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.

Guest Editors

Dr. Emilia Le Pera

Associate Professor, Department of Biology, Ecology and Earth Sciences (DiBEST), University of Calabria, 87036 Arcavacata di Rende, Italy

Dr. Consuele Morrone

Department of Biology, Ecology and Earth Sciences, University of Calabria, Rende, Italy

Deadline for manuscript submissions

closed (28 February 2021)

Geosciences

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 5.1

mdpi.com/si/43947

Geosciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
geosciences@mdpi.com

mdpi.com/journal/geosciences

Geosciences

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 5.1

mdpi.com/journal/geosciences

About the Journal

Message from the Editor-in-Chief

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 scientifically based 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

Prof. Dr. Alberto G. Fairén
1. Centro de Astrobiología, CSIC-INTA, Madrid, Spain
2. Department of Astronomy, Cornell University, Ithaca, NY, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q1 (General Earth and Planetary Sciences)