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High-performance Construction Materials: Latest Advances and Prospects

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Deadline for manuscript submissions:
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Message from the Guest Editors

This Special Issue "High-Performance Construction Materials: Latest Advances and Prospects", aims to reflect the current state-of-the-art and new developments in all topics relevant to high-performance construction materials. The topics to be considered in this Special Issue include, but are not limited to, the following:

- Fiber-reinforced cementitious composites
- Self-healing cementitious materials
- Innovative building materials
- Low energy consuming building materials
- Use of recycled materials, including recycled concrete
- Use of waste materials and industrial byproducts in concrete
- Use of nanoadditions in buildings
- Durability studies
- Mechanical properties
- New trends in the design of sustainable engineering materials
- New experimental techniques

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

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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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