Special Issue

A Circular Economy Paradigm for Construction Waste Management

Message from the Guest Editors

In this Special Issue, we are looking for innovative research on advancing a circular economy paradigm for construction waste management (CWM), involving various life-cycle stages, such as design, construction, transportation, renovation and maintenance, demolition, recycling and disposal. We invite the submission of works on innovative theories and practices for integrating a circular economy paradigm into CWM to this Special Issue. Some potential topics may include, but are not limited to, innovative design strategies for CWM, life-cycle assessments of environmental and economic implications for CWM, barriers and challenges to CWM in different contexts, decarbonization through CWM, low-waste construction technologies, and innovative business models of CWM enterprises. High-quality research papers and original review papers are equally welcome. Through this Special Issue, we aim to deepen understandings and provide insight for academics and industry practitioners on how to better integrate a circular economy paradigm into CWM. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/VJ0Y77YU10

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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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