

Special Issue

Air Pollutants: Sources, Characteristics, Environmental Impacts and Human Health Risks

Message from the Guest Editors

Air pollution remains a major global environmental challenge. With ongoing urbanization and industrial activity, the complexity of air pollutants, including particulate matter (PM_{2.5}), trace gases, carbonaceous aerosols, and emerging contaminants, poses increasing risks to respiratory health and vegetation. The coordinated control of PM_{2.5} and O₃ has become a priority in air quality management due to their shared precursors, such as nitrogen oxides and volatile organic compounds. Understanding the chemical characteristics and toxicological effects of these pollutants is essential for developing effective mitigation strategies.

This Special Issue welcomes research covering air pollutants. Topics of interest include, but are not limited to:

- Source apportionment and chemical characterization of air pollutants;
- Impacts of specific emission sources (e.g., biomass burning, traffic) on air quality and health;
- Data-driven methods for pollution characterization and health risk assessment;
- Formation mechanisms, sources, and coordinated control strategies for PM_{2.5} and O₃;
- Toxicological studies on the health effects of air pollution.

Guest Editors

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Deadline for manuscript submissions

31 January 2027



Toxics

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by MDPI

Impact Factor 4.9
CiteScore 7.8
Indexed in PubMed



mdpi.com/si/280541

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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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