



Hydrodynamics and Gas Dispersion in Flotation

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Message from the Guest Editors

Hydrodynamics and gas dispersion measurements have been successfully carried out to diagnose the operation and assess the performance of laboratory and industrial flotation units. However, their use for improving metallurgical indexes and machine operations have not been routinely applied in flotation practice.

The aim of this Special Issue is to invite contributions from a group of experts to present the latest results and recent advancements in the following areas:

- Gas dispersion characterization, including bubble size, superficial gas rate and gas holdup measurements, and the interactions between these variables.
- Every relevant topic on the formation and break-up of particle–bubble aggregates, such as single bubble and bubble swarm hydrodynamics, collection efficiencies, and mixing.
- Effects of frothers and inorganic salts on flotation hydrodynamics and gas dispersion.
- Effect of gas dispersion and machine hydrodynamics on metallurgical performances in laboratory and industrial flotation systems.





Editor-in-Chief

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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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