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Drinking Water Treatment and Removal of Natural Organic Matter

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Message from the Guest Editors

The removal of natural organic matter (NOM) has been a challenge for several decades, especially in countries of the Boreal climate. Because of their large molecule size and ability to form complexes with pollutants, NOM often governs the selection of water treatment methods. Although several methods, including enhanced coagulation, anion-exchange, nanofiltration, and biosorption are being used today, there is still no state-of-the-art technology that has been widely accepted by the water industry as efficient and cost-efficient. This is partly due to the diverse properties of NOM, which depend on its genesis and transformation, and partly due to its recalcitrant nature, which makes it biologically difficult to degrade. There has been significant advancement in the way natural NOM is being analysed and in the properties of its main components (humic substances), thus opening new opportunities for novel water treatment methods and understanding of disinfection by-products. […]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/drinking_water_organic_matte

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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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