Special Issue

Heavy-Metal Soil Contamination: Sources, Opportunities, and Sustainable Solutions

Message from the Guest Editor

This Special Issue will offer an interdisciplinary perspective and apply new insights to examine soil contamination and promote environmentally sustainable management. With urban growth and the ongoing expansion of populations into abandoned industrial, mining, urban, traffic, and military areas, innovative technologies for soil modeling processes and remediation represent an increasingly important research topic. We welcome the submission of papers on the occurrence, migration, and accumulation of rare-earth elements and potentially toxic elements in soils and dust, originating from various natural sources and anthropogenic sources. Sustainability is a new priority in the remediation of contaminated land. Research on the behavior and spatial distribution of both native and non-native potentially harmful elements in soils is essential to the restoration of contaminated sites. The potential of artificial intelligence (AI), machine learning (ML), and deep learning (DL) to tackle these challenges is significant, as the advent of these technologies has transformed data management and analysis processes.

Guest Editor

Dr. Pedro Tume

Civil Engineering Department, Universidad Católica de la Santísima Concepción, Concepción, Chile

Deadline for manuscript submissions

25 March 2026

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/217731

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/sustainability

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/journal/sustainability

About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)