Special Issue

The Fate and Potential Impacts of Emerging Pollutants on the Freshwater Systems

Message from the Guest Editors

Currently, there is a rising concern about the presence of emerging pollutants among scientists, regulators, and the society in general, due to the their potential negative effects on aquatic systems. Once released in freshwaters, these emerging pollutants are likely to exhibit a series of complex environmental behaviours. During their transport, the growth and metabolism of individuals and communities can be affected, which may lead to changes in community structure, species distribution, and ecosystem functions. It is a vital scientific challenge to disentangle the transport and fate of emerging pollutants in freshwaters, as well as their possible effects on macro/micro organisms in the freshwater ecosystem. The aim of this Special Issue is to bring together recent research and reviews into the fate of emerging pollutants in freshwaters and identifying the factors affecting their distribution and transport, as well as the bioaccumulation, toxicity and the associated risk assessments. We also encourage the submission of examples of sustainable remediation practices, and research needs, which help to regulate and control emerging pollutants of freshwater ecosystems.

Guest Editors

Prof. Dr. Lingzhan Miao

Key Laboratory of Integrated Regulation and Resources Development on Shallow Lakes of Ministry of Education, College of Environment, Hohai University, Nanjing 210098, China

Dr. Jun Hou

College of Environment, Hohai University, Nanjing 210098, China

Deadline for manuscript submissions

closed (10 August 2022)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/72829

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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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.

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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