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Arctic Mineral Resources: Science and Technology

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Deadline for manuscript submissions:
closed (1 January 2019)

Message from the Guest Editor

Dear Colleagues,

The Arctic zone of the Earth is a major source of mineral resources for the future development of science and technology. It contains a large supply of strategic mineral deposits, including rare earths, copper, phosphorus, niobium, platinum-group elements, and other critical metals. The continuing melting of the sea ice due to the climate change makes these resources more accessible than in the past. However, the mineral exploration in the Arctic has always been a challenge, due to the climatic restrictions, remote location and vulnerability of Arctic ecosystems. This Special Issue will cover a broad range of topics related to the problem of Arctic mineral resources, including geological, geochemical and mineralogical aspects of their occurrence and formation, chemical technologies, environmental and economic problems of mineral exploration. We invite contributions dealing with various issues associated with mineralogical, geochemical and environmental problems of mineral exploration in the Arctic, chemical technologies, economical, historical and political aspects of the role of Arctic mineral resources in the future industrial and technological development.

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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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