

Special Issue

Climate Changes, Air Quality and Human Health in South America

Message from the Guest Editors

In recent years, several studies have been carried out addressing problems related to air pollution and human health. Advancements in computational techniques, data acquisition systems, and biometeorology have enabled a better understanding of the relationship between climate change, air pollution, and human health. However, due to the complexity of atmospheric dynamics and the rapid progression of climate change, it is increasingly necessary to conduct studies that help understand how and how much such processes can affect human health. We welcome papers on topics including, but not limited to, the following:

- The influence of air pollution on human health;
- The relationship between air quality and respiratory diseases;
- Models that perform air quality index predictions;
- The correlation between surface data, remote sensing data, and air quality;
- Signal processing for pollutant detection.
- Air risk assessment and public health
- Air Pollution detection and monitoring
- Emerging air pollutants
- Air pollution, climate and infectious diseases
- Climate change, water changes and human health
- Climate action SDG13
- Disaster and climate change

Guest Editors

Dr. Gregori de Arruda Moreira

Prof. Dr. Anil Namdeo

Dr. Mario Coccia

Dr. Jonatan João da Silva

Dr. Alexandre Cacheffo



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



mdpi.com/si/218079

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

[mdpi.com/journal/
atmosphere](https://mdpi.com/journal/atmosphere)



Deadline for manuscript submissions

15 October 2026



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))