Special Issue

Biorational Plant- and Microbial-Based Products for Controlling Neotropical Pests

Message from the Guest Editors

Plant-derived biorational products have re-emerged as an eco-friendly approach for controlling pests in agriculture and animal health. Indigenous communities historically utilized products such as pyrethrum, nicotine and rotenone. Synthetic pesticides inspired by these substances have effectively controlled pests. This Special Issue provides a historical overview of synthetic pesticides derived from plants, emphasizing the growing importance of neotropical flora in developing eco-friendly alternatives for major pests in the region. Cutting-edge research explores the secondary metabolism of plants as a source of bioactive compounds, with a focus on neotropical flora. Solicited papers for this Special Issue include biorational pest control, botanical pesticides, sustainable pest management, alternative pest control, biorational control of diseases, pesticide development, nanoproducts and formulations, molecular and physiological basis for modes of action/selectivity, and unintended effects on non-target organisms of biorational pesticides.

Guest Editors

Dr. Eugenio E. Oliveira

Dr. Hong Yang

Prof. Dr. Guy Smagghe

Dr. Raimundo Wagner S. Aguiar

Deadline for manuscript submissions

closed (31 October 2024)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/196027

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)