buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

Application of High-Performance Asphalt and Asphalt Mixture in Construction

Guest Editors:

Dr. Xiaowei Wang

Dr. Jiwang Jiang

Dr. Minghui Gong

Dr. Ning Li

Deadline for manuscript submissions:
20 March 2025

Message from the Guest Editors

The development and application of high-performance asphalt and asphalt mixtures have emerged as crucial components in modern construction. The utilization of high-performance asphalt mixtures incorporates innovative additives and modifiers that enhance material properties, including rubber, polymers, reclaimed asphalt pavements (RAP), cement, et al. These components contribute to the mixtures' flexibility, strength, and recyclability, further reducing the environmental impacts. In construction, the application of these technologically enhanced asphalts ensures a faster, more efficient paving process, with reduced maintenance requirements and greater cost-effectiveness over time.

Therefore, this Special Issue welcomes the submission of experimental, modelling, and in situ studies related to high-performance asphalt and asphalt mixtures, pavement construction techniques, and field performance. The articles presented in this Special Issue shall clearly identify their novelty and contribution to the field.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/AKC8711E52

buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

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