Special Issue

Toxic Cyanobacteria in Drinking Water: Impacts, Detection and Treatment

Message from the Guest Editors

Freshwater ecosystems are the most vulnerable to the combined pressure of anthropogenic activities and climate change. Cyanobacterial blooms increase turbidity and smother submerged aquatic vegetation. Cyanobacterial blooms will cause a cascade of changes in the composition and function of prokaryotic and eukaryotic plankton and thereby lead to declining quality of the aquatic ecosystems and disturb the trophic transmission of the food-web structure. Moreover, some harmful cyanobacteria may produce toxins and unpleasant odorant metabolites that interfere with the recreational function of lakes and the use of reservoirs for drinking water and pose a potential risk to humans and animals. Hence, it is very important to decrease the level of cyanobacterial bloom in freshwater ecosystems and enhance the removal of cyanobacteria and the harmful metabolites in drinking water treatment plants. [...]

For further reading, please follow the link to the Special Issue Website:
https://www.mdpi.com/journal/water/special_issues/toxic_cyanobacteria_drinking_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.

Editor-in-Chief

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