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Research on Properties and Usage of Construction Composite Materials

Guest Editors:

Prof. Dr. Chunguang Wang
School of Civil Engineering and Geomatics, Shandong University of Technology, Zibo 255000, China

Dr. Tian Su
School of Civil Engineering and Geomatics, Shandong University of Technology, Zibo 255000, China

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Message from the Guest Editors

In recent years, the construction industry has paid increasing attention to the search for new material solutions that will improve the performance of materials and structures. Compared to conventional construction materials, composite materials have many advantages, and thereby are increasingly adopted in construction, offshore engineering, transportation, and many other areas.

The aim of this Special Issue is to gather research articles, case studies, and review papers on the advances in construction composite materials. The topics of interest include, but are not limited to, the following:

- Nanostructured materials and nanocomposites
- The performance of FRP composite structures
- Concrete and cementitious composite material
- Durability and sustainability assessment of construction composite materials
- Sustainable development of construction composite materials
- Application of steel, carbon, and polymeric fibers in concrete
- Manufacturing technology of composite materials
- Smart composite materials
- Innovative applications of composite materials

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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

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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Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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