Special Issue

Cutting-Edge Developments in Air Quality and Health

Message from the Guest Editor

Atmosphere dedicates this Special Issue to advancing our understanding of the association between the health effects of particulate matter (PM) and its composition and sources. PM air pollution stands as one of the major risk factors for human health worldwide. Recent studies have identified the generation of oxidative stress as one of the major mechanisms by which PM exerts its adverse biological effects. The ability of PM to induce oxidative stress is often estimated through cellular or acellular oxidative potential (OP) measurements. While various methods have been proposed in the literature, their capacity to accurately represent the toxicological pathways of PM interaction with living organisms has not yet been fully demonstrated. *Atmosphere* invites submissions of multidisciplinary studies that employ both traditional and innovative approaches to evaluate the chemical–physical composition of PM and its relationships with health effects. Moreover, this Special Issue welcomes innovative studies for evaluating human and environmental biomonitoring exposure to PM air pollutants, facilitating the planning of necessary mitigation measures to safeguard public health.

Guest Editor

Dr. Lorenzo Massimi

Department of Environmental Biology, Sapienza University of Rome, P. le Aldo Moro, 5, 00185 Rome, Italy

Deadline for manuscript submissions

28 February 2026

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/202906

Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

mdpi.com/journal/atmosphere

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/journal/atmosphere

About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))

MDPI