



Seawater Flotation

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editor

The mining industry plays an irreplaceable role in the development of human beings. Flotation processes, which predominate the collection of minerals in the mining industry, consume a massive amount of freshwater. The use of freshwater in flotation has often been limited by many factors, such as the availability of local freshwater resources, competing water use for the growing world population and other industries, and stringent environmental regulations. Seawater, which occupies 97.5% of water resources on Earth, is therefore a promising alternative water source for mineral flotation. However, various inorganic ions contained in seawater have a significant influence on the mineral flotation process. This Special issue will cover the latest developments in the seawater flotation of minerals. The flotation kinetics and the mechanisms of minerals in seawater flotation systems are different from those in fresh water, limiting the application of seawater in the mining industry. Therefore, fundamental knowledge in terms of flotation reagents, different ions, precipitation and adsorption, surface oxidation, etc. are essential to enable the seawater flotation of minerals.





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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Mining & Mineral Processing*) / CiteScore - Q2 (*Geology*)

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