Economic Geology & Planetary Science

Genesis of magmatic, metasomatic and hydrothermal ore deposits

- Development of innovative geochemical exploration tools for a variety of ore deposits.
- Ore genesis in the lower continental crust

Critical Mineral Supply Chain Resilience

- · Forensic geochemistry
- Critical mineral discovery and source diversification

The evolution of terrestrial planets and protoplanets

 Oxygen and sulfur evolution in the deep interiors of planetary bodies and its effect on the composition of atmospheres.

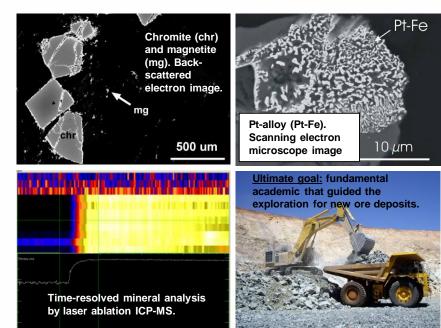
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Linking fundamental geoscientific research to mining industry applications

Keywords

 #Economic Geology, #Mineral Deposits, #Geology, #Geochemistry, #Laser Ablation ICP-MS, #Commodities, #Critical Minerals, #Early Earth, #Planetary Evolution

Recent Funding

NSF, NASA, Doe Run Company

Recognitions

- S&T Academy of Mines & Metallurgy Junior Faculty Award 2019
- NASA postdoctoral fellowship award 2014-2016

