



Application of Environment-Friendly Materials in Civil Engineering

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Deadline for manuscript
submissions:

28 February 2025

Message from the Guest Editors

In the process of civil engineering construction, the government have been paying attention to carbon emissions, traffic noise and environmental. Low-carbon materials, environment-friendly materials and the near-zero carbon utilization of solid wastes have been studied by researchers and applied in civil engineering construction. This Special Issue, titled "Application of Environment-friendly Materials in Civil Engineering", aims to bring together researchers, experts, and practitioners to discuss the latest research findings on the design, mechanical properties, durability, microstructure, and environmental impact of materials used in civil engineering construction.

The Special Issue will cover, but is not limited to, the following:

- Low-carbon utilization of solid wastes;
- Warm mix asphalt technology;
- Reclaimed asphalt pavement;
- High performance asphalt;
- High performance concrete;
- New type sound barrier;
- Micromechanical analysis of asphalt mixtures;
- Finite element analysis of pavement and bridge structure.

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

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

38F623G6JG



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Special Issue



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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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