

## Special Issue

# Advancements in Satellite and Ground-Based Retrievals for Aerosol and Cloud Characterization

### Message from the Guest Editors

This Special Issue aims to showcase the latest advancements in the retrieval of aerosol and cloud properties from both satellite and ground-based measurements. We encourage submissions covering a wide range of topics, including, but not limited to the following:

- Novel satellite retrieval algorithms for aerosol and cloud properties, including those which address uncertainties and limitations.
- Advancements in ground-based remote sensing techniques (lidar, radar, sun photometers, etc.) for detailed aerosol and cloud characterization.
- Validation and intercomparison of satellite and ground-based aerosol and cloud products.
- Synergistic studies that combine satellite and ground-based measurements for enhanced aerosol and cloud property retrievals.
- Investigations into aerosol–cloud interactions using both satellite and ground-based observations.
- Retrieval of aerosol and cloud properties in challenging environments or under specific atmospheric conditions.
- Development and applications of new instrumentation and observational networks for aerosol and cloud monitoring.
- .....

### Guest Editors

Dr. Deaconu Lucia

Institute of Advanced Studies in Science and Technology, Universitatea Babes-Bolyai, Cluj-Napoca, Romania

Dr. Haipeng Zhang

Department of Atmospheric & Oceanic Science, University of Maryland, College Park, MD, USA

### Deadline for manuscript submissions

30 November 2025



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/237235](https://mdpi.com/si/237235)

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

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





# Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



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



## About the Journal

### Message from the Editor-in-Chief

*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

---

### Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

---

### 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, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

#### Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)