

Special Issue

Biochemical Remediation and Ecological Risk Assessment of Heavy Metal Contaminated Soil

Message from the Guest Editor

Heavy metals contamination in soil attracted great attention globally due to their toxic, persistent, non-degradable characteristics. The accumulation of heavy metals in soils is accelerated by many anthropogenic activities. Therefore, it is necessary to analyze the content of heavy metals in soil in different regions and their potential risk. Based on the evaluation results, some of the soils have to be remediated. Biochemical remediation comprises a number of cost-effective and environmentally friendly plant- and microbial-assisted technologies for remediation of heavy metals contaminated soil, which can reduce the total content of heavy metals in soil, or increase the stability of heavy metals in soil, or reduce the accumulation capacity of plants to these heavy metals.

The aim of this Special Issue is to bring together the contributions of all aspects about biochemical remediation and risk assessment of heavy metals in soil, includes i) risk assessment and source apportionment of heavy metals in soil; ii) remediation of heavy metals in soil with various technologies, especially for biochemical technologies.

Guest Editor

Dr. Yangyang Wang

Henan Engineering Research Center for Control & Remediation of Soil Heavy Metal Pollution, Henan University, Kaifeng 475004, China

Deadline for manuscript submissions

closed (31 December 2023)



Toxics

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/150115

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).