

Special Issue

Algal Diversity and Its Importance in Ecological Processes

Message from the Guest Editor

- Algae, among Earth's oldest and most diverse photosynthetic organisms, are fundamental to aquatic ecosystems and global biogeochemical cycles. Their diversity—spanning cyanobacteria, microalgae, and macroalgae—is critical for maintaining ecosystem stability and function.
- However, under the combined pressures of climate change and human activity, algal communities face unprecedented changes. Issues such as distribution shifts, harmful algal blooms, and biodiversity loss are profoundly impacting essential ecosystem services. A deeper understanding of algal diversity—its patterns, maintenance mechanisms, and ecological roles—is therefore crucial for developing predictive models and effective conservation strategies.
- This Special Issue invites original research and reviews on how algal diversity (from genetic to community levels) drives and responds to ecological processes. We seek contributions that advance the theoretical and applied foundations of algal ecology.
- Deadline for Submissions:
- Submit via:
https://www.mdpi.com/journal/water/special_issues/V5RY02QS6B

Guest Editor

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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