

Special Issue

Unraveling the Health Impacts of Air Pollution: Assessments and Mechanisms

Message from the Guest Editors

Studies by the World Health Organization (WHO) have shown that almost all of the world's population breathes air that exceeds WHO air quality limits, posing a significant threat to human health. To understand mechanisms of the health effects caused by air pollution, accurate exposure assessments around ambient environments and inside human bodies from in vitro to in vivo studies need to be discovered. In addition, the linkage between ambient air pollutant exposure, air pollutant biomarkers in human bodies, and mechanisms of their action related to health effects needs to be further elucidated. In the Special Issue, we aim to present a collection of original articles or reviews on the following topics:

- Exposure assessment: investigating ambient air pollutants at fine spatial and temporal scales.
- Identification of key components: identifying the critical components of air pollutants that affect human health.
- Mechanisms of action: exploring the biological and molecular mechanisms through which air pollutants influence health.
- Innovative toxicity assessment methods: developing new methodologies for determining the toxicity and health impacts of air pollutants.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2025)



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.

Editor-in-Chief

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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).