

Special Issue

Advances in Exploring the Moon, Mars, and Asteroids Based on In-Situ and Remote Sensing Measurements

Message from the Guest Editors

This Special Issue intends to capture recent achievements and future trends in robotic exploration enabled by remote sensing and other in situ measurements techniques. Data collected by planetary orbiters, landers, and rovers have already contributed to our understanding of other celestial bodies. These necessary instruments are expected to improve in terms of performance while reducing their size, mass, and resource needs in order to comply with the actual trends, like smallsats for exploration. The solicited papers for the proposed Special Issue will cover scientific traditional topics and novel areas like innovative strategies for interplanetary transfer and observation, the characterization of planetary environments, the identification of space resources/reserves, potential habitability assessment, and new payloads for small satellites.

Guest Editors

Dr. Simone Pirrotta

Dr. Francesca Esposito

Dr. Alice Lucchetti

Dr. Maurizio Pajola

Deadline for manuscript submissions

15 December 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/199223

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)