Special Issue

Trends and Prospects in Sustainable Green Building Materials

Message from the Guest Editors

The use of sustainable technologies in building materials plays a crucial role in addressing environmental and economic challenges. The impact of using such materials encompasses not only the operational characteristics of building materials but also offers solutions for energy efficiency, reducing carbon footprint, conserving resources, and managing waste disposal. For this Special Issue, topics of interest include (but are not limited to) the following:

- The development and applications of sustainable green building materials;
- Properties for the improvement of sustainable green building materials;
- The utilization of various wastes in the development of green building materials;
- The durability of sustainable green building materials;
- Production technologies of sustainable, eco-friendly building materials;
- The role of sustainable green building materials in architecture;
- Materials that have been reused, recovered, or recycled.
- Sustainable, eco-friendly building materials;
- Economic aspects of sustainable building materials, examining their cost-effectiveness, market availability, and scalability;
- Materials to sustain a circular economy and built environment.

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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.

Editor-in-Chief

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