



Remote Sensing of the Earth's Radiation Budget

Guest Editors:

Dr. Tianxing Wang

Dr. Husi Letu

Dr. Dongdong Wang

Prof. Dr. Jie Cheng

Prof. Dr. Tao He

Dr. Xiaotong Zhang

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

Remote sensing provides an effective and promising way for objectively detecting the Earth's radiation budget and changes at both surface and the TOA levels. Although tremendous efforts have been made to derive shortwave and longwave radiation components from space, accurate estimation of the earth's radiation budget and the associated variations are still very challenging. This Special Issue aims to publish original research articles concerning the observation of both shortwave and longwave radiation components using the state-of-the-art remote sensing techniques as well as the related analysis.

This Special Issue mainly focuses on contributions that address topics including but not limited to:

- Radiation related radiative transfer modelling;
- Estimation of shortwave components;
- Estimation of Longwave components;
- Derivation of Surface and TOA albedo;
- Land surface temperature and emissivities retrieval;
- Estimation of outgoing longwave radiation at TOA;
- Cloud and aerosol effect on the radiation;
- Radiation modelling over the rugged terrain;
- Radiation validation and inter-comparisons;
- Long-term radiation products from space;
- Applications of radiation products.





an Open Access Journal by MDPI

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

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.

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)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)