Special Issue

Advances in Sustainable Building Materials: 2nd Edition

Message from the Guest Editors

The sustainability of building materials is key to reducing the construction sector's environmental impact, promoting resource efficiency, and improving people's quality of life. This sector continues to be among those with the greatest negative environmental impact, due to its excessive use of non-renewable natural resources, the high energy consumption involved, and the high production of waste. Continuous innovation and the adoption of sustainable practices in the construction sector are crucial to attaining global sustainability goals and combating climate change. The sustainability of building materials is critical to creating healthier, more eco-efficient, and economically viable buildings, while also leading to energy savings. This second edition of the Special Issue on "Advances in Sustainable Building Materials", following the success of the first edition, will continue to gather and present the latest advances in scientific research on the development of more sustainable construction materials, contributing to greater sustainability in the construction sector.

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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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