Topical Collection

Pesticide Chemistry and Toxicology

Message from the Collection Editor

Insecticides are chemical substances used to control insect pests that can damage public health or the economy. However, many insecticide chemicals are resistant to degradation in the environment and have bio-accumulative properties. Even after banning some insecticides, they can still accumulate in the environment and adversely affect non-target organisms and human health. Hence, understanding how insecticides operate and how these chemicals can adversely affect their surrounding nature is essential. This Topical Collection will report recent discoveries and review key subject areas of insecticide chemistry and toxicology for safe and effective insect pest management. We invite manuscripts that focus on one or more of the following research areas: (1) identifying novel insecticide targets or modes of action; (2) xenobiotic metabolism and selective toxicity; (3) formulation and rational insecticide use; (4) resistance mechanisms and new methods to circumvent insecticide resistance; (5) environmental persistence and recommendations for safe and effective insect pest management.

Collection Editor

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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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Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 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).