Special Issue

Flocculation Process of Tailings

Message from the Guest Editor

Water is the key element that enables the various activities involved in mineral processing. The largest mining operations occur in countries with a water shortage, which in some regions is severe. The scenario is complicated, considering that some reservoirs have been exploited for decades, and their grades are currently low, which increases the water demand and favors the generation of tailings. Therefore, the sustainability of the industry urgently requires solutions that maximize the recycling of water from the tailings to the concentrator units, significantly reducing the freshwater footprint in the process. This Special Issue of Minerals aims to summarize cutting-edge research work on tailings flocculation at all scales, from molecules to sites. Advances are welcome on seawater use, raw or desalted, flocculation aided by green chemistry, and filtration and ultra-flocculation operations.

Guest Editor

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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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