Department Applied Geosciences and Geophysics

Chair of Resource Mineralogy



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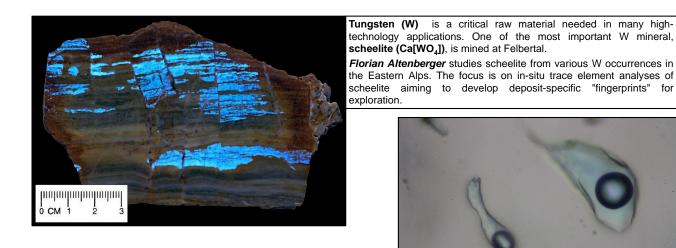
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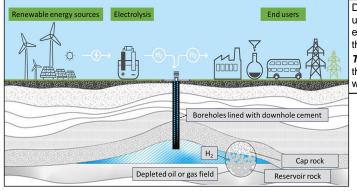
Minerals, rocks and fluids

The fundamental and unifying role of mineralogy at MUL

Research at the Chair of Resource Mineralogy focuses on mineral raw materials, ore deposits and fluids. The topics range from the mineralogical and mineral-chemical characterization of primary and secondary raw materials to the investigation of formation processes of various mineral deposits and experimental studies of fluids in the Earth's crust. Current projects are also dealing with H₂ storage and CO₂ sequestration.



Investigations of fluid inclusions allow to decipher the mineralization history of ore deposits; e.g., in Zn-Pb-Cu-Ag skarn deposits from Rudnik/Serbia. Ronald Bakker has developed a software package for complex fluid systems to calculate fluid properties.

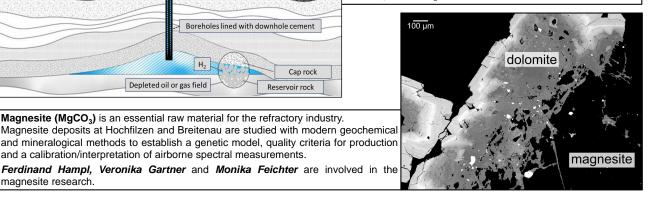


Magnesite (MgCO₃) is an essential raw material for the refractory industry.

and a calibration/interpretation of airborne spectral measurements.

Depleted natural gas or oil fields promise great potential for underground hydrogen (H2) storage. For storing H2 safely and efficiently more research is needed on the interaction of H₂ with the cement material.

Thomas Sammer works on fundamental questions regarding the mechanical and chemical integrity of downhole cements when exposed to H₂.





magnesite research.

Team of the Chair of Resource Mineralogy





