



## Precipitation and Evapotranspiration Mechanisms in Drylands and Their Remote Sensing Retrieval & Simulation

Guest Editors:

**Prof. Qiang Zhang**

**Prof. Dr. Yu Zhang**

**Prof. Dr. Ping Yue**

**Dr. Jun Wen**

**Dr. Zesu Yang**

**Dr. Yongli He**

Deadline for manuscript  
submissions:

**closed (31 July 2023)**

### Message from the Guest Editors

This Special Issue invites contributions dealing with the retrieval of precipitation and evapotranspiration data on different spatial and temporal scales, monitoring their dynamics, exploring the mechanisms of precipitation and evapotranspiration, and improving simulation accuracy based on the integrated use of remotely sensed data and in situ measurements. Articles may address but are not limited to the following topics:

- Retrieval of precipitation;
- Estimation of evapotranspiration;
- Evapotranspiration regulation mechanisms;
- Validation of precipitation and evapotranspiration models;
- Characterization of precipitation properties;
- The impact of climate change on precipitation and evapotranspiration;
- Spatial and temporal characteristics of evapotranspiration;
- Precipitation mechanism;
- Numerical simulation of precipitation and evapotranspiration;
- Land–atmosphere interaction;
- Drought and flood assessment and monitoring.





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](http://www.mdpi.com)

[mdpi.com/journal/remotesensing](http://mdpi.com/journal/remotesensing)  
[remotesensing@mdpi.com](mailto:remotesensing@mdpi.com)  
[X@RemoteSens\\_MDPI](https://twitter.com/RemoteSens_MDPI)