

Special Issue

Data Science for Environmental Chemical Monitoring

Message from the Guest Editor

Environmental chemical monitoring is an ever-evolving field that plays a crucial role in understanding and mitigating the impacts of hazardous substances, and in order to address the intricate challenges posed by environmental chemical monitoring, innovative data science approaches are essential. Consequently, this Special Issue aims to gather the latest research advances and provide a forum for scientists, engineers, and practitioners to share their experiences and ideas. The scope of this Special Issue includes, but is not limited to:

- Computational mass spectrometry for the analysis of environmental data.
- Novel prioritization approaches in non-target screening and metagenomics.
- Statistical methods, machine learning, and data mining techniques for environmental chemical monitoring.
- Computational models for environmental exposure assessment.
- New ecotoxicological approaches and their applications in environmental chemical monitoring.
- Advances in understanding adverse outcome pathways and their impact in ecosystem services.
- Integrating big data sources into environmental chemical monitoring.
- Emerging trends and challenges in environmental data science.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2024)



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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2025).