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Toxic Cyanobacteria in Drinking Water: Impacts, Detection and Treatment

Guest Editors:

Dr. Hangzhou Xu

School of Environmental Science and Engineering, Shandong University, Qingdao 266237, China

Dr. Yan Jin

School of Municipal and Environmental Engineering, Shandong Jianzhu University, Jinan 250101, China

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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:

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Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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