

## Special Issue

# Enhancing Crop Yield and Quality: Insights from Precision Agriculture and Agronomic Practices

### Message from the Guest Editor

Climate change poses major challenges for agriculture, with extreme temperatures and irregular rainfall patterns affecting crop productivity. To address this, scientists are developing new crop varieties and agrotechnologies that perform well under environmental stress while minimizing ecological impact. Precision agriculture plays a crucial role in enhancing yields and quality. Through data, automation, and technologies like drones, sensors, and satellites, farmers can optimize seeding, fertilization, irrigation, and pest control—applying resources at the right time and place for maximum efficiency. Sustainable practices are essential for long-term productivity. Techniques such as crop rotation, intercropping, legume cultivation, and catch crops protect the environment, preserve biodiversity, and improve soil health. These approaches support both higher yields and soil quality for future generations.

### Guest Editor

Dr. Agnieszka Klimek-Kopyra  
Department of Agroecology and Plant Production, University of Agriculture in Kraków, 31-120 Kraków, Poland

### Deadline for manuscript submissions

closed (15 March 2026)



## Agronomy

an Open Access Journal  
by MDPI

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/222282](https://mdpi.com/si/222282)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto: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)