

Special Issue

Modeling, Design and Optimization of Multiphase Systems in Minerals Processing, Volume II

Message from the Guest Editors

After hundreds of years of the exploitation of mining resources, the demand for these resources has continued to increase. The demand will be maintained and increase in the future to face the significant challenges of engineering and society. To meet these challenges, tools are needed to help understand, improve, and facilitate more effective solutions. The use of modeling at all levels and types is undoubtedly one of those tools...The Special Issue welcomes review articles, regular articles, and short notes that cover different methodologies for modeling, design, optimization, and analysis in problems of adsorption, leaching, flotation, and magnetic separation, among others. Tools for the study of multiphase systems at different time and size scales are also welcome such as molecular modeling, computational fluid dynamics, response surface methodology, artificial intelligence, multiscale modeling, uncertainty and global sensitivity analyses, and optimization.

Guest Editors

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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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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).