

## Special Issue

# Advances in Deconstruction and the Sustainable Management of Construction Waste: Towards a Circular Economy

### Message from the Guest Editors

The construction industry encompasses construction, renovation, and demolition (CRD) activities, which are energy-intensive and the most significant contributors to waste on a global scale. As a result of New Zealand (NZ)'s prolonged urbanisation and population growth, investments in construction works are significant, amounting to NZD 7.2 billion in 2021. CRD waste is prolific and unlikely to reduce soon. Currently, construction waste generation is estimated to be 943.5 kg/capita; therefore, how we presently manage design, construction, and operations of our buildings and infrastructure systems is far from sustainable. This issue welcomes articles that enable the transformation of the construction industry, focusing on the development and validation of novel waste management tools and processes, sustainable design, deconstruction techniques and the use of innovative materials and inclusion of carbon reporting, in support of the whole lifecycle of sustainable buildings and infrastructure systems from design to construction and operations. For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/buildings/special\\_issues/HH837086H7](https://www.mdpi.com/journal/buildings/special_issues/HH837086H7)

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### Guest Editors

Dr. Terri-Ann Berry

Dr. Kim L. de Graaf

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### Deadline for manuscript submissions

30 September 2026



## Buildings

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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.

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### Editor-in-Chief

Prof. Dr. David Arditi

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indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

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JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).