Special Issue

Fundamentals of Building Construction: Materials and Methods

Message from the Guest Editors

This Special Issue will cover the fundamentals of building construction, with an emphasis on materials and methods. The intention is to provide a holistic view of the latest and advanced technologies related to building materials in the areas of construction, operation, and management of civil engineering structures. The topics that will be covered include (but are not limited to) sustainbale building materials, concrete, timber, steel frame construction, recycled materials for building construction, constructoin materials and technology, rural housing, building retrofitting, strengthening and rehabilitation, geo-materials, life-cycle assesment, building pathology, water containment structures, non-conventional building materials, foundations and sitework, and interior and exterior wall systems**.** We are seeking high-quality work in the form of original research articles, review papers, best practices, and case studies. Case studies are highly encouraged but should include a discussion of the lessons learned along with the uniqueness of the study.

Guest Editors

Dr. Md Azijul Islam
Prof. Dr. Mohammad Shariful Islam
Dr. Faria Fahim Badhon

Deadline for manuscript submissions

closed (16 May 2023)

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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

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