

## Special Issue

# Building Fire Dynamics and Fire Evacuation, 2nd Edition

### Message from the Guest Editors

The occurrence of building fires has been frequent in recent years, and more (super) high-rise buildings in metropolitan areas may result in crowd disasters and huge property loss, with the challenge of guaranteeing the evacuation safety of occupants in such structures still ongoing due to the difficulty in predicting a fire's development. Thus, we are pleased to invite researchers from all over the world to investigate the dynamic behaviors of smoke and flames, as well as crowd evacuation in building fires. In this Special Issue, we welcome original research articles and reviews concerning areas including (but not limited to) the following:

- Evacuation experiments and modeling;
- Human behaviors in fire;
- Crowd management methodologies;
- Fire smoke movement and control;
- Flame behaviors in combustion and flame spread;
- Properties of combustion products—heat, smoke, flame, etc.;
- Fire detection and suppression, risk analysis, and management;
- Fire testing of materials;
- Fire modeling.

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### Guest Editors

Prof. Dr. Lizhong Yang

Dr. Zhijian Fu

Dr. Zhilu Yuan

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### Deadline for manuscript submissions

31 August 2025



## Fire

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## About the Journal

### Message from the Editor-in-Chief

*Fire* is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire's* Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

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### Editor-in-Chief

Dr. Grant Williamson

School of Biological Sciences, University of Tasmania, Private Bag 55,  
Hobart, TAS 7001, Australia

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#### Journal Rank:

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