Special Issue

Advances in Sustainable Building Materials

Message from the Guest Editors

Civil construction continues to be one of the sectors with the greatest negative impact on the environment due to the excessive use of natural resources, high energy consumption and the high production of waste. With ongoing climate change, the reduction of natural resources and the need to rely on renewable energy sources, the pressure on the construction sector to utilize more responsible techniques and methods has become a reality. The current major focus is on sustainable construction, in particular on the various aspects of the design, construction, maintenance and dismantling of buildings. The market for sustainable materials for civil construction is growing and one of the major challenges of current research is the development of more sustainable building materials. This Special Issue, dedicated to the theme “Advances in Sustainable Building Materials”, seeks to bring together and present the latest advances in scientific research in the area of developing more sustainable building materials that can contribute to greater sustainability in the construction sector, thus ending the pattern of unsustainable buildings.

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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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