Special Issue

Large Igneous Provinces, Carbonatites, Kimberlites, and Associated Ore Deposits of Africa

Message from the Guest Editors

This Special Issue provides a comprehensive analysis of large igneous provinces (LIPs), carbonatites, kimberlites, and their associated ore deposits in Africa. It integrates geological, geochemical, and tectonic insights to explore the processes controlling magmatism and mineralization across the African continent. Key themes covered in this issue:

- **Geodynamic Context**: Investigations into the tectonic and mantle processes that led to the emplacement of LIPs and carbonatites.
- **Petrology and Geochemistry**: Studies analyzing the mineralogical, geochemical, and isotopic characteristics of these igneous formations, shedding light on their origins and evolution.
- **Economic Significance**: Insights into the distribution and genesis of valuable ore deposits, including rare earth elements (REEs), niobium, phosphates, and other critical minerals associated with carbonatites and LIPs.
- **Geochronology**: Applications of dating techniques to establish the temporal framework of magmatism and its link to broader geodynamic events.
- **Exploration and Resource Potential**: Discussions of modern exploration strategies and the economic viability of mining these deposits in Africa.

Guest Editors

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About the Journal

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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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