Special Issue

Mineral Surface Reactions at the Nanoscale

Message from the Guest Editor

Mineral surfaces are essential for a large range of important Earth processes. Apart from maintaining life they also control processes such as weathering of rocks and hence soil formation, biomineralization, the fate of contaminants and possible remediation strategies, including element sequestration, and on a larger scale, metamorphism, ore deposit formation and global element cycling. In recent years it has been through the development of advanced analytical methods that mineral surface reactions have been imaged and analyzed at the nanoscale. This has enabled exciting new possibilities for clarifying the mechanisms that govern mineral–fluid reactions. Industrial processes, environmental remediation and nuclear waste disposal methods, medical research and the pharmaceutical industry are all benefitting from the recent advances in understanding mineral surface reactions at the nanoscale.[...]

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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