# **Special Issue**

# Criticality Versus Geological Scarcity: Different Concepts, Which May Need Tuning

# Message from the Guest Editor

This Special Issue explores the difference between critical raw materials on the one hand and geologically scarce mineral resources on the other. Criticality focuses on the vulnerability of the current generation with regard to temporary supply disruptions. The time horizon is short-term. The scale of mitigation strategies is on the level of companies, sectors, countries, regions. Geological scarcity focuses on vulnerability of future generations with regard to depletion of (certain) mineral resources. The time horizon is long-term. The scale of mitigation strategies is global (similar to climate strategies). This Special Issue presents an overview of the most recent knowledge on both criticality and geological scarcity, analyzes the impact of the energy and mobility transitions on the availability of critical raw materials and geologically scarce mineral resources, and explores the respective approaches and policies to mitigate the impact of criticality and geological scarcity. Finally, it is discussed how risk management strategies with regard to critical raw materials can be tuned with long-term policies with regard to geologically scarce mineral resources.

#### **Guest Editor**

Dr. Theo (M. L.C.M.) Henckens

Senior Research Fellow of the Copernicus Institute of Sustainable Development, Utrecht University, Heidelberglaan 2, 3584 CS Utrecht, The Netherlands

## Deadline for manuscript submissions

closed (30 November 2022)



# **Sustainability**

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/65426

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. *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 OC5, 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)

