Special Issue

Advances on Fine Particles and Bubbles Flotation

Message from the Guest Editors

The froth flotation process separates solid particles based on the differences in physical and surface chemistry properties. It is most efficient and cost effective for particles within a narrow size range, nominally from 10 to 100 μm for the minerals. The flotation of fine particles (-10 μm) has become particularly important in recent years as advances have been made in grinding, which allow low grade mineral deposits to be economically exploited. The poor recovery of fines by flotation can be attributed to the low probability of bubble-particle collision, which decreases with the decrease of particle size, and high probability of detachment, respectively... The Special Issue of "Advances on Fine Particles and Bubbles Flotation" welcomes studies including: fine particle flotation, microbubble flotation, nanobubble flotation, particle-bubble interaction, collision and adhesion between particle and bubble, particle–bubble interface science, the aggregation of fine particle and bubble, and the dynamic study of fine particle and bubble flotation systems. We welcome contributions from all practitioners of this scientific topic.

Guest Editors

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Dr. Wei Xiao

Dr. Siyuan Yang

Deadline for manuscript submissions

closed (20 January 2024)

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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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