Special Issue

Enhancing Vegetation and Water Use Management Through Earth Observation

Message from the Guest Editors

Remote sensing plays a vital role in monitoring vegetation dynamics and managing water resources by providing comprehensive spatial and temporal information. These technologies enable rapid and precise assessments, facilitating informed decision-making for sustainable land and water management practices. This special issue aims to explore the latest satellite technologies for monitoring regional vegetation and water resources. Topics of interest span spatial and temporal variations in regional water resources (e.g., precipitation, groundwater, runoff, lake water, soil water content, etc.) and vegetation attributes (e.g., coverage rate, leaf area index, and biomass), alongside investigations into the coupling mechanism of regional water resources and vegetation. Thus, we invite contributions exploring multi-source remote sensing data integration, multi-scale methodologies, and studies focused on vegetation and water use management, among other issues. The special issue is focused on the following: vegetation health, water availability, vegetation stress, drought sustainable water management, agricultural water, multi-source data integration, leaf area index, biomass.

Guest Editors

Prof. Dr. Fei Zhang

Dr. Xiaoping Wang

Dr. Brian Alan Johnson

Dr. Xu Ma

Deadline for manuscript submissions

31 May 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/202802

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

About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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)

MDPI