

Special Issue

Advances in Chemical Ecology of Plant–Insect Interactions

Message from the Guest Editors

In nature, herbivory-induced plant volatiles (HIPVs) as well as many other semiochemicals are important chemical cues for regulating population ecology and population dynamics, particularly within insect species, as well as plant–insect interactions. Semiochemicals, including pheromones, kairomones, allomones and synomones, can be used as monitoring and control tools (i.e., mating disruption, mass trapping, attract and kill, push and pull) to decrease pest populations, as well as increase crop defense and protection. This Special Issue welcomes original research on the characterization of HIPVs, pheromones, kairomones and other semiochemicals which mediate intra- and inter-specific communication between arthropods and agricultural plant species. Manuscripts may focus on chemical (GC-MS, GC-FID, PTR-MS, etc.) and electroantennographic (EAG, GC-EAD, GC-MS-EAD) characterization of volatile compounds, as well as on behavioral and field studies and the development of new applications in monitoring and/or control of agricultural, forest and stored-product pests.

Guest Editors

Prof. Sergio Angeli

Prof. Gianfranco Anfora

Prof. Dr. Giacinto S. Germinara

Deadline for manuscript submissions

31 August 2025



Insects

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/190447

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

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





Insects

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.6
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Brian T. Forschler
Department of Entomology, University of Georgia, 413 Biological
Sciences Building, Athens, GA 30602-2603, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed,
PMC, PubAg, and other databases.

Journal Rank:

JCR - Q1 (Entomology) / CiteScore - Q1 (Insect Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 18.1 days after
submission; acceptance to publication is undertaken in 2.9
days (median values for papers published in this journal in
the first half of 2025).