Special Issue

Biosorption and Biomineralization in Metal Removal

Message from the Guest Editor

Biosorption is a process that utilizes biological materials as adsorbents, and this method has been studied by several researchers as an alternative technique to conventional methods for heavy metal removal from wastewater. On the other hand, biomineralization is the process by which living forms influence the precipitation of mineral materials. The process creates heterogeneous accumulations, composites composed of biologic (or organic) and inorganic compounds, with nonhomogeneous distributions that reflect the environment in which they form. Biosorption and biomineralizaton of some metals are often occurred in the metal removal process using microorganisms. This Special Issue aims to publish papers with appropriate examples that confirm the important role of the metal removal by biosorption and biomineralization in several types of metal ions from the aqueous system. Papers providing experimental data to evaluate the metal removal by biosorption and biomineralization are also welcome.

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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