

Special Issue

Airway Exposure to Pollution from Ambient Particulate Matter (PM) and Health Effects

Message from the Guest Editors

This Special Issue explores the impact of ambient particulate matter (PM) on airway health, with a particular focus on respiratory diseases and underlying mechanisms. It aims to examine the effects of PM effects, particularly inflammation, oxidative stress, and lung function decline, while highlighting innovative methodologies like in vitro models and alternative testing methods. The key objectives of this Special Issue include investigating size- and composition-specific PM impacts (e.g., PM_{2.5}, PM₁₀, and ultrafine particles), advancing mechanistic understanding, and integrating novel exposure and health risk assessment techniques. Contributions will span toxicology, environmental science, public health, and regulatory frameworks. Positioned within a well-established body of literature on PM and respiratory health, this collection of works addresses critical gaps, such as insufficient focus on cellular mechanisms, limited adoption of animal-free methodologies, and the need for comprehensive exposure modeling linked to specific PM sources. By showcasing interdisciplinary approaches, it aims to advance the field's capacity for actionable insights.

Guest Editors

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Deadline for manuscript submissions

26 June 2026



Toxics

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Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



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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 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).