Special Issue

Soluble Microbial Products and Perfluorinated Compounds in Wastewater Treatment

Message from the Guest Editors

Per- and polyfluoroalkyl substances (PFASs) are synthetic fluorinated surfactants composed of a carbon backbone and a charged functional group. Their unique chemical structure provides hydrophobic, oil repellent, high temperature resistant, and significant reduction in water surface tension properties, making them widely used in pesticides, medicines, cosmetics, clothes, inks, oil production, food packaging, electrical wiring, and fire-fighting foams. However, some studies have shown that PFASs have potential hepatotoxicity, neurotoxicity, reproductive toxicity, immunotoxicity, thyroid disruption, cardiovascular toxicity, pulmonary toxicity, and renal toxicity to organisms. Therefore, it is necessary to develop effective methods to remove or degrade PFASs. On the global market, more than 3000 PFASs, among them perfluorooctanoic acid (PFOA), are frequently detected in various environmental matrices. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/MicrobialPerfluorinatedCompounds_ Wastewater

Guest Editors

Prof. Dr. Cong Li

Dr. Kejia Zhang

Dr. Ailan Yan

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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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

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

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