

Special Issue

Advances in Infrared Observation of Earth's Atmosphere II

Message from the Guest Editors

Remote sensing is an essential tool for the study of the climate system as it can measure the electromagnetic radiation emitted or reflected by the atmosphere and by surfaces. Remote sensing, especially in the infrared, has boomed over the past few years. This is the result of constant technical and technological developments, including space missions, which require the quality and reliability of satellite platforms and the measuring instruments they carry. With the increase in observations, there is an improvement in the quantification of climatic variables (greenhouse gases, clouds, and aerosols), weather variables (water vapor, temperature, wind, and cloud cover), and the monitoring of air quality (particulate and gaseous pollution) or atmospheric chemistry (trace gases). The Special Issue will present the latest advances in the advanced infrared observation of Earth's atmosphere, including innovative applications in meteorology, climatology and atmospheric physics, and a validation of retrievals based on independent measurements. This Special Issue is the second edition of Special Issue: “**Advances in Infrared Observation of Earth's Atmosphere**”.

Guest Editors

Dr. Filomena Romano

Institute of Methodologies for Environmental Analysis, National Research Council (IMAA/CNR), 85050 Tito Scalo, Potenza, Italy

Dr. Elisabetta Ricciardelli

Institute of Methodologies for Environmental Analysis, National Research Council (IMAA/CNR), 85100 Tito Scalo, PZ, Italy

Deadline for manuscript submissions

closed (15 November 2023)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/131624

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)