

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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Message from the Editor-in-Chief

Editor-in-Chief

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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 18.1 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).