Special Issue

Sand(stone)s Quantitative Provenance Analysis

Message from the Guest Editors

A basic quantitative element of sand-sized sediments and sedimentary rocks is composition, and the parent lithologies of eroded orogenic systems rest on the petrographic analysis of terrigenous sediments' detrital modes. In fact, the development of sand(stone) petrology has provided evidence for interpreting tectonic setting models, insights into (paleo)climatic conditions of the source areas, (paleo)current patterns, facies relationships of stratigraphic units, and the overall clastic unit volumes of the basins' fill.

This Special Issue invites contributions that are concerned with the petrography of modern sand-sized sediments and ancient sandstones of the Earth record. Since sand and sandstones comprise a wide mixture of source grains, their quantitative provenance analysis is often best tackled using petrographic microscopy. Moreover, the use of sand grain petrography as a tool within the Earth sciences is also expanding. Most of these studies demonstrated that the petrographic analysis of sand grains, determined accurately with a standard petrographic microscope, assisted in the location of their possible geographical source area.

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

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