Special Issue

Transforming Waste into Resources: Circular Approaches to Building Restoration

Message from the Guest Editors

This Special Issue, "Transforming Waste into Resources: Circular Approaches to Building Restoration", aims to explore the potential of circular economy principles in revolutionizing building restoration practices. This issue invites research articles, case studies, and reviews that focus on the transformation of waste materials into valuable resources within the context of building restoration. Topics of interest include, but are not limited to, the following:

- Reuse and recycling of construction and demolition waste;
- Innovative materials derived from waste products;
- Circular design principles in building restoration;
- Economic and environmental impacts of circular restoration approaches;
- Policy frameworks supporting circular building practices;
- Technological advancements facilitating waste-to-resource conversion;
- LCA studies of buildings and building components with circular approaches;
- Social and economic impacts of circular renovation;
- Digital tools and data management for material reuse and circularity;
- Collaboration and supply chain management for circular renovation.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2025)

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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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