Special Issue

Seismic Vulnerability and Strengthening of Unreinforced Masonry Buildings

Message from the Guest Editors

Historical structures represent a high percentage of existing constructions in numerous seismic prone regions, and some of them are iconic monuments of their countries. These structures deserve special care because of their individual historical and/or architectural meaning and are living witnesses of earlier constructive traditions. Most of the existing European historical structures are made of masonry. Earthquakes often cause either massive damage or destruction of these structures, whose seismic behavior evaluation is a challenge for scientific research.

The seismic vulnerability assessment of such structures depends on reliable numerical simulations. Numerical modeling of the seismic behavior of masonry structures represents a very complex problem due to the constitutive laws of structural materials and their highly non-linear behavior. Starting from these premises, the target of this Special Issue is to outline materials and techniques used from ancient times to design masonry buildings, as well as to investigate the different procedures and numerical modeling methods for structural analysis of historical constructions and monuments in seismic prone areas.

Guest Editors

Prof. Dr. Antonio Formisano

Prof. Dr. Luigi Sorrentino

Dr. Maria Zucconi

Deadline for manuscript submissions

closed (15 June 2021)



Geosciences

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 5.1



mdpi.com/si/56349

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



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 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

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)

