Special Issue

Mineral Deposits of Critical Elements

Message from the Guest Editor

The strategic and economic interests in some critical elements have drastically increased in the last few years. However, these growing interests have been often decoupled from the enhancement of our understanding of the associated mineral deposits. For many years, what are meant nowadays strategic commodities had been considered mineralogical oddities and less-than-desirable published information exists about the mechanisms of concentration of these elements in nature. Most potential ore minerals are unfamiliar to most geologists, the mineralogy of some important deposits is not well characterized, and even some phases are not established as mineral species yet. A better understanding of the mechanisms of concentration of critical elements and their mineralogical expression will favour their exploration and the development of improved mineral processing schemes. Therefore, the aim of this Special Issue is to provide a contribution to the state of the art of the ore deposits hosting critical elements, mainly from a mineralogical point of view.

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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