buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

Next-Gen Cementitious Composites for Sustainable Construction

Guest Editors:

Dr. Jiaxiang Lin

Dr. Karolos Kontoleon

Dr. Zhanbiao Chen

Deadline for manuscript submissions:
30 October 2024

Message from the Guest Editors

Dear Colleagues,

The construction industry is at a pivotal juncture, facing the dual challenges of ensuring sustainability and meeting the increasing demands for higher-performance materials. Cementitious composites, as the backbone of construction, are evolving to address these challenges. This ***Special Issue*** aims to showcase the latest advancements in sustainable, high-performance, and multifunctional cementitious composites, highlighting their potential to revolutionize construction practices and contribute to more resilient, energy-efficient, and environmentally friendly structures.

We invite contributions that explore innovative approaches in the design, formulation, and application of cementitious composites. Topics of interest include but are not limited to the following:

- Sustainable materials and practices
- Advanced performance
- Multifunctionality
- Innovative design and fabrication techniques
- Case studies and applications

Our goal is to highlight emerging trends, identify research gaps, and suggest future directions for the development of cementitious composites that meet the demands of modern construction while adhering to the principles of sustainability.

buildings

IMPACT FACTOR 3.1

CITESCORE 3.4

an Open Access Journal by MDPI

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