Special Issue

High Gradient Magnetic Separation

Message from the Guest Editors

With the increasing decline in ore quality and the increasing demand for high-quality raw materials, such high-gradient magnetic separation technologies with higher separation performance are inevitably required by industry, and they include the scaling-up of current high-gradient magnetic separators to meet the larger-scale and lower-cost exploitation of low-grade ores, the higher magnetic induction for recovery of finer magnetic minerals and for more effective purification of non-metallic ores, the innovative fundamentals for development of new high-gradient magnetic separators, and the extended applications in various processing flowsheets and for minerals previously thought impossible to be magnetically separated, etc. This Special Issue is intended to collect the latest findings in the aspects of high-gradient magnetic separation as discussed above; however, other related papers in the area of magnetic separation will also be covered.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 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.

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Journal Rank:

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

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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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