Special Issue

To Improve Urban Resilience: Cleaner Materials and Technologies towards Sustainable and Green Construction of Buildings

Message from the Guest Editors

This Special Issue will address advances in cleaner production, cleaner and responsible consumption, cleaner engineering and technology, and cleaner materials. In this context, this Special Issue was conceived to pose important questions for authors to address in their studies:

- How can we help to realize the aim of carbon neutrality?
- What can we do to make the infrastructures more sustainable?
- How can we help to improve the urban resilience?

In relation to these wide-ranging issues, the potential subjects for this Special Issue include (but are not limited to):

- Green construction materials;
- Sustainable infrastructures;
- Novel approaches to improve the urban resilience;
- Case studies of sustainable constructions;
- Lifecycle analysis of sustainable structures;
- Development of resilient construction.

Guest Editors

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).