Special Issue

Geological Evolution of South American Cratons

Message from the Guest Editors

South America is made up of large extents of Archean to Paleoproterozoic crustal terrains which are recognized to be some of the largest cratons on Earth, such as the Amazon and São Francisco cratons. Other small cratonic nuclei also exist, such as the São Luis and Luis Alves cratons, but their study is still in its infancy. The long-lasting geological evolution of these cratons, which spanned most of the Archean and Proterozoic eons, offers the opportunity to document processes that operated on the early Earth, including mantle and crustal evolution, the formation and stabilization of these cratonic areas, their evolution through time, and the co-evolution between the deep Earth and the surface. In this Special Issue, we welcome contributions dealing with the geological evolution of the different cratons exposed in South America. We encourage submissions that showcase multi-disciplinary approaches including, but not limited to, field studies and geochemical and geophysical studies in order to better constrain the geodynamic evolution of these cratonic areas.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)

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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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