

Special Issue

Advances in the Cultivation and Production of Leguminous Plants

Message from the Guest Editors

Leguminous plants are a crucial source of food and feed protein globally. However, recent climate changes, including droughts, floods, and storms, have frequently led to reduced yields and productivity of these plants. Efforts to mitigate cultivation risks can be made through breeding and selection of more resistant/tolerant varieties that thrive and yield better in less favourable environmental conditions, seed inoculation with symbiotic bacteria, optimization of water and nutrient utilization by plants, modern agricultural techniques, and the use of innovative yield-enhancing agents. Progress in the cultivation and production of legumes is essential for ensuring food and feed security in many regions of the world. This Special Issue aims to showcase advancements in agrotechnology and the comprehensive production of leguminous plants, resulting in increased yield size and quality. It addresses challenges related to the adaptation of these plants to changing climate conditions and underscores the importance of leguminous plants in sustainable agriculture, including their role as nitrogen factories (biological fixation of atmospheric N).

Guest Editors

Prof. Dr. Marcin Kozak

Institute of Agroecology and Plant Production, Wrocław University of Environmental and Life Sciences, Grunwaldzki Sq. 24 A, 50-363 Wrocław, Poland

Prof. Dr. Ewa Szpunar-Krok

Department of Crop Production, Faculty of Technology and Life Sciences, University of Rzeszów, Zelwerowicza 4 St., 35-601 Rzeszów, Poland

Deadline for manuscript submissions

closed (30 June 2025)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8



mdpi.com/si/192073

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

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





Agriculture

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8



[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, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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), GEOBASE, PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)