

Special Issue

Comprehensive Monitoring Approaches for the Assessment of Aquatic Ecosystem Health

Message from the Guest Editors

Since the Industrial Revolution, rapid anthropization has enhanced economic activity and convenience but also disrupted aquatic ecosystems through pollutant emissions and global environmental changes. Understanding how these pressures affect ecosystem structure, function and biodiversity requires comprehensive and integrated monitoring. This Special Issue highlights methods for evaluating abiotic (water, sediments) and biotic (organisms) components to assess ecosystem conditions and support sustainable management. Topics include:

- Monitoring aquatic systems to track spatial and temporal trends, pollutant distribution, sources and impacts;
- Integrated assessments combining instrumental monitoring and biomonitoring to evaluate ecological risks, ecotoxicity and human health implications;
- Development of sustainable practices for improving water quality and restoring ecosystem health.

We welcome studies on diverse aquatic environments—freshwater, brackish, coastal, marine and groundwater—affected by pollution or other stressors, including inorganic and organic contaminants such as nutrients, trace elements, persistent pollutants, pesticides, pharmaceuticals and microplastics.

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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