

Special Issue

Bioaccumulation and Toxicokinetics of Organic and Inorganic Compounds in Aquatic and Soil Organisms

Message from the Guest Editors

The presence of toxic compounds in the environment is a major cause of concern. Toxic compounds can be organic and inorganic chemicals, such as pesticides, pharmaceuticals, metals, nanoparticles, microplastics and polycyclic aromatic hydrocarbons, among others, usually used in human activities. The toxicity of these compounds is intrinsically related to their bioavailability, determining any adverse effects that may occur and potentially eventually leading to their bioaccumulation. Bioaccumulation studies are therefore a helpful tool to understand the link between exposure and bioavailability, and consequently to assess the risk imposed by such pollutants to ecosystems. This Special Issue aims to publish original research papers, review/mini-review papers, short communications, and case studies covering aquatic and terrestrial bioaccumulation. Research areas may include (but are not limited to) the following: Toxicokinetic and toxicodynamic studies. Bioaccumulation studies of emerging contaminants in vivo and in vitro. In vivo and in vitro biotransformation studies. Biomagnification of chemicals along a trophic chain. Bioaccumulation monitoring studies.

Guest Editors

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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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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).