

Special Issue

Insect Dynamics: Modeling in Insect Pest Management

Message from the Guest Editor

Insect pests share a common attribute. Their densities and genetic profiles often change rapidly in space and time. Management tactics that ignore this feature of their life histories are usually based upon unidimensional tactics, such as the sole use of pesticides, which are not integrated with cultural, biological, or behavioral methods of control and are certain to fail in the long term. This Special Issue is focused on the use of modeling, specifically, conceptual, statistical, numerical, or simulation methods that provide the basis for a more integrated and sustainable pest management system either for a single pest or a complex of several pests associated with an agroecosystem. Submitted papers should present the ecological background and pest dynamics that are integral to the focal pest or pests and then describe the modeling approach used to investigate pest dynamics from a management perspective. The results are expected to enhance or design a new sustainable pest management strategy or provide a new view of the pest dynamics that may aid in future pest management tactics.

Guest Editor

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Deadline for manuscript submissions

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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

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Author Benefits

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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).