# Special Issue

# Research on High-Temperature-Resistant Materials in Buildings

### Message from the Guest Editor

We would like to invite you to submit your recent studies pertaining to the performance of building materials at high temperatures. This Special Issue welcomes original research articles and reviews. The research areas of interest may include the effects of high temperatures on polymers, metals and ceramics, concrete, and wood in building applications. The mechanical and thermal properties of building materials are of great interest in this Special Issue. The other areas of equal interest include the combustion behavior of building materials, novel test methods of materials at high temperatures, and the implementation of high-temperature-resistant materials in fire safety engineering designs of buildings. In addition, finite element simulations and numerical simulations of building materials under stress and high temperatures are very welcome.

### Guest Editor

Dr. Hamzeh Hajiloo

Civil and Environmental Engineering, Carleton University, Ottawa, ON K1S 5B6, Canada

### Deadline for manuscript submissions

closed (30 December 2023)

**Buildings**

**an Open Access Journal by MDPI**

**Impact Factor 3.1**
**CiteScore 4.4**

mdpi.com/si/115780

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

mdpi.com/journal/buildings

# Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/journal/buildings

# 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.

### 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

### 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 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).