



an Open Access Journal by MDPI

Biodegradation of Persistent Pollutants in Wastewater

Guest Editors:

Prof. Dr. Dafang Fu

Department of Municipal Engineering, School of Civil Engineering, Southeast University, Nanjing 210096, China

Dr. Ioannis Fotidis

Faculty of Engineering and Natural Sciences, Tampere University, 33100 Tampere, Finland

Dr. Junyu Zhang

Department of Coastal & Urban Risk & Resilience, IHE Delft, 2611 AX Delft, The Netherlands

Deadline for manuscript submissions: closed (15 December 2022)

Message from the Guest Editors

Wastewaters generated from different human activities contain persistent, difficult-to-degrade pollutants. These pollutants have a complex molecular structure and are potentially toxic to microbial growth and thus have varying degrees of biodegradability in conventional treatment processes. Persistent pollutants biodegrade partially during wastewater treatment, and their transformation products can be more toxic, more resistant, and more costexpensive to biodegrade further compared to parent compounds.

This Special Issue is open to papers advancing the field or showing innovative applications in wastewater treatment and reuse. We welcome papers that improve the efficiency of the biodegradation of persistent pollutants and their transformation products, microbial consortia thriving under inhibitory conditions, and the performance and loading rates of wastewater treatment plants under inevitable, persistent pollutant threats. We are also interested in papers that provide new insights into the biodegradation of persistent pollutants in other parts of the urban water cycle and adaptation technologies to the holistic urban wastewater system for enhancing pollutant removal capacity.









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 scientific domains and 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 (Water Science and Technology)

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