

Special Issue

Biodegradation and Remediation of Toxic Chemicals Contaminated Soil System

Message from the Guest Editors

Globally, the soil environment is constantly being attacked by toxic chemicals (heavy metals, pesticides, persistent organic pollutants, microplastics, antibiotics, emerging pollutants, etc), posing a potential threat to human health and ecosystems. In order to further study and understand the removal mechanism of toxic chemicals in soil, this Special Issue of *Toxics* focuses on the current state of knowledge regarding the biodegradation and remediation of a toxic-chemical-contaminated soil system. Novel research articles and reviews are welcome and may include, but are not limited to, the following topics: (1) The complex migration and transformation process of toxic chemicals in soil; (2) The dynamic changes in biodiversity, abundance, and distribution of microbial metabolic pathways; (3) Enzyme systems and related gene expression in the process of pollutant degradation; (4) Systematic toxicological analysis to explore the environmental and biological effects of toxicity; (5) Analysis of metabolites produced during biodegradation and remediation and their toxicity.

Guest Editors

Prof. Dr. Zongqiang Gong

Prof. Dr. Haibo Li

Dr. Xin Wang

Deadline for manuscript submissions

closed (31 July 2024)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/193942

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).