

Special Issue

Exploring the Potential for Crop Productivity by Applying Novel Agrochemicals, including Fertilizers, Biochar, Biostimulants, and Plant Nutrition Regulators

Message from the Guest Editors

The abundant supply of nutrients from fertilizers helps to ensure crop productivity. Agrochemists have dedicated themselves to developing and utilizing highly efficient agricultural chemicals to maximize crop yield with minimal nutrient input. The purpose of this Special Issue is to compile the latest advancements in highly efficient fertilizers, as well as substances/materials such as biochar, biostimulants, and plant nutrition regulators, that can enhance nutrient absorption and utilization when applied alone or in combination with common fertilizers. This Special Issue covers the characterization and identification of novel fertilizers/materials, their impacts on fertilizer nutrients, their behaviors in soil transportation, their transformation patterns within plants, their field performance including crop yield, and the underlying mechanisms of plant nutrition principles. Scientists from around the world are invited to submit their original research articles and review papers on advancements in the applications and mechanisms of innovative fertilizers and synergists to this Special Issue.

Guest Editors

Dr. Meng Xu

State Key Laboratory of Efficient Utilization of Arid and Semi-Arid Arable Land in Northern China, The Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Prof. Dr. Teodor Rusu

Faculty of Agriculture, University of Agricultural Sciences and Veterinary Medicine, Calea Manastur 3-5, 400372 Cluj-Napoca, Romania

Deadline for manuscript submissions

closed (20 September 2024)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/197486

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)