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Disinfection By-Products in Drinking and Surface Waters: Detection, Toxicity and Control

Guest Editor:

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Message from the Guest Editor

Disinfection by-products (DBPs) formed during a variety of applications of disinfectants and sanitizers continuously enter the water cycle and are being detected in aqueous samples before and after water treatment. Their ubiquitous occurrence has been well documented at global scale during the past several decades through the application of advanced analytical methods, revealing the identity of hundreds of compounds and enabling their trace-level determination. Studies have shown increased risk posed to the environment and human health from many DBP categories. Some DBPs have been regulated by EPA, WHO and the EU, while others, considered as emerging pollutants, are candidates for regulation in order to control their levels. Water treatment plants have in many cases undertaken modifications to their procedures towards this context. While new DBPs and related compounds are being identified, the concern related to their increasing occurrence in drinking and surface waters remains. The aim of this Special Issue is to collectively present the latest highlights, findings and directions of relevant studies, towards safeguarding water quality and human health from DBPs.

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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.

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