



Evolution of Crustal-Scale Shear-Zones

Guest Editors:

Prof. Dr. Carmelo Monaco

Department of Biological,
Geological and Environmental
Sciences, University of Catania,
Corso Italia, 57, 95129 Catania,
CT, Italy

Dr. Gaetano Ortolano

Department of Biological,
Geological and Environmental
Sciences, University of Catania,
Corso Italia, 57, 95129 Catania
CT, Italy

Prof. Dr. Ian Alsop

Department of Geology and
Geophysics, School of
Geosciences, University of
Aberdeen, Aberdeen AB24 3FX,
UK

Deadline for manuscript
submissions:

closed (15 May 2021)

Message from the Guest Editors

Dear Colleagues,

It is our pleasure to announce that we have agreed to assemble a Special Issue focussing on the evolution of crustal-scale shear zones (CSSZs). CSSZs often exhibit a complex variety of fault-rocks and related structures that record changes in deformation mechanisms during progressive deformation, and/or deformation during exhumation. CSSZs and the structures associated with them play a crucial role in the development of orogenic belts.

In this Special Issue, we would like to encourage the submission of scientific papers focussing on the study of plastic- and/or brittle-related crustal-scale shear-zones, with particular reference to those characterised by a transition from plastic- to frictional-deformation behaviour. Multiscale structural investigation, supported by the analysis of physical conditions during deformation, represents a fundamental tool to unravel the geodynamic evolution of many ancient and currently active plate boundaries where significant amounts of deformation have accumulated.





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

Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set 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.

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 - Q2 (General Earth and Planetary Sciences)

Contact Us

Geosciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/geosciences
geosciences@mdpi.com
[X@Geosciences_OA](#)