Special Issue

Fine Particle Flotation: Experimental Study and Modelling

Message from the Guest Editors

Froth flotation is the most economical method to separate minerals in ores. However, the complexity of new ore bodies requires fine grinding to liberate valuable minerals, which produces particles with sizes too fine for an efficient mineral flotation and separation... this Special Issue will bring together studies from all areas of fine particle flotation and mineral separation, from fundamental studies on fine particle–bubble interactions (experimental and modeling) in different hydrodynamic conditions, the development of new flotation machines, to the use of more complex mineral systems where mineral separation is the key issue. The hope is that this Special Issue will bring together studies from academic and industry experts, which will contribute to a better understanding of particle–bubble interaction in a complex system and provide solutions to the problem of the low flotation and separation of fine mineral particles in the industry.

Guest Editors

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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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