Special Issue

Nature and Genesis of Supergene Deposits in the Regolith

Message from the Guest Editor

Supergene deposits hosted in the regolith have been and continue to be a source of metals for human society, with many metals in supergene deposits being valuable in decarbonizing and high-end technologies. Although supergene deposits have been studied and exploited as metal sources for centuries, the increasing demand for a spectrum of metals from bulk commodities like Al (bauxite) to base metals (Ni, Cu, Zn) to critical metals (REEs, Sc, In) makes characterizing the mineralogy and geochemistry from profile to nanoscale, and understanding the genesis of these deposits, crucial for the future exploration and extraction of their valuable metals. This Special Issue covers, but is not limited to, supergene mineralisation arising from supergene alteration and the enrichment of primary sulphide deposits (Cu), supergene enrichment from non-mineralised rocks (Ni, Al, Co), the variety of REE deposits (clay absorption and laterite) and the enrichment of specific metals such as Au, Ag, Ga, Sc, In, Nb, P in lateritic profiles, as well as modern isotopic perspectives to unravel supergene processes.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2022)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/117608

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About the Journal

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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