# **Special Issue**

# Remote Sensing of Aerosols and Clouds: Current Status and Emerging Challenges

# Message from the Guest Editors

Remote sensing data plays a crucial role in enhancing our understanding of atmospheric processes and in studying the life cycles of clouds and their interactions with aerosols and radiation. This improved understanding is vital for assessing atmospheric models. Additionally, satellite remote sensing enables the measurement of total aerosol concentration and offers valuable insights into aerosol properties such as size, light absorption characteristics, and type. It also allows for the detection, profiling, and characterization of clouds. This Special Issue invites discussions on the current state and emerging challenges in aerosol and cloud remote sensing.

#### **Guest Editors**

Dr. Lerato Shikwambana

Dr. Nkanyiso Mbatha

Dr. Filomena Romano

## Deadline for manuscript submissions

31 March 2026



an Open Access Journal by MDPI

Impact Factor 2.3 CiteScore 4.9



mdpi.com/si/252739

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

mdpi.com/journal/atmosphere





an Open Access Journal by MDPI

Impact Factor 2.3 CiteScore 4.9



# **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))

