Special Issue

Cyanobacterial Threat on Freshwater Safety

Message from the Guest Editor

Cyanobacteria are organisms that are distributed worldwide in aquatic ecosystems. Cyanobacteria are very common in inland aquatic ecosystems,. Among the 14 orders of filamentous and non-filamentous cyanobacteria (including benthic forms), there are 30 toxic compounds producer species. As of today, about seven biochemical groups of cyanobacterial toxins are known. The geographical distribution of cyanobacteria includes tropical, sub-tropical, and temperate global zones. The diversity, density, toxicity, and longevity are widely varied as a result of the physical, chemical, and grazing influences. Freshwater bodies become globally more Eutrophic because of water scarcity and human demand enhancements. Therefore, drinking-water resources' susceptibility to cyanobacteria blooms increase. The ultimate need to reduce cyanobacterial blooms by management has become crucial. The major function of this Issue is the renovation and upgrade of the ecological, toxicity, and chemical information of the eco-physiological traits and the public health implications of toxic cyanobacteria.

Guest Editor

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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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