

Special Issue

High-performance Construction Materials: Latest Advances and Prospects

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:

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

Guest Editors

Dr. Shengwen Tang

School of Water Resources and Hydropower Engineering, Wuhan University, Wuhan 430072, China

Prof. Dr. Lei Wang

College of Materials Science and Engineering, Xi'an University of Architecture and Technology, Xi'an 710055, China

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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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

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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