



Advances in Building Materials and Methods

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Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editors

The development of civil engineering over the last century has always required the improvement of building materials and methods. Innovative building materials and methods are often presented as a magic potion in meeting the ever-increasing demand in terms of performance, sustainability, durability, and cost.

For this Special Issue, authors are kindly invited to submit high-quality papers on the following topics, including but not limited to:

- Innovative building materials, circular economy and cement manufacturing;
- Hydration, rheology, admixtures, and durability;
- Ordinary Portland cement, low carbon binders, aluminosilicates, calcium aluminates, and calcium sulfoaluminates;
- Secondary raw materials such as (but not limited to) recycled aggregates and sediments;
- Carbonation, additive manufacturing, construction automation, and digitization in construction.





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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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