Special Issue

Advances and Innovations in Technologies for Treatment and Toxicity Assessment of Conventional and Emerging Contaminant in Industrial Wastewater

Message from the Guest Editors

Industrial wastewater contains large amounts of toxic and harmful substances. If not effectively treated, it will pose a serious threat to the water environment and human health. Overall, industrial wastewater faces issues of the coexistence of conventional and emerging contaminants, high toxicity, salinity, difficult-to-degrade organic pollutants, and heavy metal pollution. These pose great challenges for pollution removal, wastewater reuse, and reducing greenhouse gas carbon emissions. Therefore, it is particularly important to research new biochemical and physicochemical treatments for industrial wastewater. At the same time, conducting environmental and human health risk assessments before and after industrial wastewater treatment is also crucial for the regeneration and utilization of wastewater. Especially in recent years, new technologies such as machine learning, intelligent regulation, molecular computing, and Life Cycle Assessment have been developed.

This Special Issue aims to investigate the advances and innovations in technologies for the treatment and toxicity assessment of conventional and emerging contaminants in industrial wastewater.

Guest Editors

Dr. Yongkui Yang

School of Environmental Science and Engineering, Tianjin University, Tianjin 300072, China

Dr. Yingxin Zhao

School of Environmental Science and Engineering, Tianjin University, Tianjin 300350, China

Deadline for manuscript submissions

20 January 2026

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/224932

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

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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

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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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