Special Issue

Microplastic Removal and Assessment in Wastewater Treatment Plants

Message from the Guest Editors

Wastewater treatment plants (WWTPs) have been identified as important point sources for microplastics (MPs) in the environment. Most modern WWTPs are equipped with three treatment stages and must adhere to the EU Urban Wastewater Treatment Directive. However, it has been found that although such WWTPs can remove between 64 and >99% of MPs from wastewater, depending on their design and operating conditions, due to the high volumes of treated wastewater, significant amounts of MPs are still discharged into the environment.

This Special Issue aims to focus on the following topics:

Data collection with various MP detection methods;
New analytical devices and innovative methods for quick, easy, and reliable MP detection;
Analysis of MP removal efficiencies at WWTPs with and without targeted MP removal technologies;
Comparison of removal technologies;
Long-term MP monitoring;
All aspects of sustainability and impact measurements, including sustainable process design and lifecycle analysis, as well as new circular solutions (with a focus on MPs and water reuse).

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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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