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Novel Flotation Methods and Applications: Bioflotation and Electroflotation

Guest Editor:

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Deadline for manuscript submissions:
closed (1 July 2020)

Message from the Guest Editor

Dear Colleagues,

Mineral Biotechnology has been playing a new frontier on minerals processing, particularly in flotation science. Many mineral research centres, chemical industries, and academia are looking for new biochemical mixtures for a greener way to promote selectivity between minerals during flotation. The so-called bioreagents and their metabolic products/biosurfactants have been well thought out as new blends of environmentally friendly reagents for flotation. They can act as collectors, depressors, frothers, and flocculants. [...].

This Special Issue will give attention to recent advances in mineral biotechnology and electroflotation. Papers on topics relevant to mineral particles bioflotation, including characterization of bacteria and their EPS, biosurfactants, and their role in flotation, will be mostly welcome. Moreover, subjects related to electroflotation of fine particles will reveal new approaches to mineral flotation science. All subjects, without a shadow of a doubt, play a paramount edge for a sustainable and less impactful way to the environment.

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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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