

Special Issue

Sustainable Seismic Design, Assessment and Retrofit of Buildings

Message from the Guest Editors

This Special Issue focuses on design and retrofit strategies that are synergistically combined with energy-efficiency measures, with the overarching goal of reducing the environmental impact of buildings while enhancing their safety, resilience, long-term performance and living comfort. The Special Issue explores integrated methodologies that couple seismic design and retrofit with energy upgrading, life-cycle thinking, and loss mitigation. Particular attention is given to solutions that reduce expected losses, downtime, and the environmental footprint associated with damage and post-disaster reconstruction. By addressing both operational and embodied impacts, these approaches contribute to a more sustainable and resilient built environment capable of withstanding natural hazards.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- integrated seismic and energy retrofit
- performance-based seismic design
- energy-efficient buildings seismic risk
- sustainable design
- life-cycle assessment (LCA)
- low-carbon retrofit solutions

Guest Editors

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Deadline for manuscript submissions

28 February 2027



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/271269

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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

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