

## Special Issue

# Phytotoxicity of Heavy Metals in Contaminated Soils

### Message from the Guest Editors

The presence of inorganic pollutants in soils (e.g., heavy metals) is one of the most serious environmental problems around the world. After the use of different remediation techniques, the control of metal toxicity can be easily assessed by the determination of phytotoxicity for native or introduced plants. This Special Issue aims to recruit recent research studies on the remediation and restoration techniques in heavy-metal-polluted soils and the determination of potential toxic effects from phytotoxicity observations. - Amendments and management of agricultural soils to control the phytotoxicity and bioaccumulation of metals in crops; - Species resistant to metal toxicity and their possible use in phytoremediation; - Application of omics-based tools in the risk assessment of metals and metal-based nanoparticles; - Development of predictive models for quantifying metal bioavailability and phytotoxicity; - Metal mixture interactions at the toxicokinetic and toxicodynamic phases in soil–plant systems; - Application of technosols for the remediation of contaminated soils and their effect on the vegetation cover.

---

### Guest Editors

Dr. Ana Romero Freire

Dr. Manuel Sierra Aragón

Dr. Hao Qiu

Dr. Er kai He

---

### Deadline for manuscript submissions

closed (31 March 2023)



## Toxics

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 6.4  
Indexed in PubMed



[mdpi.com/si/118547](https://mdpi.com/si/118547)

*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 18.1 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).