

## Special Issue

# Changing Phytoplankton Communities in Aquatic Environments

### Message from the Guest Editor

Phytoplankton are key players in aquatic ecosystems as the dominant primary producers. Phytoplankton also have significant impacts on water quality and play vital roles in many ecosystem processes, such as biogeochemical processes, mediating cycling, sequestration, and exportation of inorganic and organic compounds. Overall, phytoplankton are a gauge of ecological condition and change, and they are used to understand and predict the functioning and production of aquatic ecosystems and their responses to natural and anthropogenic-induced changes. Phytoplankton communities are diverse in terms of composition and functional traits. Changes in phytoplankton communities affect the pathways and efficiency of energy transfer along the food web, thus impacting the functioning of aquatic ecosystems. Therefore, research on changes in phytoplankton communities across different aquatic ecosystems, driven by natural and anthropogenic stressors, is needed. For this Special Issue, we welcome research articles and reviews addressing the causes, effects, and consequences of changing phytoplankton communities in aquatic ecosystems.

---

### Guest Editor

Dr. Rita B. Domingues

Centre for Marine and Environmental Research, The University of Algarve, Faro, Portugal

---

### Deadline for manuscript submissions

closed (10 December 2023)



## Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/147131](https://mdpi.com/si/147131)

*Water*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

[mdpi.com/journal/  
water](https://mdpi.com/journal/water)





# Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/journal/  
water](https://mdpi.com/journal/water)



## About the Journal

### 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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)