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Kola Alkaline Province: Ores, Rocks and Minerals—In Memory of Dr. Gregory Yu. Ivanyuk

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Message from the Guest Editor

Dear Colleagues,

The Kola Alkaline Province contains the world's largest peralkaline and alkaline-ultrabasic massifs (Khibiny, Lovozero, Kovdor, Tury Mys, etc.), with giant deposits of strategic and critical metals, including Fe, Ti, Nb, Ta, Zr, Al, Na, K, Sc, REE, and P. Aspects of their genesis include plumes, magmatic reservoirs, magmatic and post-magmatic differentiation, geochemistry of incompatible elements, subsolidus events, plication and fault tectonics, accumulation and emission of hydrogen and hydrocarbon gases, etc. In addition, the Kola Alkaline Province is the world's largest source of new mineral species (above 300) and natural prototypes of important functional materials (ETS-4, AM-4, IE-911, SIV, etc.), which makes it a source of important information on the crystal chemistry and conditions of synthesis of new mineral-like compounds. This Special Issue will cover a wide range of topics related to the problems of geology, tectonics, petrology, geochemistry, mineralogy, and crystal chemistry of the Kola alkaline complexes, as well as technological problems of deep ore processing.

Dr. Gregory Yu. Ivanyuk
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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