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Changing Phytoplankton Communities in Aquatic Environments

Guest Editor:

Dr. Rita B. Domingues

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

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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.



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Special Issue

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Toulouse, Campus ENSAT,
Auzeville Tolosane, Toulouse,
France

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.

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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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