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Soluble Microbial Products and Perfluorinated Compounds in Wastewater Treatment

Guest Editors:

Dr. Cong Li
School of Environment and Architecture, University of Shanghai for Science and Technology, Shanghai 200433, China

Dr. Kejia Zhang
College of Civil Engineering and Architecture, Zhejiang University, Hangzhou 310058, China

Dr. Ailan Yan
College of Water Resources and Environmental Engineering, Zhejiang University of Water Resources and Electric Power, Hangzhou 310018, China

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Message from the Guest Editors

Dear Colleagues,

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

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Dr. Jean-Luc PROBST
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Message from the Editor-in-Chief

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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/water
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𝕏@Water_MDPI