



*toxics*



an Open Access Journal by MDPI

## Emerging Remediation Technologies for PFAS-Contaminated Soils

Guest Editors:

**Dr. Hamidreza Sharifan**

Department of Chemistry and  
Biochemistry, The University of  
Texas at El Paso, 500 W.  
University Ave., El Paso, TX 79968,  
USA

**Dr. Xingmao Ma**

Department of Civil and  
Environmental Engineering,  
Texas A&M University, College  
Station, TX 77843, USA

Deadline for manuscript  
submissions:

**closed (18 July 2025)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue, titled "Emerging Remediation Technologies for PFAS-Contaminated Soils", focuses on the latest advancements in addressing the pervasive environmental challenge posed by poly- and perfluoroalkyl substances (PFAS) contamination in soils. PFASs, known for their persistence and resistance to degradation, pose significant risks to ecosystems and human health. This Issue compiles cutting-edge research on innovative remediation technologies, including physical, chemical, and biological approaches, to effectively mitigate PFAS contamination. Key topics include novel adsorption materials, advanced oxidation processes, electrochemical methods, and phytoremediation techniques. This Special Issue aims to highlight the effectiveness, scalability, and sustainability of these emerging solutions, providing a comprehensive overview for researchers, policymakers, and environmental practitioners. By showcasing successful case studies and experimental breakthroughs, this collection of studies seeks to drive forward the development and implementation of effective strategies to remediate PFAS-contaminated soils and protect environmental and public health.



[mdpi.com/si/208507](https://mdpi.com/si/208507)

**Special** Issue



*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](#), [CAPus / SciFinder](#), [AGRIS](#), and [other databases](#).

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

## Contact Us

---

*Toxics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/toxics](http://mdpi.com/journal/toxics)  
[toxics@mdpi.com](mailto:toxics@mdpi.com)  
X@@Toxics\_MDPI