

# Special Issue

## Design of Building Fire Prevention and Smoke Control

### Message from the Guest Editors

As the places where humans spend most of their time living and working, buildings must be carefully considered for fire safety. Since casualties in building fires are mainly caused by toxic smoke, research on indoor fire smoke control is demanded and meaningful. The aim of this [Special Issue](#) is to provide a platform to present the latest developments in building fire prevention and indoor smoke control, and to discuss possible implications in the associated regulations and standards. Original fundamental and applied research into experimental, theoretical and computational modeling and case studies that contribute towards the understanding and improvement of building fire prevention and indoor smoke control are welcome. Research areas may include (but are not limited to) the following:

- Building fire dynamics;
- Smoke characteristics, transport and control in buildings;
- Performance-based design of building fire;
- New technologies and methods;
- Fire modeling and simulation;
- Human evacuation.

For scholars interested to submit papers to the [Special Issue](#), please click "[Submit to Special Issue](#)" or contact Astoria Yao: [astoria.yao@mdpi.com](mailto:astoria.yao@mdpi.com).

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### Guest Editors

Prof. Dr. Fang Liu  
Prof. Dr. Longxing Yu  
Dr. Shengzhong Zhao

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### Deadline for manuscript submissions

closed (20 September 2022)



## Buildings

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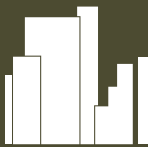


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## About the Journal

### 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

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### Author Benefits

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

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
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#### 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).