



Advances in the Detection and Analysis of Ore Minerals

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Deadline for manuscript
submissions:

closed (30 November 2021)

Message from the Guest Editors

Dear Colleagues,

The recent advances in modern analytical techniques such as LA-ICPMS, SIMS, and many others have allowed for determining the isotope and trace element composition of sulfides, oxides, and metal alloys with increasing precision. Hydrothermal vents are found in the oceans by using ships and underwater vehicles, whereas satellites and drones are able to detect ore minerals on land using infrared spectrometers. Remote sensing is being employed more and more often in newly emerging concepts such as space mining, with significant efforts being made to prepare instruments suitable for ore prospecting on asteroids, the Moon, and even Mars.

This Special Issue entitled “Advances in the Detection and Analysis of Ore Minerals” invites articles focused on ore prospecting or geochemical analysis of sulfides, oxides, alloys, and native metals. We welcome papers from various fields across geology, petrology, mineralogy, geochemistry, remote sensing, planetary sciences, and engineering.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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