



Nutrient Cycling and Environmental Effects on Farmland Ecosystems

Guest Editors:

Prof. Dr. Wenxu Dong

Key Laboratory of Agricultural
Water Resources, Hebei Key
Laboratory of Soil Ecology,
Center for Agricultural Resources
Research, Institute of Genetics
and Developmental Biology,
Chinese Academy of Sciences,
286 Huaizhong Road,
Shijiazhuang 050021, China

Dr. Anna Walkiewicz

Department of Natural
Environment Biogeochemistry,
Institute of Agrophysics, Polish
Academy of Sciences,
Doświadczalna 4, 20-290 Lublin,
Poland

Deadline for manuscript
submissions:

closed (31 October 2024)

Message from the Guest Editors

Nutrient cycling in farmland is a vital safeguard for soil vitality and agricultural production, as well as a key factor in ecosystem balance. The excessive use of fertilizers, improper waste management, and reduced nutrient recycling have led to nutrient imbalances, water pollution, greenhouse gas emissions, and biodiversity loss. Understanding the intricate interplay between nutrient cycling and environmental effects is crucial for addressing these challenges and promoting environmentally friendly agricultural systems. Innovative research that explores the complex interactions between nutrient cycles, soil health, water quality, greenhouse gas emissions, and biodiversity conservation will form the core of this Special Issue.

This Special Issue aims to explore the mechanisms and processes of nutrient cycling in farmland ecosystems, and identify innovative approaches that promote sustainable nutrient management while minimizing negative environmental consequences. This Special Issue solicits original research articles, reviews, case studies, theoretical discussions, and policy papers addressing sustainable nutrient management in agriculture.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

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.

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)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi