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Experimental and Numerical Studies of Mineral Comminution

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

Comminution is the biggest energy-consuming operation in mineral processing. The aim is to liberate locked minerals in order to provide the best conditions for further separation units. If the liberation is not enough, the separation processes will be inefficient.

Experimental studies on mineral comminution are essential in order to understand how mineral breaks and what the particle size distribution of the products will be after this breakage process. In this regard, experimental studies and numerical development take a leading role in defining comminution processes. With this information, industrial comminution may be optimized using particle size distribution sensors and advanced control systems with artificial intelligence. If we want to apply all of these technologies, we have to know the breakage process linked with the parameter process, and experimental and numerical studies allow us to collect these data.

This Special Issue aims to collect new work in this field and to disseminate knowledge around the world in order to advance this area of mineral processing.

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

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