

Special Issue

Separation Techniques for Flotation and Recycling in Mineral Processing

Message from the Guest Editors

Froth flotation is a crucial technique in mineral processing. The combination and scheme of flotation reagents such as collectors, frothers, and modifiers can dramatically increase the efficiency of the flotation process, leading to higher recoveries of valuable minerals. Furthermore, column flotation is an advanced mineral processing technique that offers several advantages over conventional flotation.

Resource recycling is a key component of sustainable resource management. The benefits of recycling include resource conservation, energy savings, pollution reduction, and economic advantages. By effectively integrating mineral processing and hydrometallurgy, the efficient and sustainable recycling of valuable materials can be achieved, contributing to a circular economy and resource conservation.

This Special Issue welcomes recent advanced technologies in the areas of theory, mechanisms, process control, chemical reagents, surface characteristics, dynamics, and separation efficiency related to froth flotation, mineral processing, hydrometallurgy, and resource recycling.

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Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

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