

Special Issue

Phytotoxic Activity of Metal-Based Contaminants

Message from the Guest Editors

It is particularly important to understand the phytotoxic activity of metal contaminants as well as the mechanisms undertaken by plants to counteract their effects, in order to find new strategies for improving crops' resilience to metals and to develop new approaches for metal phytoremediation. This Special Issue aims to provide a concentrated venue to publish timely and relevant research on the field of metal phytotoxicity, paying attention to the major targets of metals in crops, the physiological, metabolic, and molecular mechanisms activated by crops to respond to metal toxicity, and the tolerance mechanisms that metallophyte species exhibit. Authors are invited to submit original research papers, reviews, and short communications. Research areas may include (but are not limited to):

- Concentration of metals and metalloid contaminants in terrestrial environments;
- Uptake, accumulation, and effects in plants species, especially in plant metabolism;
- Metal phytotoxic activity in tolerant versus sensitive plants;
- Unveiling of the metal tolerance mechanisms in plants;
- Strategies for metal phytotoxicity mitigation;
- Phytoremediation strategies.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)



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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

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Author Benefits

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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).