

## Special Issue

# Integrated Modeling Approaches for Sustainable Agriculture: Bridging Soil, Water and Hydrology Dynamics

### Message from the Guest Editors

This Special Issue aims to explore the synergy between soil, water, and hydrology dynamics in agricultural systems, leveraging advanced modeling techniques to address the multifaceted challenges associated with sustainable land use and water resource management. By bringing together diverse perspectives and methodologies, this issue seeks to advance our understanding of the complex interactions shaping agricultural landscapes. This Special Issue will welcome manuscripts that link the following themes:

- Innovative Modeling Frameworks
- Climate Resilience in Agriculture:
- Precision Agriculture and Modeling Precision
- Quantifying the Impact of Land Use Changes
- Water-Efficient Agricultural Practices

---

### Guest Editors

Dr. Zisheng Xing

Agriculture et Agroalimentaire Canada, 370 River Road, Portage la Prairie, MB R1N 3V6, Canada

Dr. Santosh Subhash Palmate

Texas A&M AgriLife Research, Texas A&M University System, 1380 A&M Circle, El Paso, TX 79927, USA

---

### Deadline for manuscript submissions

closed (14 June 2024)



Land

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 5.9



[mdpi.com/si/192020](https://mdpi.com/si/192020)

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

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

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





# Land

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 5.9



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



## About the Journal

### Message from the Editor-in-Chief

*Land* is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant impact factor, and has a goal to become the best journal in land in the coming years. I strongly recommend *Land* for your best research publications for a fast dissemination of your research.

---

### Editor-in-Chief

Prof. Dr. Christine Fürst

Department Sustainable Landscape Development, Institute for Geosciences and Geography, University of Halle, Halle, Germany

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SSCI (Web of Science), PubAg, AGRIS, GeoRef, RePEc, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Nature and Landscape Conservation)