



Flow of Bubbles and Particles in the Flotation Process

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Message from the Guest Editor

The interaction between bubbles and solid particles is an important mechanism in many industrial processes, and flotation is a significant component of the most commonly utilized applications. The flotation method enables the separation of different solid particles based on their hydrophobicity or hydrophilicity. Today, flotation is used not only for the separation of coal or mineral particles from mined ore deposits, but also for the separation of plastic materials, wastewater treatment, or paper recycling. These aggregates are the result of collisions and consecutive attachment between rising bubbles and suspended particles. Therefore, the rising velocity of the bubbles, the settling velocity of the particles, and their mutual ratio are key factors to expressing the probability of a collision.

This Special Issue, entitled “Flow of Bubbles and Particles in Flotation Process”, welcomes studies focused on bubble and particle flow including single-bubble motion and deformation, fine- and coarse-particle settling, bubble and/or particle behavior in aerated systems, and the probability of bubble–particle collision.





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