Special Issue

Tectonic–Magmatic Evolution and Mineralization Effect in the Southern Central Asian Orogenic Belt

Message from the Guest Editors

The Central Asian Orogenic Belt (CAOB) is the result of long-lived multi-stage tectonic evolution, including Proterozoic to Paleozoic accretion and collision, Mesozoic intracontinental modification, and Cenozoic rapid deformation and uplift. The accretionary and collisional orogenesis of its early history generated a huge orogenic collage consisting of diverse tectonic units including island arcs, ophiolites, accretionary prisms, seamounts, and so on. These incorporated orogenic components preserved valuable detailed information on orogenic process and continental crust growth, which make the CAOB a key region for the understanding of continental evolution, mantle–crust interaction, and associated mineralization. This Special Issue focuses on new data and study advances on tectonic evolution and the mineralization effect of the south domain of the CAOB, including the Kazakhstan–West Junggar orocline system, Altai–East Junggar orogenic belt, Tianshan orogenic belt, Beishan orogenic belt, Xing–Meng orogenic belt, and northern North China Craton. We invite original research papers, reviews, and other contributions that are relevant to this issue.

Guest Editors

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Dr. Nan Ju

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Deadline for manuscript submissions

closed (1 June 2024)

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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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