buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

Advances in Wind Effects on Buildings

Guest Editors:

Prof. Dr. Bo Chen
School of Civil Engineering, Chongqing University, Chongqing, China

Prof. Dr. Ying Sun
School of Civil Engineering, Harbin Institute of Technology, Harbin, China

Dr. Min Liu
School of Civil Engineering, Chongqing University, Chongqing, China

Deadline for manuscript submissions:
closed (31 March 2024)

Message from the Guest Editors

In recent years, there are many notable developments of the study on wind effect analysis of buildings, including wind tunnel test techniques, CFD simulation, machine learning in wind engineering, non-Gaussian wind pressures, nonstationary wind effects, areo-elastic effects of large-span membrane and high-rise buildings, wind interference effects, equivalent static wind loading, wind-induced responses of base-isolated buildings, wind vibration control of flexible buildings, wind-induced damage analysis of cladding systems, wind-related multiple hazards for buildings, performance-based wind engineering, design wind loading for building codes, etc.

To reflect the recent progress in wind effect analysis of buildings, a special issue on this topic is proposed. Original articles, case reports, and reviews in the field of wind loading and wind responses analysis of buildings are warmly welcome.

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