Special Issue

Gravity, Magnetic and Electrostatic Forces for Mineral Separation

Message from the Guest Editors

This Special Issue will cover the latest developments in gravity, magnetic and electrostatic techniques for mineral separation, including primary mineral extraction and recycling. Research addressing dry processing challenges is particularly welcome. Gravity separation includes both low gravity (e.g., space applications) and enhanced gravity. Separation exploiting magnetic forces includes low and high intensity, wet and dry applications. Electrostatic forces for mineral separation include charging by corona discharge, conductive induction and tribocharging. Papers that demonstrate new understanding and modelling of these complex systems are particularly welcome, as are those that show new developments in equipment design and plant design or new applications of existing technology. Papers from academia and industry are invited.

Guest Editors

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Deadline for manuscript submissions

closed (6 August 2021)

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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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indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

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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