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# Clay Mineral Transformations after Bentonite/Clayrocks and Heater/Water Interactions from Lab and Large-Scale Tests

Guest Editors:	Message from the Guest Editors
Dr. Ana María Fernández	Dear Colleagues,
Dr. Stephan Kaufhold	The Special Issue will focus on geochemical and
Prof. Dr. Markus Olin	mineralogical processes observed from heating/hydration experiments performed at different scales, which may alter
Dr. Lian-Ge Zheng	the structure and properties of bentonites and/or clayrocks used as barriers in the context of deep geological disposal
Dr. Paul Wersin	of nuclear fuels and radioactive waste. Insights related to
Dr. James Wilson	the following aspects will be included in this Special Issue:
Deadline for manuscript submissions: closed (30 June 2021)	<ol> <li>Mineral alteration: dissolution and redistribution of primary mineral phases and precipitation/neoformation of secondary minerals;</li> <li>Physico-chemical properties modification;</li> <li>Redox Chemistry and redox state evolution;</li> <li>Microstructure changes affecting sorption processes;</li> <li>Clayrock- or Bentonite-groundwater interactions;</li> <li>Changes in pore water chemistry;</li> <li>Corrosion and metal/interface processes;</li> <li>Smectite and other clay mineral structural stability;</li> <li>Influence of gases on geochemistry/mineralogy;</li> </ol>

- 10. Organics and their influence on geochemistry/mineralogy;
- 11. Microbial-mediated mineral alteration and geochemical evolution;
- 12. Geochemical modeling, reactive transport and computational quantum mechanical modeling.



mdpi.com/si/50764





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## **Editor-in-Chief**

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#### 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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