

## Special Issue

# Monitoring and Modeling of Air Pollution

### Message from the Guest Editors

Air pollution, driven by complex interactions between anthropogenic emissions, natural sources, and meteorological dynamics, poses significant threats to human health and the environment. Effective monitoring and accurate modelling are crucial for understanding its sources, distribution, and impacts. This Special Issue, “Monitoring and Modeling of Air Pollution”, aims to collect cutting-edge research in these fields. We seek contributions on advanced monitoring technologies, including sensor networks and satellite remote sensing, as well as innovative modelling approaches like machine learning and high-resolution simulations. Manuscripts submitted to this Special Issue may include, but are not limited to, the following topics:

- Physical and chemical characteristics of air pollutants and their interplay with meteorological conditions
- Machine learning and high-resolution simulations of air pollutants
- Emission characteristics and health risk assessment of indoor-outdoor air pollutants
- Multi-source apportionment of atmospheric pollutants
- Aerosols-Atmospheric boundary layer interaction

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### Guest Editors

Dr. Cheng Liu

Dr. Yongjing Ma

Dr. Yangzhou Wu

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### Deadline for manuscript submissions

9 January 2026



## Toxics

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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.

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### Editor-in-Chief

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#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).