

## Special Issue

# Advances in Water Quality and Microbial Ecology

### Message from the Guest Editors

Water is fundamental for ecosystem functioning, public health, and sustainable development. Environmental changes, increased anthropogenic activities, and ongoing climate change have direct implications for both water quality and the intricate structure and functioning of aquatic microbial communities.

Understanding these relationships is crucial for developing effective water management and protection strategies. This Special Issue will provide an interdisciplinary platform for knowledge exchange among researchers in the fields of environmental microbiology, sanitary engineering, ecotoxicology, and water environmental sciences. We encourage the submission of original research articles, reviews, and case studies showcasing the latest trends and innovative approaches in water quality assessment and protection. Keywords

- water pollution
- water quality monitoring
- sustainable water management
- one health approach
- water microbiology and public health
- microbial ecology
- microbial diversity
- toxicology of aquatic microorganisms
- antibiotic resistance
- aquatic ecosystem health
- water quality technologies

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### Guest Editors

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### Deadline for manuscript submissions

31 December 2026



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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