

## Special Issue

# Harmful Cyanobacteria Blooms in Water Source Areas: Current Concept and Emerging Treatments

### Message from the Guest Editors

In recent years, the excessive proliferation of harmful cyanobacteria in eutrophic lakes and reservoirs has become a major issue all over the world, especially in the context of continued global warming. Cyanobacterial blooms cause a cascade of changes in the composition and function of prokaryotic and eukaryotic plankton, and thereby lead to a decline in the quality of the aquatic ecosystems and disturb the trophic transmission of the food web structure. More seriously, some harmful cyanobacteria can produce toxins and unpleasant odorant metabolites that interfere with the recreational function of lakes and the use of reservoirs for drinking water, and thus pose a potential risk to humans and animals. Hence, it is very important to identify the impact of cyanobacteria on aquatic ecology and decrease the level of cyanobacterial bloom in freshwater ecosystems. Therefore, this Special Issue aims to publish original research articles and review papers on the toxic cyanobacteria dwelling in drinking water sources, in order to better understand the effect of cyanobacteria in lakes or reservoirs and decrease the influence of cyanobacteria blooms on drinking water.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 February 2024)



## Water

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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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### Editor-in-Chief

Dr. Jean-Luc PROBST

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