buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.8

CITESCORE 3.1

Application of Eco-Efficient Composites in Construction Engineering

Guest Editor:

Dr. Afshin Marani
Department of Civil Engineering, McMaster University, Hamilton, ON, Canada

Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editor

Dear Colleagues,

Buildings are a major source of operational and embodied anthropogenic global CO_2 emissions while the construction industry is responsible for extensive natural resources depletion and waste production. Therefore, performing comprehensive research to promote energy-efficient buildings, eco-friendly construction materials, and recycling material and energy within a circular economy approach is of great significance. This Special Issue invites robust and novel research studies on carbon-neutral building materials, building materials with high recycled content, utilization of by-products and waste materials in construction, eco-efficient technologies in building engineering, additive manufacturing in building engineering, artificial intelligence, IoT technologies for sustainable and resilient buildings, and related innovative research centered on the sustainability of building materials. Experimental, analytical, and numerical models with clear novelty and contribution to the state of the art will be considered. Redundant studies that report on issues already covered in the open literature will not be considered.

Dr. Afshin Marani
Guest Editor

buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.8

CITESCORE 3.1

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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