Special Issue

Sustainable Cropping Systems and Biomasses for Energy and Biorefinery Applications

Message from the Guest Editors

In the competing uses of plant biomasses, the food vs. fuel conflict appears to be the most prominent mainly. Marginal agricultural or contaminated lands or derelict soils are being discussed as potential alternatives for biomass production. Moreover, such alternative production areas often promise to add ecological value through restoring or enhancing biodiversity while comprising the risk of affecting biodiversity. Areas with marginal soil characteristics are available worldwide. To unlock the potential of these areas, and simultaneously sustain the productivity of agricultural soils, a holistic approach comprised of (i) adapted biomass plants, (ii) alternative and sustainable cropping systems and (iii) efficient fertilization strategies needs to be investigated and employed. Securing or promoting biodiversity may become crucial in terms of (indirect) land-use changes (iLUC/LUC) associated with biomass production, and this requires careful consideration when opening and employing new areas for biomass production. Besides, smart bioenergy, material use and biorefinery value chains should be implemented to decarbonize the economy. We cordially invite all kinds of articles.

Guest Editors

Dr. Nicolai David Jablonowski

Dr. Moritz von Cossel

Dr. Yasir Iqbal

Deadline for manuscript submissions

20 October 2025

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/110638

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

mdpi.com/journal/agronomy

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/journal/agronomy

MDPI

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)