

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

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Deadline for manuscript submissions

closed (30 December 2023)



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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.

Editor-in-Chief

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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).