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Supergene Evolution of Polymetallic Deposits, including Non-laterite Fe and Mn Ores

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Deadline for manuscript submissions:
closed (26 March 2021)

Message from the Guest Editors

This Special Issue of *Minerals* aims to publish papers dealing with the behavior of several metals as Zn, Pb, Cu, Co, Ag, Fe etc., originally occurring in sulphide ores, when subjected to weathering and oxidation processes. There are several cases when the secondary metal concentrations become of economic importance, as the Zn-Pb "Nonsulphides", the Cu supergene sulphides/oxides/carbonates on top of the world-sized sulphide orebodies (Porphyry Copper and Copperbelt types), and the supergene Co enrichments from primary sulphide ores. Besides these base metals, Fe and Mn also form oxidized ores, due to their high oxidation potential allowed by their trivalent (Fe^{3+}, Mn^{3+}) and tetravalent (Mn^{4+}) forms. Mn and Fe vein-type deposits are widespread in various geological environments, generally forming small-scale deposits. These ores gradually evolve from reducing to oxidizing mineral assemblages, when they encounter higher oxidation levels in the upper crust. This Special Issue of Minerals also aims to refine the formation of several metals in the oxidation zone deposits, in other settings than the most common laterite-type ores.

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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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Journal Rank: JCR - Q2 (*Geochemistry and Geophysics*) / CiteScore - Q2 (*Geology*)

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