Special Issue

Studies on the Characterization and Technology of Construction Materials

Message from the Guest Editors

The construction industry is undergoing a tremendous transformation in order to provide resilient, sustainable housing. Research on construction materials is at the forefront of this transformation, given the significance of reducing carbon footprints, improving durability, and assuring occupant comfort. With high-quality contributions, this Special Issue aims to showcase current advances in the field of construction and building materials. Thanks to multi-physics and multi-scale strategies, this will allow us to enhance existing literature and achieve an expanded knowledge of modern construction materials. More specifically, authors with research interests in the following topics are encouraged to submit their work: * Hygrothermal and/or mechanical characterization of eco-friendly construction materials. * Experimental or numerical investigation into new construction materials. * Innovative methodologies for assessing the sustainability of construction materials.

Guest Editors

Prof. Dr. Yassine El Mendili

Dr. Karim Touati

Dr. Mohammed-Hichem Benzaama

Deadline for manuscript submissions

closed (28 February 2025)

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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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