Special Issue

The Interaction between the Type of Fertilizer and Soil Carbon Cycling

Message from the Guest Editors

Diverse types of fertilizers are affecting agricultural production. Applying fertilizers to farmland inevitably leads to changes in soil carbon turnover, which has become a hot research topic in carbon cycling. This Special Issue aims to collect new information on cutting-edge research, such as fertilization management measures to promote soil carbon sequestration, soil carbon turnover pathways, and soil carbon conversion mechanisms under fertilizer regulation. Specifically, this Special Issue calls for original research, review, and small-scale studies of soil improvement methods and mechanisms, including but not limited to the following: the types and application methods of agricultural fertilizers; soil carbon sequestration and carbon stimulation effects; soil carbon cycling processes; soil carbon emissions and the balance of income and expenditure; and the biological mechanisms of soil carbon transformation.

Guest Editors

Dr. Xuebo Zheng
Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao 266101, China

Dr. Longlong Xia
State Key Laboratory of Soil and Sustainable Agriculture, Institute of Soil Science, Chinese Academy of Sciences, Nanjing 210008, China

Deadline for manuscript submissions

closed (25 February 2025)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/194943

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

mdpi.com/journal/agronomy

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/journal/agronomy

MDPI

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)