

## Special Issue

# Application of Modern Agricultural Equipment in Crop Cultivation

### Message from the Guest Editors

The agricultural industry faces many challenges, and the answer to these challenges is sustainable agriculture, which combines the best of conventional technology with concepts of precision agriculture and digital technologies. Conventional agricultural technology has solutions that, increase soil carbon storage, and reduce CO<sub>2</sub> emissions. On the other hand, running a farm using precision farming technologies and digital techniques to monitor and optimize agricultural production processes allows farmers to, among other things, accurately perform sowing, fertilization, and crop protection, reduce their carbon footprint, and minimize their labor inputs. Therefore, this Special Issue aims to discuss a wide range of theoretical and experimental research works related to agricultural production processes where tangible benefits have been achieved through the implementation of modern agricultural engineering solutions, for example, a reduction in CO<sub>2</sub> emissions, a reduction in energy inputs, a reduction in seed, fertilizer, and pesticide use, an increase in yield, or a reduction in production costs. This Special Issue welcomes all types of articles.

### Guest Editors

Prof. Dr. Jacek Przybył

Department of Biosystems Engineering, Faculty of Environmental Engineering and Mechanical Engineering, Poznan University of Life Sciences, Poznan, Poland

Dr. Dawid Wojcieszak

Department of Biosystems Engineering, Faculty of Environmental Engineering and Mechanical Engineering, Poznan University of Life Sciences, Poznan, Poland

### Deadline for manuscript submissions

closed (15 September 2024)



## Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/187149](https://mdpi.com/si/187149)

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

[mdpi.com/journal/  
agriculture](https://mdpi.com/journal/agriculture)





# Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/journal/  
agriculture](https://mdpi.com/journal/agriculture)



## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

---

### 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

---

### 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)