

Special Issue

Techniques and Methods for Toxic Agent Analysis and Removal

Message from the Guest Editors

Inorganic and organic compounds are an essential part of our daily life. An increasing number of toxic agents (heavy metals, polycyclic aromatic hydrocarbons, pesticides, xenobiotics) provided by industrial activities, waste storage, agricultural activities and traffic from large urban centres cause air pollution or enter into the aquatic environment and are absorbed into aquatic organisms.

In recent years, the interest and attention of the scientific community for the development of improved analytical methods and techniques for the analysis and removal of pollutants have increased, especially monitoring of traces of these pollutants.

Innovative methods for the determination of trace amounts of heavy metals, anions, and organic compounds are needed, including methods that do not generate toxic by-products or poisonous residues. An important role in human health and toxicology studies is the balance between environmental pollutants and antioxidant defences in biological systems. Based on these considerations, this Special Issue aims to attract high-level research in the field of removing toxic agents from water, air, soil, with the aim of protecting the environment and human health.

Guest Editors

Prof. Dr. Petru Negrea

Faculty of Chemical Engineering, Biotechnologies and Environmental Protection, Politehnica University Timisoara, Victoriei Square no 2, 300006 Timisoara, Romania

Dr. Nicoleta Sorina Nemeş

Research Institute for Renewable Energies—ICER, Politehnica University Timisoara, Gavril Musicescu no 138, 300774 Timisoara, Romania

Deadline for manuscript submissions

closed (13 December 2024)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/194579

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 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).