

Special Issue

Rare Trace Elements in Plants: Translocation, Accumulation and Toxicity

Message from the Guest Editor

The literature on trace elements in the environment is extensive. So far, however, less than twenty elements have been recognized as essential nutrients. An insufficient quality of analytical techniques is probably one of the reasons information on the significance or toxicity of the elements is still limited. With the development of new methods, data on the biogeochemistry of previously poorly studied trace elements will undoubtedly expand. Although some of the research has recently shifted to the study of “new” trace elements, the available experimental results are still scarce and often contradictory. This Special Issue is devoted to the biogeochemistry of trace elements with a particular focus on ultratrace elements of unknown biological significance. We would like to invite you to contribute to this Special Issue and present new experimental data on various aspects of analytical chemistry, rhizosphere chemistry, and the environmental chemistry of poorly studied trace elements, as well as factors affecting the bioavailability of the elements in soil, statistical models, and other applications.

Guest Editor

Dr. Irina Shtangeeva

Institute of Earth Sciences, St. Petersburg State University, St. Petersburg, Russia

Deadline for manuscript submissions

closed (30 September 2023)



Toxics

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 4.5
Indexed in PubMed



mdpi.com/si/146057

Toxics

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxics@mdpi.com

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





Toxics

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 4.5
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 - Q2 (Chemical Health and Safety)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 2.3 days (median values for papers published in this journal in the second half of 2024).