water

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 6.0

Microbial Risk Assessment of Bioaerosols in Wastewater Treatment Plants

Guest Editors:

Dr. Cheng Yan
Department of Environmental Science and Engineering, School of Environmental Studies, China University of Geosciences (Wuhan), Wuhan 430074, China

Dr. Yanjie Wang
School of Public Health, Zhengzhou University, Zhengzhou, China

Deadline for manuscript submissions:
closed (30 October 2023)

Message from the Guest Editors

Dear Colleagues,

Air aeration and mechanical agitation operations are the most important approaches to biological treatment in wastewater treatment plants (WWTPs). However, they produce numerous bioaerosols that harbor pathogens. These bioaerosols are mainly ingested through the pharynx or nares and can cause a range of adverse health effects, such as sewage worker's syndrome. Therefore, bioaerosol risk characteristics and measures to reduce their risk in WWTPs have attracted increasing attention.

Microbial risk assessment is a framework intended for the quantitative estimation of health risks in occupational exposure scenarios. It is carried out as follows: (i) hazard identification, (ii) exposure assessment, (iii) dose–response assessment, and (iv) risk characterization.

The Special Issue is now open for submissions. The findings presented in this Special Issue could contribute toward the establishment of mitigation measures and control strategies for the management of public health risks from the exposure to bioaerosols in local utilities.

water

IMPACT FACTOR 3.0

CITESCORE 6.0

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