Special Issue

Renewable Energy in Mineral Processing

Message from the Guest Editor

The increasing demand for minerals and metals and their environmental impacts of processing pose a significant challenge for society. It is highly energy intensive industry. In recent years, there have been a few developments in large-scale renewable energy technologies and example cases can now be given for the use of renewable energy such as solar and wind at an industrial scale. The Large scale solar photovoltaic (PV) farms have been in use for few mining operations in Chile and Australia supplementing their energy need. The Concentrated solar thermal (CST) energy can potentially be used for mineral processing where medium grade heat is required (e.g., concentrate drying and iron ore induration). Techno-economic performance and environmental benefits of such propositions are also necessary for the wide adoption of such technologies. *Minerals* is planning for a Special Issue focusing on integrating large scale renewable energy use in mining, mineral processing, and metal production. Any research concerning this topic will be considered for publication in this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2019)

Minerals

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/27191

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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.

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Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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