

Special Issue

Gravity Concentration

Message from the Guest Editors

Many of the resources that man extracts from nature are of mineral origin. However, rarely are these nonrenewable resources in a position to be used directly. Thus, the minerals need to undergo some beneficiation. The choice of the concentration process to be used in a mineral depends on the physical and chemical characteristics of the constituents to be separated. Gravity ... The size that can be processed ranges from very coarse materials, coarser than 100 mm, concentrated through heavy media vessels or ROM jigs, to very fine particles, about 10 microns, concentrated through centrifugal processes. This Special Edition aims to bring together scientific articles in all areas of gravity concentration. From fundamental stratification theory to circuits plant operations, through concentration equipment, control, simulation, and optimization of gravity concentrators.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2020)



Minerals

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Impact Factor 2.2
CiteScore 4.4



mdpi.com/si/34789

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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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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).