

## Special Issue

# Fire Dynamics, Smoke Control and Safety Engineering in Built Environments

### Message from the Guest Editors

Fire dynamics, smoke control and built environment safety engineering are critical to safe, resilient building design amid growing architectural complexity and persistent fire risks. This field underpins public safety, building codes and emergency response by addressing fire ignition and propagation, regulating smoke migration, and developing integrated fire protection systems.

This Special Issue welcomes fundamental and applied research on fire performance, smoke management, risk analysis, sustainable design and advanced simulation techniques.

Topics include:

- (1) Building Fire Dynamics and Extreme Fire Behavior
- (2) Building Smoke Exhaust Systems and Control
- (3) Occupant Safety and Evacuation
- (4) Simulation and Experimental Methods
- (5) Design and Performance-Based Assessment
- (6) Fire Safety in Novel/Special Buildings
- (7) AI and Data-Driven Methods

---

### Guest Editors

Dr. Peng Hu

Dr. Lei Deng

Dr. Junfeng Chen

Dr. Zeng Long

---

### Deadline for manuscript submissions

31 March 2027



## Fire

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 3.9



[mdpi.com/si/280029](https://mdpi.com/si/280029)

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

[mdpi.com/journal/  
fire](https://mdpi.com/journal/fire)





# Fire

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 3.9



[mdpi.com/journal/  
fire](https://mdpi.com/journal/fire)



## 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.

---

### Editor-in-Chief

Dr. Grant Williamson  
School of Biological Sciences, University of Tasmania, Private Bag 55,  
Hobart, TAS 7001, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), AGRIS, PubAg, and other databases.

#### Journal Rank:

JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)