

Special Issue

Sustainability Issues in Plant Growth and Development: Environmentally Friendly Alternatives for Pest Management

Message from the Guest Editor

The search for environmentally friendly alternatives in pest management has intensified because of the need to reduce the negative impacts of organosynthetic pesticides. Biological control, pheromones, and bioinsecticides are promising alternatives to conventional management. Biological control, a technique that uses living organisms to control pest populations, has emerged as an effective and sustainable option. Moreover, the use of pheromones in pest management can be an effective and sustainable strategy. These substances can be employed to monitor the presence of pests, confuse their reproduction, attract them to traps, or disorient them in their search for food, thus reducing the need for pesticides. Another approach is the use of bioinsecticides, which are products based on living organisms or their derivatives, with insecticidal action. The combination of these approaches, along with integrated pest management practices, can significantly reduce dependence on organosynthetic pesticides and promote the sustainability of agricultural systems.

Guest Editor

Prof. Dr. Leandro Bacci

Department of Agricultural Engineering, Universidade Federal de Sergipe, Sao Cristovão 49100-000, Brazil

Deadline for manuscript submissions

31 May 2025



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.8



mdpi.com/si/205624

Sustainability
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.8



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



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)