



Development and Properties of Sustainable Composite Materials for Building Applications

Guest Editors:

Prof. Dr. Rabah Hamzaoui

ESTP PARIS, and Microbusiness
Director (Low Carbon
Construction Materials), 94234
Paris, France

Dr. Rachida Idir

Cerema, UMR MDC, 77171
Sourdun, France

Deadline for manuscript
submissions:

20 February 2025

Message from the Guest Editors

Dear Colleagues,

This Special Issue, entitled "Development and Properties of Sustainable Composite Materials for Building Applications," aims to encapsulate the breadth and depth of recent advancements in this field. We seek to explore how these materials can transform building practices, focusing on their mechanical properties, durability, and environmental impact. Composite materials in construction offer unique advantages, including improved strength-to-weight ratios, enhanced thermal properties, and increased longevity. This Special Issue will highlight innovative research on the development, testing, and application of such composites, providing insights into their potential to redefine the standards of modern construction. We invite contributions that address the scientific, technical, and practical aspects of building composite materials, from novel formulations to applications in real-world scenarios.

We welcome your submissions that push the boundaries of current knowledge and contribute to the sustainable practices of tomorrow's construction industry.

Guest Editors





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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
X@Buildings_MDPI