Special Issue

Sustainable Mining as the Key for the Ecological Transition: Current Trends and Future Perspectives

Message from the Guest Editors

The environmental and societal challenges associated with the increased demand for mining and therefore lower environmental impacts requires two words—Sustainable Mining. Sustainable Mining is a truly interdisciplinary activity calling for a wide variety of expertise, including: geological knowledge and exploration skills to unravel conventional and unconventional resources; development of more effective and environmental friendly extraction, beneficiation and metallurgical techniques; deep understanding of the long-term environmental impacts of extraction, processing and waste management activities; waste recycling as secondary sources; advances in reclamation planning to minimize the permanent effects and return mining lands for re-naturalization; or other uses. In this Special Issue, we welcome papers dealing with any facet of this wide spectrum of topics, with the ultimate goal of offering an up to date snapshot of the state of the art and of upcoming challenges. Although we expect mostly contributions based on geosciences and engineering, we do not exclude a priori manuscripts involving biology, health, and social issues.

Guest Editors

Prof. Dr. Pierfranco Lattanzi

Dr. Elisabetta Dore

Dr. Fabio Perlatti

Dr. Hendrik Gideon Brink

Deadline for manuscript submissions

closed (5 November 2023)

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

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JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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