

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

closed (20 August 2025)



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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

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