



water

an Open Access Journal by MDPI



Microplastic in Wastewater Treatment Plants

Guest Editor:

Dr. Shima Ziajahromi

Australian Rivers Institute, School
of Environment and Science,
Griffith University, Southport,
QLD 4222, Australia

Deadline for manuscript
submissions:

closed (15 January 2023)

Message from the Guest Editor

Microplastics have received significant attention because of their ubiquitous presence in various environmental compartments worldwide. The wastewater treatment plant has been identified as one of the major sources of microplastics in both aquatic and terrestrial environments. The presence of microplastics in wastewater and sewage sludge has raised concerns about potential risks not only to the receiving ecosystems and biota but to human health. Moreover, microplastics can be fragmented into smaller sizes during treatment processes and therefore can cause nanoplastics to enter the receiving environments. However, our knowledge about the occurrence, fate, and removal of these tiny plastics is still limited. Therefore, more research is needed to better understand the occurrence and fate of micro and nanoplastics in wastewater treatment plants and approaches for sustainable removal and management.

This special issue focuses on aspects related to presence, detection, fate, removal technologies and management of micro and nanoplastics in wastewater treatment plants. New techniques for analysis and detection of smaller microplastics and nanoplastics in water and wastewater are welcome.



mdpi.com/si/126284

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la
Biodiversité l'Environnement
(CRBE) UMR
CNRS/UPS/INPT/IRD, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, Toulouse,
France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)