



Sustainable Development: Recycling and Reuse of Waste Materials in the Construction Industry—2nd Edition

Guest Editor:

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Message from the Guest Editor

Lots of construction and demolition wastes (C&DW) are generated yearly with the rapid development of the construction industry. To date, only a small proportion of C&DW is reused and recycled in the construction industry. Components of C&DW typically include concrete, wood, gypsum, asphalt, bricks, and other waste materials such as excavated soil and engineering slurry. A larger part of these waste materials could be recycled into the construction industry to decrease the amount of wastes which have to be disposed in landfill, and thus to preserve natural resources. Meanwhile, structurally useful elements could also be reused for the production of new building elements.

This Special Issue aims to present the latest achievements in the field of valorization of waste materials in the construction industry to decrease their environmental impacts. Special focus will be placed on the latest original scientific research and industrial applications. I invite you to submit interesting and especially interdisciplinary articles.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/GB853T





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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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