

Special Issue

Agronomic Management of Crops in Arid and Semi-arid Environments

Message from the Guest Editors

Global arid and semi-arid regions account for about 36% of the total land area. Although these regions are rich in soil, light, and heat resources, agricultural production is limited by drought, soil erosion, etc. Traditional agronomic management practices lead to soil degradation, nutrient loss, and water pollution, severely affecting agroecosystems in arid and semi-arid regions. The imbalance between agricultural production and the environment has seriously hindered the sustainable development of agriculture. In recent years, in order to promote crop production and improve the farmland environment, a variety of agronomic management methods such as plastic film mulching, fertilizer management optimization, straw returning, intercropping, water-saving irrigation, and conservation tillage have been proposed. We therefore welcome high-quality interdisciplinary research on crop agronomic management to uncover the mechanisms by which these management practices affect crop production and the environment, explore synergies of production and ecological functions in arid and semi-arid regions, and address production in arid and semi-arid regions conflict with the environment.

Guest Editors

Dr. Peng Zhang

1. College of Agronomy, Northwest A&F University, Yangling 712100, China
2. Institute of Water Saving Agriculture in Arid Areas of China, Northwest A&F University, Yangling 712100, China

Dr. Wenyi Dong

Institute of Environment and Sustainable Development in Agriculture, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Deadline for manuscript submissions

closed (10 July 2023)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/138141

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

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





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



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



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, 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, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)