in China.

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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