

Special Issue

Nitrogen Fertilization in Agriculture: Worldwide Trends and Current Knowledge

Message from the Guest Editors

Nitrogen fertilization is an indispensable agricultural practice to increase crop growth and prevent food shortages for a growing population. However, the often, excessive use of nitrogen fertilizers and the increased residual inorganic nitrogen in agroecosystems adversely affect soil health and lead to water and air pollution. This special issue welcomes any new research, reviews, and opinion that address the environmental consequences of excessive nitrogen fertilizer use and/or propose management strategies to overcome such drawbacks while ensuring high-yield and sustainable agriculture. Laboratory and field experiments linking nitrogen fertilization to soil functions and ecosystem services are highlighted in this special issue. In addition, research that proposes site-specific management strategies based on the principle of synchronizing crop nitrogen requirements with nitrogen supply from all sources, including soil and fertilizers, is especially acknowledged.

Guest Editors

Dr. Kazem Zamanian
Dr. Jie Zhou
Prof. Dr. Huadong Zang

Deadline for manuscript submissions

closed (30 November 2022)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/124974

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

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





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



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



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

Journal Rank:

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