Special Issue

Impacts of Organic Micropollutants and Potentially Toxic Elements: Analytical chemistry, Environmental Fate, Ecotoxicology, Risk Assessment and Remediation

Message from the Guest Editor

The environmental fate of OMPs and PTEs involves understanding their transport, transformation, and degradation processes, which are influenced by factors such as pH, temperature, and microbial activity. Ecotoxicology studies the adverse effects of these contaminants on ecosystems, including impacts on aquatic life, soil organisms, and plant health. Risk assessment frameworks evaluate the potential harm to human health and the environment by integrating exposure data with toxicity information. Effective risk assessment informs regulatory policies and guides remediation strategies. Remediation technologies aim to reduce or eliminate the presence of OMPs and PTEs from contaminated sites, utilizing methods such as bioremediation, phytoremediation, and advanced oxidation processes. These interdisciplinary efforts are essential for mitigating the negative impacts of OMPs and PTEs, safeguarding environmental health, and ensuring sustainable management of natural resources. Our Special Issue aims to summarise the importance of ecotoxicological and environmental analysis studies providing appropriate data for a complete risk assessment of OMPs and PTEs.

Guest Editor

Dr. Eszter Takács

Agro-Environmental Research Centre, Institute of Environmental Sciences, Hungarian University of Agriculture and Life Sciences, Budapest, Hungary

Deadline for manuscript submissions

closed (31 December 2024)

Toxics

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/211110

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

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

MDPI

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).