Special Issue

New Approach to High-Quality Agricultural Development of Saline–Alkali Land—2nd Edition

Message from the Guest Editors

The sustainable development of agriculture in saline–alkali regions faces critical challenges, including water resource scarcity, soil degradation, and ecosystem fragility. Addressing these issues requires innovative approaches that enhance land productivity while ensuring ecological security. This Special Issue aims to advance research on the integrated utilization and ecological restoration of saline–alkali lands, with a focus on the following areas:

- Novel Strategies for Saline Soil Improvement: water-saving irrigation techniques, soil amendment technologies (e.g., biochar, gypsum), and plant–microbe interactions for rhizosphere remediation.
- Dynamic Monitoring and Modeling: soil water–salt transport processes and remote sensing and AI-driven land management.
- Ecosystem Construction: salt-tolerant crop/forage cultivation systems and integrated grass–livestock models for circular agriculture.

We welcome original research, reviews, and case studies that bridge scientific innovation and practical applications. Submissions should focus on scalable solutions to global saline–alkali land challenges, particularly in climate-vulnerable regions.

Guest Editors

Dr. Zhen Liu

CAS Engineering Laboratory for Yellow River Delta Modern Agriculture, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

Dr. Huarui Gong

CAS Engineering Laboratory for Yellow River Delta Modern Agriculture, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

Deadline for manuscript submissions

15 January 2026

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/237974

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

mdpi.com/journal/agronomy

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/journal/agronomy

MDPI

About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)