Special Issue

Atmospheric Measurements Based on Spectral Remote Sensing

Message from the Guest Editor

Spectral remote sensing is one of the most important technologies for atmospheric measurements. It has developed multi-platforms such as ground-based, airborne, and spaceborne sensors. This Special Issue focuses on atmospheric measurements obtained by using spectral remote sensing, which may mainly includes spectral remote sensing detection theory and technology, spectral remote sensing instruments (such as system design, simulation analysis, calibration, etc.), spectral inversion methods, atmospheric composition (such as greenhouse gases, pollutants, aerosols, etc.), atmospheric models, and atmospheric quality controls (such as atmospheric quality inventories, prevention and control measures, etc.). Articles may address, but are not limited, to the following topics:

- Multi-spectral remote sensing;
- Research and development of new sensors;
- Spectral feature extraction and recognition;
- Spectral detection techniques;
- Spectral detection instruments;
- Spectral detection modeling;
- Spectral analysis method;
- Inversion algorithms;
- Atmospheric meteorology;
- Atmospheric quality;
- Atmospheric pollution control;
- Atmospheric models;
- Atmospheric correction.

Guest Editor

Prof. Fuqi Si

Key Laboratory of Environmental Optics and Technology, Anhui Institute of Optics and Fine Mechanics, Hefei Institutes of Physical Science, Chinese Academy of Sciences, Hefei 230031, China

Deadline for manuscript submissions

28 November 2025

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/242141

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

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

MDPI

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)