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Recent Scientific Developments in Sustainable Building Materials and Structures

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Message from the Guest Editors

Carbon emissions from the building and construction sector are a growing environmental problem. Sustainable building materials have been paid more and more attention by scientists and engineers because of their advantages of energy saving, pollution reduction, and resource conservation.

This Special Issue brings together recent scientific developments in sustainable building materials, in order to examine, explore, and critically engage with issues and advances in sustainable building materials that can both provide several environmental benefits and create cost-effective products. The papers collected in this Special Issue can help researchers, engineers, and scientists to find more advanced techniques and alternative approaches towards sustainable building material development.

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

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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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