Special Issue

The Environmental Threats of Water and Soil Surrounding the Mine

Message from the Guest Editor

In mining areas, ore exploitation may generate an important source of contamination in surface waters, groundwater, and soils located in the vicinity of the main mine-waste impoundments. The main consequences of unremediated mine sites containing sulfide minerals are the generation of acidic mine drainage waters and the possible mobilization of metals and metalloids. Some authors have shown the relationship between the types of mineral deposits and their environmental signature. Also, mineral deposits hosted by carbonate sedimentary rocks tend to have mine-drainage water compositions with near-neutral pH; elevated concentrations of dissolved SO42-, Fe, Zn, As, Sb and Tl may be generated under these conditions. The main objectives of this Special Issue are to evaluate metal mobilization and release of toxic elements from mine wastes and mine waters in mining areas from soil, groundwater, sediment and surface water data. Also conducting tests both in the laboratory and in the field may be an interesting approach in order to evaluate the mobility of contaminants. In addition, geochemical modeling used in order to evaluate the geochemical processes is of great interest.

Guest Editor

Dr. Andrés Navarro

Department of Fluid Mechanics, Polytechnic University of Catalonia, Colón 7–11, 08222 Terrassa, Spain

Deadline for manuscript submissions

closed (1 September 2021)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/62784

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



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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

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)

