

Special Issue

Recent Advances in Flotation Process

Message from the Guest Editors

It is well-known that froth flotation has been one of the most important methods for separating different minerals based on the difference in their wettability in relation to appropriate circuit design, optimization, and dynamic process control as well as the true selection of reagent type, particle size, pH, etc. New research, applications, and control systems are required to shed light on very fine liberation sizes and on more complex structures of target minerals and provide a solution for the enrichment of minerals using the flotation method. In this regard, the challenges are not only those listed above but also include the usage of water and energy and the costs of the grinding conditions, which need to be adjusted to obtain suitable particle sizes and liberation. Research papers discussing theoretical aspects of flotation, reagent characterization, improved plant applications, and control systems and new and developable studies from lab-scale to plant-scale applications for all types of ore deposits are invited for submission this Special Issue entitled “Recent Advances in Flotation Process”.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 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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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).