

## Special Issue

# Applications of Remote Sensing Techniques and Geographic Information Systems (GIS) to Sustainable Hydrological Modelling and Watershed Management

### Message from the Guest Editors

This Special Issue aims to highlight recent advances and innovative applications of Remote Sensing and Geographic Information Systems (GIS) in sustainable hydrological modeling and watershed management at local, regional, and global scales. Innovative, data-driven methodologies addressing the sustainable management of freshwater and watershed resources are expected to contribute to improved resource efficiency, enhanced ecosystem integrity, and long-term watershed resilience under changing environmental conditions. We invite experts, scholars, researchers, and practitioners to submit their original research articles, case studies, and review papers. Topics of interest include, but are not limited to, the following:

- RS and GIS-based water resources assessment and analysis.
- Hydrological modeling using geospatial and Earth observation data.
- Land cover change impacts on watershed hydrology.
- Flood and drought monitoring and risk assessment.
- Climate change and its impacts on watersheds and water resources.
- Integration of RS, GIS, and decision-support tools for sustainable watershed management.
- Nature-based solutions for watershed management.
- Hydroinformatics.

---

### Guest Editors

Dr. Paschalis Koutalakis

Department of Marine Sciences, University of the Aegean, Mytilene, Greece

Prof. Dr. George Zaimis

Department of Natural Environment & Climate Resilience, Democritus University of Thrace, Drama, Greece

---

**Deadline for manuscript submissions**



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/271819](https://mdpi.com/si/271819)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/journal/  
sustainability](https://mdpi.com/journal/sustainability)



# About the Journal

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, 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 and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)