

Special Issue

Wastewater-Based Epidemiology Assessment

Message from the Guest Editors

Wastewater-based epidemiology (WBE), is a complementary method to traditional monitoring approaches for monitoring chemical use and exposure in a population. The approach operates based on the fact that after consumption/exposure, biomarkers—drugs and their metabolites—excreted into toilets and flushed into urban sewer networks can be measured in raw wastewater samples. By sampling at the influent of wastewater treatment plants (WWTPs) and analyzing suitable biomarker concentrations, the consumption of the substances can be back-calculated. WBE techniques have recently begun to provide insights into diseases (COVID-19, gout, diabetes, and cancer) and lifestyles (food, nutrition).

This Special Issue welcomes research papers on various aspects of WBE, including applications of WBE in chemical use/exposure, reviews of WBE methodology, uncertainty analysis, etc. We encourage the submission of interdisciplinary work and collaborative research on the identification of new biomarkers for WBE and the triangulating WBE data with other data sources. We are especially interested in potential submissions that focus on COVID-19 and other diseases.

Guest Editors

Dr. Qiuda Zheng

Queensland Alliance for Environmental Health Sciences (QAEHS), The University of Queensland, 20 Cornwall Street, Woolloongabba, QLD 4102, Australia

Dr. Zacharias Frontistis

Department of Chemical Engineering, University of Western Macedonia, 50100 Kozani, Greece

Deadline for manuscript submissions

closed (20 January 2025)



Environments

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.7



mdpi.com/si/176859

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

[mdpi.com/journal/
environments](https://mdpi.com/journal/environments)





Environments

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.7



[mdpi.com/journal/
environments](https://mdpi.com/journal/environments)



About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati

1. Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy

2. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xijiekouwai Street, Beijing 100875, China

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).