

Special Issue

Remote Sensing of Photosynthesis with Sun- Induced Chlorophyll Fluorescence and Photochemical Reflectance Index

Message from the Guest Editors

We invite research that advances our understanding of the SIF and PRI signals at various scales, and their link with photosynthesis to improve understanding of photosynthesis as well as carbon and water cycles. Articles covering but not limited to the following topics are invited for this Special Issue:

- Technological developments in the field of remote sensing of SIF and PRI, such as retrieval algorithms and measurement systems for various platforms.
- Radiative transfer modeling of the reflectance and SIF signals of leaf and canopy.
- Theoretical and experimental developments on mechanistic upscaling of the relationship between non-photochemical quenching, LUE, and fluorescence.
- Research applying SIF and/or PRI for a better understanding of photosynthesis and vegetation status.

Guest Editors

Prof. Dr. Peiqi Yang

School of Geography, Nanjing Normal University, Nanjing 210023, China

Dr. Xinjie Liu

Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing 100094, China

Deadline for manuscript submissions

closed (1 July 2023)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/100243

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)