

## Special Issue

# Effects of Agricultural Chemicals–Pesticides on Insects and Soil Organisms

### Message from the Guest Editors

Agricultural chemical compounds known as pesticides are widely used to combat diseases, pests, and weeds, in order to increase food production, yield foodstuff, and prevent food losses. Pesticides are designed to be toxic with various modes of action; besides being toxic to the target pest species they are intended to control, they are also harmful to non-target organisms. In addition to direct lethal effects, sublethal effects of pesticides on environmental organisms are also common after application in the field. Moreover, due to their long-term and extensive use, pesticide resistance has become one of the challenges of integrating pesticides into an existing integrated pest management (IPM) program. All these effects will substantially impact on the rational scientific use of pesticides in the field. Considering the enormous quantity of newer and a wide variety of modes of action of pesticides applied in agriculture, understanding the potential impacts of pesticides on target or non-target organisms, including pesticide resistance and its mechanisms, has become paramount in the IPM program.

---

### Guest Editors

Dr. Xiaoming Xia  
Dr. Youhui Gong  
Dr. Ting Li

---

### Deadline for manuscript submissions

closed (20 February 2024)



## Toxics

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/158190](https://mdpi.com/si/158190)

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

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





# Toxics

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 6.4  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Toxics* (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

---

### Editor-in-Chief

Dr. Demetrio Raldúa  
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18,  
08034 Barcelona, Spain

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Chemical Health and Safety)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2025).