

## Special Issue

# Insecticide Resistance and Toxicology: Challenges in Pest Management and Basic Research—2nd Edition

### Message from the Guest Editor

Insecticide resistance is a serious problem affecting the efficacy and utility of compounds. It is exhausting our agricultural arsenal against pests. Scientists are engaged in investigating the mechanisms by which insects develop resistance to insecticides, such as target protein resistance, metabolic resistance, cuticular resistance and increased transporter activity, which leads to the excretion of insecticide from the pest. Considering the success of the earlier Special Issue, we are pleased to launch a second Special Issue on the same topic, welcoming laboratory and field studies on insecticides toxicology; discovery of novel molecular targets of insecticides; comparative toxicology of insecticides; mechanism of resistance of agricultural, forestry and health pests to chemical and biological insecticides; and monitoring and control technology for pest resistance. Both original research articles and reviews will be considered for publication.

### Guest Editor

Dr. Shun-fan Wu

Laboratory of Bio-Interactions and Crop Health, College of Plant Protection, Nanjing Agricultural University, Nanjing 210095, China

### Deadline for manuscript submissions

30 November 2025



## Insects

an Open Access Journal  
by MDPI

Impact Factor 2.9  
CiteScore 5.6  
Indexed in PubMed



[mdpi.com/si/205227](https://mdpi.com/si/205227)

*Insects*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[insects@mdpi.com](mailto: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).