# Special Issue

## Filtration and Removal of Air Particles

### Message from the Guest Editor

Particulate matter has a significant impact on human health. With advancing technology, new threats from airborne particles continue to emerge. To ensure a cleaner and greener indoor environment, novel strategies are needed to mitigate the impact of airborne particles while minimizing energy consumption. These strategies may include the use of electrical fields, acoustic techniques, or innovative materials such as nanofiber media. Achieving advancements in air filtration requires multidisciplinary collaboration. This Special Issue will encourage and showcase the latest developments in novel air filtration methods for particle removal. Both theoretical and practical contributions are welcome, including laboratory experiments, computer simulations, theoretical analyses, and on-site tests related to air purification.

### Guest Editor

Dr. Xin Zhang
Energy Research Institute, Nanyang Technological University, Singapore 639141, Singapore

### Deadline for manuscript submissions

closed (31 October 2025)

**Atmosphere**

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/235898

*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))