Special Issue

Colloids and Interfaces in Mineral Processing

Message from the Guest Editors

This Special Issue is dedicated to the critical roles of colloidal particles and interfaces in optimising mineral processing techniques. It examines key interfacial phenomena and the participation of colloidal particles in critical processes like froth flotation, particle aggregation, adsorption, and dewatering. Achieving improved processing methods and efficient mineral recovery, essential for a low-carbon energy future, depends on a deep understanding of scientific principles, including interactions and interfacial forces among particles, bubbles, and oil droplets. It also involves the dynamics of polymer and surface-active molecule adsorption at solid–liquid and liquid–gas interfaces, as well as fundamental concepts like contact angle, spreading, and wetting/dewetting. The Issue also showcases cutting-edge innovations and emerging technologies. These include novel hydrophobic carriers, such as emulsions and polymers, designed to enhance mineral surface hydrophobicity; environmentally friendly flotation reagents, including biosurfactants, biopolymers, and peptides; and advanced equipment for selective aggregation of fine particles to boost flotation efficiency.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

We would like to introduce you to an emerging and rapidly-developing international open-access journal, *Colloids and Interfaces*, covering all aspects of colloid and interface science. This journal aims to efficiently publish peer-reviewed articles over the internet free of charge to the worldwide community. Original as well as review papers are encouraged. We will also publish Special Issues as proceedings of scientific conferences and workshops as well as those dedicated to particular contemporary themes. On behalf of our distinguished editorial board, we welcome your contributions.

Editor-in-Chief

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