

Special Issue

Impacts of Fertilization and Irrigation on Soil Nitrogen Cycling and Crop Nitrogen Utilization

Message from the Guest Editors

Water and nitrogen are two essential substances that play an indispensable role in promoting normal crop growth. In recent years, scientists across the globe have conducted extensive research on the mechanism and application technology of crop water and fertilizer regulation. However, due to the numerous impacts of environmental changes, global water shortage have only further intensified, and the ecological and environmental problems caused by unreasonable fertilization have become increasingly severe. These issues pose a serious threat to food security and sustainable development of agriculture. Thus, it is of dire necessity to address the challenges associated with agricultural water and soil resource bottlenecks, and further improve crop water and nitrogen utilization efficiency to ensure food security. Given this context, this Special Issue aims to collate research addressing the impacts of fertilization and irrigation on soil nitrogen cycling and crop nitrogen utilization, as well as highlighting the novel developments in the fields of irrigation and fertilization.

Guest Editors

Prof. Dr. Xuebin Qi

Dr. Ping Li

Dr. Wei Guo

Deadline for manuscript submissions

closed (30 December 2024)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 7.8



mdpi.com/si/185145

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 7.8



[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, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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), GEOBASE, PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

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