

Special Issue

Flotation Chemistry of Oxidized Ore

Message from the Guest Editor

This Special Issue is divided into the following four parts:

Section 1: Physical and chemical properties of ores.

Among them, ore properties mainly include crystal structure properties, surface physical and chemical properties, microstructure properties, and distribution of different minerals.

Section 2: Development of efficient and green flotation reagents. This part mainly studies the binding relationship between the surface of minerals and flotation reagents, including hydrophobicity, selectivity, synergism, ionic action, etc.

Section 3: Flotation process of minerals. The main purpose of this part is to solve practical production problems, including the stage grinding and stage separation process, combined addition sequence of reagents, whole-flow closed-circuit flotation experiment, etc.

Section 4: Equipment development of flotation. This part mainly reports the research and development of mineral processing equipment, involving hydrodynamics, reaction kinetics, multiphase synergy, etc., and equipment including crushing equipment, magnetic separation equipment, mixing equipment, various types of flotation machines and flotation columns.

Guest Editor

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Deadline for manuscript submissions

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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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Prof. Dr. Leonid Dubrovinsky

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).