

Special Issue

Advances in Reagents for Mineral Processing, 2nd Edition

Message from the Guest Editors

Dear Colleagues, Mineral processing is an applied technical subject for the separation of valuable minerals from gangue minerals. Reagents, especially those used for flotation, such as collectors and depressants are always employed to tune the wettability of mineral particle surfaces in this process. Mineral processors usually use collectors to cause a valuable mineral surface to become sufficiently hydrophobic, while depressants cause gangue minerals to become hydrophilic. In recent years, with leaner and more complex ores, there are great challenges to our long-held technological solutions, especially in flotation reagents. In this Special Issue, we aim to discuss the latest developments in reagents for mineral processing. We invite you to contribute to this Special Issue by submitting research articles or comprehensive reviews concerning flotation reagents, including their molecular design and synthesis, quantitative structure–activity relationship, the mineral flotation behavior, the interaction between flotation reagents and mineral surfaces, etc.

Guest Editors

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Prof. Dr. Xingrong Zhang

Deadline for manuscript submissions

closed (30 April 2025)



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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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