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Advanced Sustainable Low-Carbon Building Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2024)

Message from the Guest Editor

Building construction and operations are responsible for a significant portion of global greenhouse-gas emissions. As the world grapples with the challenge of climate change, it is essential to develop and adopt advanced sustainable low-carbon building materials. Such materials have the potential to reduce the carbon footprint of buildings and mitigate the environmental impact of the construction sector. Advanced sustainable low-carbon building materials are those that are manufactured with minimal carbon emissions, are highly energy efficient, and have a long service life. These materials have numerous benefits, including lower greenhouse-gas emissions, improved energy efficiency, reduced waste, and lower costs over their lifetime. This Special Issue is of great importance for environmentally friendly development in the construction industry, and I strongly look forward to receiving various research papers.

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

https://www.mdpi.com/journal/buildings/special_issues/4DXCB3W8MN

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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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