Special Issue

Properties and Applications of Sustainable Construction Materials

Message from the Guest Editors

With the increasing frequency of earthquakes, such as those in Turkey and Morocco in 2023, the need for resilient building structures has become critical. These events underscore the importance of using sustainable construction materials to enhance seismic resilience. By using sustainable, high-performance materials, including recycled aggregates, we can improve structural durability, reduce costs, and effectively manage construction waste. This call for papers invites contributions on innovative materials, technologies, and techniques for seismic retrofitting. We seek to showcase research and case studies focusing on the application of green materials and recycled aggregates, novel reinforcement methods, seismic performance evaluations after reinforcement, and advanced design theories. The goal is to advance the field of sustainable construction materials by sharing insights and developments that can lead to safer, more resilient buildings. We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2026)

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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