

Special Issue

Research on Insecticides and Their Applications

Message from the Guest Editors

The advent of synthetic insecticides in the last century has made the control of agriculture and health pests much more effective, and such chemicals remain essential in modern agriculture despite affecting non-target organisms and causing environment pollution. The aim of research on insecticides and their applications is to balance the risks and benefits of insecticide application. This Special Issue aims to achieve a sustainable use of insecticides by reducing the risks associated with insecticide use in agriculture and promoting the use of integrated pest management and alternative green approaches and techniques. Research articles will cover topics related to insecticides use status, insecticides risk evaluation, new techniques of insecticides application, synthesis and application of insecticides, field pest insecticides resistance status, insecticides resistance mechanisms, and insecticides resistance management strategies. For this Special Issue, we welcome all types of articles, including original research, opinions, and reviews.

Guest Editors

Prof. Dr. Xin Yang

Prof. Dr. Xun Zhu

Dr. Ran Wang

Deadline for manuscript submissions

20 August 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/177529

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

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)