Special Issue

Sustainable Concrete Construction: Methods and Practices

Message from the Guest Editors

Concrete is the most widely used construction material in the world. Global production will continue to rise over the coming years, particularly as some estimate a near doubling of built floor area between now and mid-century. Vast quantities of concrete will be consumed in this urban development, as concrete is used to construct these buildings, as well as the urban infrastructure that surrounds them. New and sustainable methods of concrete production and building construction using concrete are required. This Special Issue will highlight research into sustainable concrete construction from material innovations to novel design solutions. [...] For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/
Concrete_Construction

Guest Editors

Dr. Oliver Kinnane
School of Architecture, Planning and Environmental Policy, College of Engineering and Architecture, University College Dublin, Dublin, Ireland
Dr. Richard O'Hegarty
School of Architecture, Planning and Environmental Policy, College of Engineering and Architecture, University College Dublin, Ireland

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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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