

## Special Issue

# Green Insect Control: The Potential Impact of Plant Essential Oils

### Message from the Guest Editors

The search for innovative and safe bioinsecticides is continuously growing. Indeed, the risks associated with the use of conventional insecticides triggered interest in developing sustainable alternatives for insect control. In this context, plant essential oils (EOs) are gaining a substantial traction as potential novel bioinsecticides. Their range of application has recently expanded to phytopharmaceuticals as well as in foods and beverages. EOs have already demonstrated potential in the management of noxious insects. Moreover, they boast relative safety to human health and non-target organisms, low persistence in the environment, multiple modes of action, and often broad availability. EOs for insect control as well as the development of formulative tools for their correct application are still under investigation. This Special Issue of *Plants* will focus on the insecticidal properties of plant EOs, their extraction, chemical characterization, and safety. Furthermore, it will focus on the development of innovative formulative systems of EOs to be employed for insect control strategies, analyzing the real-world future applications of these plant-derived products.

---

### Guest Editors

Dr. Eleonora Spinozzi

Prof. Dr. Nickolas G. Kavallieratos

Dr. Paolo Rossi

---

### Deadline for manuscript submissions

25 December 2024



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 6.5  
Indexed in PubMed



[mdpi.com/si/187578](https://mdpi.com/si/187578)

*Plants*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto:plants@mdpi.com)

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





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 6.5  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

---

### Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, 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 (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)