Special Issue

Treatment and Risk Assessment of Algae in Water

Message from the Guest Editor

A wide range of algal and cyanobacterial species and their harmful metabolites are being increasingly detected in water bodies worldwide. Harmful algal bloom events are exacerbated by climate change and human activities, the harmful effects resulting from them include the following: (a) production of varying concentrations of cyanotoxins, for instance microcystins, saxitoxins, anatoxins, with recorded human health effects; (b) production of unpleasant taste and odor (T&O) compounds in water. They cause significant challenges to the production of safe drinking water. Hence, in this Special Issue, we are seeking publication of innovative research work focusing on the following: (1) development of methods to identify critical control points for the breakthrough and accumulation of cells in water supply systems using a combination of conventional and novel methods, such as real-time fluorescence measurement, cell integrity, and next-generation sequencing methods; (2) assessing the impact of conventional and new treatment processes to prevent breakthrough incidents and the benefits of these analyses for improved management purposes.

Guest Editor

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST
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