Special Issue

Provenance Analysis of Clastics Applied to Sedimentary Geology and Petrology

Message from the Guest Editors

Provenance studies have benefited from new emergent techniques, which have promoted significant advances in recent years in the understanding of signal propagation in sediment routing systems. Classic methods, such as sedimentary petrography, heavy mineral analysis, or geochemistry analyses, have been successfully complemented with new tools, mainly concerning geo- and thermochronology dating of a wide range of minerals. Coupled with well-established methods, these recent advances are crucial to disentangle the processes involved in a source to sink system: from chemical and physical weathering of the source rock lithologies in catchment areas, to diagenetic modifications in the ultimate sink, which are in turn potentially affected by climate and tectonics within a dynamic environment. This Special Issue invites works focusing on recent advances in provenance studies, including new techniques, multidisciplinary approaches, and, of particular interest, the analysis of signal propagation within source to sink systems. Case studies with a particular interest are also welcome.

Guest Editors

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Deadline for manuscript submissions

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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.

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