

# Special Issue

## Extreme Performance of Composite and Protective Structures

### Message from the Guest Editors

Modern structural design must focus on withstanding extreme dynamic loads due to threats like blasts, high winds, hurricanes, and earthquakes. Protective buildings need new requirements to ensure safety and functionality. This involves understanding dynamic loading and using innovative materials and strategies. In the Special Issue "Extreme Performance of Composite and Protective Structures," we welcome contributions on structural analysis, design techniques, and protective composites for buildings facing extreme conditions. This collection targets academics, engineers, architects, and other professionals.

We invite authors to contribute original research articles, comprehensive reviews, and insightful case studies to this Special Issue. Topics of interest include, but are not limited to:

- Structural dynamic approaches and numerical applications
- Blast resistance structures
- Impact analysis and mitigation
- Structural performance assessment under natural hazards
- Risk and mitigation analysis
- Experimental methods and results
- Numerical modeling
- Vibration analysis and dynamic characterization
- Shock tube testing and blast field testing

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### Guest Editors

Dr. Ahmed Elbelbisi

Prof. Dr. Hani Salim

Dr. Alaa Elsis

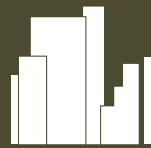
Dr. Mohamed Elshazli

Dr. Ahmed M.E. Elkilani

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### Deadline for manuscript submissions

30 November 2026



## Buildings

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*Buildings*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[buildings@mdpi.com](mailto:buildings@mdpi.com)

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## About the Journal

### 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.

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### 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

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### Author Benefits

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).