Special Issue

Advancements in Post-Earthquake Landslide Deformation Studies: Mechanisms, Monitoring, and Mitigation

Message from the Guest Editors

Earthquake-induced landslides represent some of the most destructive geological hazards. These landslides can be categorized as co-seismic—triggered during the earthquake sequence—or post-seismic—resulting from the legacy effects of the seismic event. Their occurrence, spatial extent, and magnitude are closely linked to the characteristics of the seismic source, particularly its magnitude. Notably, some of these landslides remain active for years after the co-seismic trigger, while others may develop shortly after the earthquake as either rapid- or slow-mass movements. Effective monitoring (field photography, unmanned aerial vehicles (UAVs), LiDAR surveys, satellite imagery and interferometric synthetic aperture radar (InSAR)) is essential for understanding landslide mechanisms and for implementing mitigation strategies. This Special Issue welcomes original research articles and comprehensive reviews that address recent advances in monitoring techniques and case studies of both co-seismic and post-seismic landslides, whether rapid- or slow-moving.

Guest Editors

Prof. Dr. Ioannis Koukouvelas
Department of Geology, University of Patras, 265 04 Patras, Greece

Dr. Nicola Angelo Famiglietti
Sezione Irpinia, Istituto Nazionale di Geofisica e Vulcanologia (INGV), 83035 Grottaminarda, AV, Italy

Deadline for manuscript submissions

30 November 2025

Geosciences

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 5.1

mdpi.com/si/241566

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 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

Prof. Dr. John C. Eichelberger
Alaska Center for Energy and Power, University of Alaska Fairbanks, Fairbanks, AK, 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)