

Special Issue

Advances in Diatom Research in Freshwater

Message from the Guest Editors

This Special Issue focuses on advancing our understanding of freshwater diatoms, with particular attention paid to their taxonomy, rare species, ecological roles, and practical applications. This Special Issue invites contributions that address key aspects of freshwater diatom research, including, but not limited to, the following:

- **Taxonomy and systematics:** Novel approaches to the classification and identification of freshwater diatoms, including molecular and morphological techniques.
- **Rare diatoms:** Studies on the discovery, distribution, and ecological importance of uncommon diatom species.
- **Ecology and ecosystem function:** Investigations into the ecological roles of diatoms in freshwater habitats, their responses to environmental changes, and their contributions to ecosystem functionality.
- **Diatom applications:** Research on the practical uses of diatoms, including biomonitoring for water quality assessment, environmental reconstructions, paleolimnological studies, and novel technologies that leverage diatoms for sustainable management and environmental solutions.

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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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