

Special Issue

Advanced Seismic Isolation and Resilient Structural Technologies

Message from the Guest Editors

The global construction sector is increasingly prioritizing resilience and safety, spurred on by the escalating frequency of seismic events, evolving environmental conditions, and the demand for durable infrastructure. Breakthroughs in seismic isolation technologies and structural resilience are pivotal to this shift, providing innovative solutions to enhance earthquake resistance, optimize structural performance, and extend service life under extreme conditions. This domain integrates advanced materials, innovative design methodologies, and cutting-edge digital tools to create adaptive and robust built environments. In this light, this Special Issue seeks to highlight the latest advancements in seismic isolation systems, vibration control technologies, and resilient structural designs that bolster infrastructure sustainability and safety. We invite submissions that investigate novel isolation materials, performance optimization under multi-hazard scenarios, modular and prefabricated construction techniques, and digital tools such as finite element analysis and machine learning for seismic design and assessment.

Guest Editors

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Deadline for manuscript submissions

closed (20 January 2026)



Infrastructures

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CiteScore 6.0



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