



Effects of Soil Tillage and Fertilizer Management on Production of Cereal Crops

Guest Editor:

Dr. Juan Han

College of Agronomy, Northwest
A&F University, Taicheng 3,
Yangling, Shaanxi 712100, PR
China

Deadline for manuscript
submissions:
closed (31 March 2024)

Message from the Guest Editor

In the production of cereal crops, intensive tillage increases the mineralization of organic carbon in the soil, leading to a decrease in soil quality. In addition, the application of high-strength chemical fertilizers to enhance yield results in a large amount of nutrient loss in the form of volatilization, immobilization, denitrification, and leaching, as well as increasing the greenhouse gas emissions from farmland. Therefore, it is crucial to ensure high-quality farmland and promote sustainable cereal crop production. This Special Issue aims to present all recent progress and perspectives surrounding global soil tillage and fertilizer management for cereal crop production. This issue will contain the latest research findings on all relevant topics, including but not limited to: conservation agriculture, soil tillage, fertilization mode, crop yield, agricultural product quality, resource utilization efficiency, soil fertility and health, soil nutrient supply and circulation, sustainability of soil fertilization, greenhouse gas emissions, ecological and economic benefits, and life cycle assessment. Original research papers, communications, and review articles are welcome.





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), PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (*Agronomy*) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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