Special Issue

Advances in Sustainable Building Material Engineering

Message from the Guest Editor

Over the past seven decades, we have witnessed amazing advances, not just technological progress, but also human progress. Sustainable construction is a construction that meets the requirements of sustainable development and can be defined as a pursuit to ensure economic development and social health while reducing the negative impact of construction on the environment. Sustainable development is one of the leading civilization ideas, but also a necessity for civilization development, i.e., development that meets current needs without limiting the needs of future generations. Everything is from something, and every structure is from construction materials. The construction industry consumes more than 40% of produced energy, about 50% of the mass of materials, and the building industry emits 35% of greenhouse gases. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/Building_Material

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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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