

Special Issue

Agriculture 4.0 as a Sustainability Driver

Message from the Guest Editors

In a global scenario of increasing environmental and economic pressure, agriculture is facing many challenges. In particular, climate change is likely to mean lower yields, increased pests and diseases and food insecurity. Henceforth, to achieve the food production requirements for the growing world population, which is predicted to reach 10 billion people by 2050, there is an urgent need to implement farming practices based on a new paradigm, integrating automation, artificial intelligence and digitalization for eco-friendly sustainable crop production, including weeding and pest control. In this way, traditional agriculture based on engine power will be assisted with precision by automated equipment and robotics (FAO). The aim of this Special Issue is to assemble innovative research on sustainable approaches for agricultural management in the context of Agriculture 4.0 aiming at the profitability of conserved and restored ecosystems. Original research articles and concepts for review articles to address major issues are welcome.

Guest Editors

Dr. Hernâni Gerós

Department of Biology, Universidade do Minho, 4710-057 Braga, Portugal

Dr. Natacha Fontes

Sogrape Vinhos S.A., Vila Nova de Gaia, Portugal

Deadline for manuscript submissions

closed (15 January 2023)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/91240

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), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)