



High-Tech Critical Metals: Evaluation and Deposit Models

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Message from the Guest Editor

Dear Colleagues,

Our society is dramatically changing to improve daily life, with minimizing the impacts on environment, so that it is more comfortable and convenient. It is exemplified by the fact that many countries are aiming to rapidly replace gasoline and diesel vehicles with electric ones, and this causes new demands for minor metals/minerals, such as rare earths, cobalt, lithium, graphite, etc. However, resource potentials/reserves, geological deposit models, and the extraction technology of these metals and minerals have not been well investigated, and the mining sectors have to struggle to supply these materials. Although the distribution of such critical metals and minerals is highly heterogeneous around the world, and their production is commonly limited to a few places, enormous mineral potentials remain in green fields where they have not been well explored. In this Special Issue, we would like to invite papers that deal with geological models and case studies of critical metals/minerals ore deposits to provide insights for metallurgists, developers and material users.

Prof. Yasushi Watanabe

Guest Editor





Editor-in-Chief

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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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