

Special Issue

Fluid Engineering in Mineral Processing

Message from the Guest Editors

Central to mineral processing is the need to perform unit operations that handle or alter fluids or multiphase mixtures. Examples include pulp, concentrate and tailing hydraulic transport systems, mixing and holding tanks, hydrocyclones, mills, flotation cells, thickeners, and tailing storage facilities. This Special Issue intends to present a balanced landscape of frontier research on fluid-related infrastructure, design, and applied rheology relevant to mineral processing systems, including their crossroads with efficient process water and energy use, the interaction between fluids, geo- and surface chemistry, and the impact of clay and ultra-fine minerals on key related processes such as comminution in mills and flocculation, settling and consolidation in thickener-clarifiers, and subsequent tailing disposal. The focus will be on fluids, multiphase mixtures, or suspensions rather than the processes they belong to. Works of experimental, numerical, or conceptual nature are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (23 July 2021)



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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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JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).