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Nutrient Uptake and Primary Production in Surface Water

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Deadline for manuscript submissions:
closed (30 July 2023)

Message from the Guest Editors

Dear Colleagues,

Increased eutrophication is a growing worldwide issue resulting from increased anthropogenic nutrient inputs in surface waters and a changing climate regime.

This Special Issue seeks to highlight novel, innovative studies that utilize monitoring, modeling, or ecological assessment techniques to examine these linkages and predict the implications of elevated nutrients for surface water quality and aquatic ecosystems. Contributions will preferably use a variety of techniques and will emphasize the innovative aspects and generalizable insights derived from the research. The following topics are of interest and could be included in the Special Issue:

- Processes of algal nutrient uptake
- Nutrient cycles in eutrophication processes
- Processes of nutrient uptake and primary production
- Effects of nutrients, light, and temperature on algal growth and primary production
- Numerical development and application on eutrophication processes
- Field measurements and monitoring of algal biomass and primary production in surface waters
- Numerical modeling and experimental investigation on harmful algae blooms (HABs)

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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.

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