Special Issue

Design, Modeling, Optimization and Control of Flotation Process

Message from the Guest Editors

This Special Issue is dedicated to the latest findings on methodologies, applications, and case studies in the field of the flotation to improve process efficiency, reduce energy consumption, and increase the sustainability of these processes. This Special Issue provides a wide range of research and practical topics, including those related to design, simulation and instrumentation, and process control. We welcome reviews, original articles, and multidisciplinary studies including but not limited to the following topics:

- Conceptual or simulation of flotation processes;
- Optimization of flotation processes;
- Novel perspectives in designing flotation circuits, machinery, and the minimization of energy consumption;
- Modification and improvement of flotation circuits;
- Numerical modelling of flotation processes;
- Kinetic models and their scale-up in industrial cells;
- Process control;
- Mechanical, column, and pneumatic flotation cells;
- Impact of operation parameters on designing flotation cells;
- Measurement and modelling of slurry residence time in flotation cell/circuits.

Guest Editors

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Prof. Dr. Luis A. Cisternas

Deadline for manuscript submissions

closed (30 November 2023)

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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