

Special Issue

Vermicompost in Sustainable Crop Production

Message from the Guest Editor

Sustainable crop production requires new means of fertilization in light of both the use of renewable resources and improving soil quality. The processing of biological waste by the concerted action of earthworms and microorganisms leads to the production of vermicompost—an organic fertilizer with high microbiological activity, rich in mineral nutrients and humic substances. The benefits from the application of vermicompost in agriculture are related to direct and indirect effects on crop plants as well as to the improvement of soil properties leading to a long-term increase in soil sustainability. However, the lack of understanding of specific mechanisms of beneficial influence hinders the ability to scientifically predict the outcome of vermicompost application in different crop production systems. Therefore, additional knowledge is necessary to characterize functional relationships involved in vermicompost production and after its application in soil. Contributions to this topic are welcome reporting results both from laboratory and field studies concerning earthworm/microorganism/soil/plant interactions at different levels from vermicompost production to application.

Guest Editor

Prof. Dr. Gederts levinsh

Department of Plant Physiology, Faculty of Biology, University of Latvia,
1 Jelgavas Street, LV-1004 Rīga, Latvia

Deadline for manuscript submissions

closed (20 August 2022)



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/93010

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 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)