



Integrated Remediation Processes toward Heavy Metal-Contaminated Environment

Guest Editors:

Dr. Liang Hu

School of Minerals Processing
and Bioengineering, Central
South University, Changsha,
China

Dr. Luhua Jiang

School of Minerals Processing
and Bioengineering, Central
South University, Changsha,
China

Dr. Zhigang Yu

Australian Centre for Water and
Environmental Biotechnology, St
Lucia QLD 4072, Australia

Deadline for manuscript
submissions:

15 September 2024

Message from the Guest Editors

Dear Colleagues,

With the development of urban industrialization and the utilization of mineral resources, a lot of toxic pollutants enter the water ecosystem, agricultural soil and atmosphere, which cause a serious threat to human health. Under the national dual carbon target, researchers are trying to exploit the integrated technologies for pollution removal and carbon reduction. To date, various remediation technologies have been developed worldwide to deal with the contaminated water, soil, or even groundwater. It is expected that the dual carbon target associated with heavy metal remediation can be concurrently achieved. This Special Issue aims to receive submissions of high-quality, original, and previously unpublished research on the fundamental theory and engineering practice of the heavy metal remediation technologies, including, but not limited to, the following topics:

- Biogeochemical processes of heavy metal, including migration, transformation, fate, oxidation, reduction;
- Advanced heavy metal remediation technology (targeting, persistence, mechanism);
- Ecological safety assessment methods of remediation technology.





toxics



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Toxicology*) / CiteScore - Q2 (*Chemical Health and Safety*)

Contact Us

Toxics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxics
toxics@mdpi.com
X@Toxics_MDPI