

Special Issue

Mineral Surface Reactivity with Application to Contaminant Retention and Element Partitioning

Message from the Guest Editors

This Special Issue aims to become a milestone for the reconciliation of experimental and atomistic approaches for mineral reactivity with specific emphasis on retention and element partitioning processes. For this purpose, we seek for high-quality contributions dealing with mineral reactivity characterization at nanoscale and the modelling. The possibility to match measured and predicted properties of the mineral surfaces (towards the sorption of organic and inorganic contaminants and the partitioning of elements) could provide a solid experimental basis for computational methods and improve their reliability during further upscaling required in applied research. Contributions aiming to describe the properties of mineral–mineral, mineral–fluid, and mineral–gas interfaces are welcome to improve the understanding of heterogeneous system and, consequently, to broaden the range of geochemical predictability.

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Deadline for manuscript submissions

closed (20 June 2021)



Minerals

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Impact Factor 2.2
CiteScore 4.4



mdpi.com/si/41810

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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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