Special Issue

Mercury in the Atmosphere: Measurements, Intercompartment Exchange, and Modeling

Message from the Guest Editors

This Special Issue of Atmosphere aims to provide in-depth research of atmospheric mercury, a pollutant of critical concern. Atmospheric mercury, primarily originating from both natural sources and anthropogenic activities, poses significant risks due to its persistence and ability to bioaccumulate in ecosystems. Understanding the distribution, transformation, and deposition of mercury in the atmosphere is crucial for assessing its global impact and for the development of effective regulatory measures. This Special Issue accepts manuscripts related to a wide range of advanced measurement techniques that have been developed to monitor atmospheric mercury. Manuscripts addressing instrumental calibrations, measurement intercomparisons and intercalibrations, and other analytical advancements are also welcome. Key topics also include the exploration of intercompartmental exchanges of mercury, particularly its complex interactions between the atmosphere, hydrosphere, and lithosphere. Moreover, the issue accepts manuscripts highlighting state-of-the-art modeling approaches that simulate the transport, transformation, and deposition of mercury on regional and global scales.

Guest Editors

Dr. Igor Živković
Dr. Jan Gačnik
Prof. Dr. Milena Horvat

Deadline for manuscript submissions

closed (30 June 2025)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/217143

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

MDPI

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))