Special Issue

Microbial Transformation and Transport of Organic Pollutants within Paddy-Ditch-Pond Water

Message from the Guest Editors

Organic pollutants are widespread in the environment, posing significant threats to both human health and ecosystems. Paddy-ditch-pond water, which is utilized for irrigating rice fields, stands out as a major contributor to and receptor of organic pollutants. Microbial transformation plays a pivotal role in influencing the destiny and movement of these pollutants within paddy-ditch-pond water. Nevertheless, the mechanisms, kinetics, and factors influencing the microbial transformation of organic pollutants in paddy-ditch-pond water remain inadequately understood. This Special Issue aims to offer a comprehensive overview of the current knowledge and identify research gaps in the microbial transformation and transport of organic pollutants in paddy-ditch-pond water. It will extend to other topics, such as the identification and characterization of microbial communities and enzymes involved in the transformation of organic pollutants[...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/70K8N79313

Guest Editors

Dr. Jing Chen

College of Resources and Environmental Sciences, Nanjing Agricultural University, Nanjing 210095, China

Dr. Xiang Gao

College of Resources and Environmental Sciences, Nanjing Agricultural University, Nanjing 210095, China

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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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