

Special Issue

Development of LIDAR Techniques for Atmospheric Remote Sensing (2nd Edition)

Message from the Guest Editor

This Special Issue is the second volume in a series of publications dedicated to “Development of LIDAR Techniques for Atmospheric Remote Sensing” (https://www.mdpi.com/journal/atmosphere/special_issues/LIDAR_Atmos). LIDAR is an important active remote sensing tool to monitor atmospheric components such as aerosols, temperature, pollutant gases and greenhouse gases (e.g., CALIPSO, ACDL, and Aeolus) during the day and night. The Special Issue aims to present the latest research in the system development and applications of LIDAR in the atmosphere. We invite you to submit articles on your recent research on LIDAR system development with respect to the following topics:

- Innovative methods for monitoring atmospheric composition;
- Hardware development for LIDAR systems;
- Models for quantifying gas fluxes;
- The collaborative observation of greenhouse and pollution gases;
- Measurements for stratospheric meteorology.

Guest Editor

Dr. Xin Ma

School of Remote Sensing and Information Engineering, Wuhan University, Wuhan 4730079, China

Deadline for manuscript submissions

closed (15 August 2025)



Atmosphere

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.9



[mdpi.com/si/190614](https://www.mdpi.com/si/190614)

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

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