

## Special Issue

# Airborne Micro and Nanoplastics: Detection, Dynamics, and Exposure Assessment

### Message from the Guest Editor

This Special Issue, entitled “Airborne Micro and Nanoplastics: Detection, Dynamics, and Exposure Assessment”, aims to provide a multidisciplinary platform for advancing our understanding of microplastics and nanoplastics in the atmosphere. This Special Issue will focus on elucidating the sources, detection, spatial distribution, atmospheric transport, and chemical transformation of these particles, as well as evaluate their potential health and ecological impacts. By integrating cutting-edge sampling techniques, state-of-the-art analytical instrumentation, and innovative atmospheric modeling, this Special Issue aims to address knowledge gaps, foster the development of novel risk assessment and mitigation strategies, and ultimately provide robust scientific evidence to inform air quality management and public health policies.

---

### Guest Editor

Dr. Yangyang Liu

Department of Civil & Environmental Engineering, Virginia Tech,  
Blacksburg, VA 24060, USA

---

### Deadline for manuscript submissions

closed (30 September 2025)



## Atmosphere

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.9



[mdpi.com/si/232918](https://mdpi.com/si/232918)

*Atmosphere*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)

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





# Atmosphere

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.9



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