

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

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

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About the Journal

Message from the Editor-in-Chief

Arthropods are a diverse and abundant group of animals that are important to a variety of research dictates. For example, hexapods act as bio-indicators of ecosystem function and pest status and serve as model systems for questions concerning physiology, embryology, genetics, and social interaction. The editorial board and staff at *Insects* is committed to providing contributors an open access forum to showcase objective and innovative research as well as succinct review articles. Our journal is dedicated to providing timely and thorough review of qualified submissions and we welcome you to submit a contribution.

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

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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).