Special Issue

Geochronology and Geochemistry of Alkaline Rocks

Message from the Guest Editors

Alkaline rocks are the products of lithospheric extensional environments. They have become a valuable indicator of deep geodynamics processes, such as collisional orogeny, oceanic subduction, delamination, lithospheric thinning, basaltic magma subduction, upper-crust deep faults, mantle plume, and crust–mantle interactions. Although alkaline rocks have been studied over the years, many scientific problems require further study. There is, for example, still a lack of systematic discrimination and understanding on the origin and evolution of alkaline magmas, or the genesis and diagenetic dynamic setting of alkaline rocks. A further topic of considerable current global interest is the metallogeny of alkaline rocks, given they may host deposits of rare earth elements, niobium, vanadium, uranium–thorium, copper, and gold, as well as valuable non-metals (for example, apatite, ceramic materials, and diamond). In view of the scientific significance of alkaline rocks and the existing problems listed above, our Special Issue will be devoted to studies dealing with the geochronology and geochemistry of alkaline rocks in different geological environments.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2025)

Minerals

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Impact Factor 2.2
CiteScore 4.4

mdpi.com/si/213391

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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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