



Fertilizer Management Strategies for Enhancing the Growth, Yield and Quality in Crops

Guest Editor:

Dr. Peiyuan Cui

Key Laboratory of Crop Genetics and Physiology of Jiangsu Province/Co-Innovation Center for Modern Production Technology of Grain Crops of Jiangsu Province, Yangzhou University, Yangzhou 225009, China

Deadline for manuscript submissions:

10 January 2025

Message from the Guest Editor

Fertilizer management has always played an indispensable role in enhancing crop growth and promoting yield formation. The marginal effect of yield enhancement of essential macrolelements, such as nitrogen and phosphorus, is considerably reduced when used in large quantities, and also leads to a high pressure on the environment. Nutrient use efficiency can be further improved through a series of fertility management measures such as controlled release of fertilizers, elemental interactions, organic fertilizers or novel application techniques for fertilizers. In the pursuit of high yields, the heavy use of chemical fertilizers may result in a decline in crop quality. This Special Issue aims to discuss various fertilizer management strategies enhancing crop growth, yield and quality. Studies regarding nutrient management, precision agriculture, integrated soil fertility management, application methods, slow-release and controlled-release fertilizers, soil amendments or other products, crop rotation and cover cropping are invited for submission.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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, RePEc, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi