



## Graphite Deposits

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### Message from the Guest Editor

Dear Colleagues,

Graphite is a mineral with a quite simple layered structure composed of carbon atoms. In spite of this, it is a very important industrial mineral with a wide variety of applications. Recently, with the increasing demand of plug-in electric vehicles, graphite has been considered by the USA and the European Union a supply-critical mineral because of its role as the main anode component in Li-ion batteries.

Thus, the geological exploration of new graphite occurrences is blooming in the last years. Graphite deposits can result from the metamorphism of carbonaceous matter or by deposition from carbon-bearing fluids or melts. Important differences in host-rock lithology, mineral assemblages, and mineralization processes exist between both types of graphite deposits. In addition, the characteristics of graphite determine the specific industrial application and this is dependent upon the type of deposit.

Graphite deposits also must be considered in relation to the long-term geodynamic carbon cycle which involves exchanges between surficial reservoirs and the mantle. Thus, carbon from subducted carbonaceous matter and carbonates can be incorporated into mantle-derived magmas and eventually re-deposited as graphite.

This Special Issue invites authors to submit papers on geological, mineralogical and geochemical case studies of graphite deposits.

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*Guest Editor*





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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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