



minerals



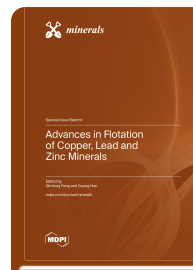
Special Issue Reprint

Advances in Flotation of Copper, Lead and Zinc Minerals

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This Special Issue, “Advances in Flotation of Copper, Lead and Zinc Minerals,” presents recent developments in the flotation of non-ferrous base metals, addressing the key challenges posed by increasingly complex and lower-grade ores. The ten research contributions compiled here span from the molecular-level design of novel flotation reagents—such as selective collectors and depressants—to the understanding of interfacial mechanisms through advanced analytical and computational tools. The topics include the role of metal ions, the effects of pH, reagent synergy, flotation hydrodynamics, and ore-specific process design. The studies also integrate process mineralogy with flowsheet optimization for challenging ore types. This reprint offers valuable insights into sustainable, efficient, and selective flotation strategies for Cu-Pb-Zn systems, reflecting the convergence of fundamental science and industrial applications.



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