



Minerals

an Open Access Journal by MDPI

CiteScore: 4.9

Impact Factor: 2.7

Special Issue Reprint

Surface Chemistry and Reagents in Flotation

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This collection offers an in-depth examination of the surface chemistry and reagent innovations currently driving modern froth flotation. By examining topics ranging from molecular-level collector adsorption to the use of green depressants and frother synergies, these articles demonstrate how interfacial science is being used to tackle the industry's most challenging feeds. The research presented here provides practical strategies for floating complex, low-grade, and critical-mineral ores with greater precision. Our goal is to highlight methods that reduce reagent consumption and ecological impact, thereby providing a technical foundation for a more efficient and circular mining industry capable of meeting global metal demands responsibly.

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