

Special Issue

Flotation of Fine-Grained Minerals

Message from the Guest Editors

Flotation is used as the principal method for concentrating minerals, which accounts for more than half of world's production. Flotation performance deteriorates rapidly when operating in particle fines due to the complicated interface phenomenon and unfavored hydrodynamics. Flotation of particle fines could also cause problems such as high reagent consumption, non-selective reagent adsorption, excessive froth stability, and mechanical entrainment. To overcome the disadvantages of conventional flotation of particle fines, many techniques have recently been developed to deal with the flotation of minerals fines, such as dissolved air flotation, floc-flotation, and nano-bubble flotation. The aim of this issue is to publish recent progress in the flotation of minerals fines to promote better understanding of flotation of particle fines. Research related to interaction between reagent, bubble, and minerals surface, hydrodynamics and interface phenomenon in the flotation of minerals fines is welcome in this issue.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)



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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 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2024).