

Special Issue

Innovative Strategies for the Sustainable Strengthening of Existing Buildings

Message from the Guest Editors

In the last few decades, significant developments have been made to improve the structural performance of existing buildings against different hazards (earthquakes, volcanoes, landslides, floods, wind, blasts) using traditional and innovative strengthening/retrofitting systems. The sustainability of such systems needs to be tackled in many challenging aspects, such as material compatibility, reversibility and durability of the intervention, reduction of cost, time, and greenhouse gas (GHG) emissions, and energy optimization. This Special Issue focuses on advanced strengthening/retrofitting techniques, even integrated with solutions for energy saving or for the reduction of environmental impacts, and on recent developments in experimental and numerical investigation methods for strengthened/retrofitted constructions, with reference to masonry, reinforced concrete, and timber structures. Original research articles and literature reviews are welcome. Research areas may include (but are not limited to) the following issues:

Guest Editors

Prof. Dr. Claudia Casapulla

Department of Structures for Engineering and Architecture, University of Napoli Federico II, Via Forno Vecchio, 36, 80134 Napoli, Italy

Dr. Linda Giresini

Department of Energy, Systems, Territory and Constructions Engineering, University of Pisa, 56126 Pisa, Italy

Deadline for manuscript submissions

closed (31 August 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/86704

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)