



water



an Open Access Journal by MDPI

Biological Processes for Water and Wastewater Treatment

Guest Editors:

Dr. Woo Hyoung Lee

Department of Civil
Environmental and Construction
Engineering, University of Central
Florida, Orlando, FL, USA

Dr. Meng Wang

College of Earth and Mineral
Sciences, Pennsylvania State
University, University Park, PA,
USA

Dr. Xiangmeng Ma

School of Resources,
Environment and Materials,
Guangxi University, Nanning,
China

Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

As the human population increases and environmental requirements become more stringent, the need for sustainable water and wastewater management systems that meet regulatory standards and reduce energy consumption has become a top priority in the water industry. In addition, recycling and recovery of nutrients and renewable energy production from wastewater are major components of future smart cities. This includes novel technologies, including advanced materials for pollution control, the use of microalgae for advanced wastewater treatment and biomass production, sustainable approaches for water and wastewater management, and renewable (bio)energy productions.

In this Special Issue, we invite papers on the recent advance in biological processes for smart water and wastewater treatment and management, such as symbiotic microalgae–bacterial processes, photo-biohydrogen production from wastewater, bioelectrochemical systems (e.g., MFC and MEC), and harmful algal bloom (HABs) control as well as sensor application to health monitoring of biological processes for wastewater treatment.

Dr. Woo Hyoung Lee

Dr. Meng Wang

Dr. Xiangmeng Ma

Guest Editors



mdpi.com/si/140064

Special Issue



water



an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)