



Mineral Surface Reactivity with Application to Contaminant Retention and Element Partitioning

Guest Editors:

Prof. Dr. Sergey Churakov

1. Laboratory for Waste Management, Paul Scherrer Institute, Forschungsstrasse 111, 5232 Villigen PSI, Switzerland
2. Institute of Geology, University of Bern, 3012 Bern, Switzerland

Dr. Fulvio Di Lorenzo

Institute of Geology, University of Bern, 3012 Bern, Switzerland

Deadline for manuscript submissions:

closed (20 June 2021)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Mineralogy*) / CiteScore - Q2 (*Geology*)

Contact Us

Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
[X@Minerals_MDPI/](https://twitter.com/Minerals_MDPI/)