

Special Issue

New Insights into the Environmental Behaviour and Toxicity of Critical and Strategic Metals in Aquatic Ecosystems

Message from the Guest Editors

The low-carbon transition demands critical minerals (PGMs, REEs, Co, Ni, Li, etc.), posing significant risks to aquatic ecosystems. Predictive toxicology tools remain limited due to insufficient environmental and toxicological data, hindering risk assessment for these emerging contaminants. Many lack environmental regulations despite presence in waterways. We invite original research on:

- Environmental behavior of critical minerals
- Concentrations in water, sediment, air, and biota
- Organism interactions (bioavailability/bioaccumulation)
- Toxicity of single/mixed exposures

Studies using conventional or innovative approaches (e.g., omics) in lab/field settings are welcome to advance timely toxicological insights.

Guest Editors

Dr. Maikel Rosabal

Prof. Dr. Séverine Le Faucheur

Dr. Xu Yang

Deadline for manuscript submissions

closed (20 November 2025)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/240996

Toxics
Editorial Office
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 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).