Special Issue

Drinking Water: Water Quality and Treatment

Message from the Guest Editors

The application of advanced water treatment processes has had a major impact on water quality. Safe drinking water requires a holistic approach that considers the source of water, the treatment processes, and the distribution system. The most common treatment process consists of coagulation, flocculation, sedimentation, filtration, and disinfection. Water distribution systems may suffer from problems such as taste and odors, enhanced chlorine demand, and disinfection byproducts. Some pre-treatments and moderate oxidation enhancing coagulation can be used without damaging cell membranes. Similar to sand filtration, biological activated carbon can be used as a modern water technology that can also form a biofilm and allow biodegradation of natural organic matter. Nanofiltration and reverse osmosis use a pore size that excludes low-molecular-weight compounds and have demonstrated efficiency in removing dissolved organic matter and disinfection byproduct precursors. [...] For further reading, please follow the link to the special issue website at :
https://www.mdpi.com/journal/water/special_issues/drinkingwater_waterquality_treatment

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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

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