

## Special Issue

# Understanding and Managing Extreme Wildland Fires

### Message from the Guest Editors

This Special Issue “Understanding and Managing Extreme Wildland Fires” will focus on topics including pyro-cumulonimbus formation, ember generation, transport and storms, fire whirls, fire tornados, eruptive fire, vortex-driven lateral spread, and fire merger with a view to developing an improved knowledge of the hazards, which can inform fire management strategies. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Case studies or data-driven empirical studies of extreme fire events around the globe;
- Numerical simulation or empirical studies of the phenomena driving extreme wildfire events (pyrocumulonimbus formation, ember storms, vortical fire events, eruptive fire, and merger);
- Development of models or correlations, including machine-learning models, for the prediction of extreme fire behaviour;
- Proposed strategies for improving the operational management of extreme wildfires and post-fire management.

We look forward to receiving your contributions.

---

### Guest Editors

Prof. Dr. Khalid Moinuddin  
Institute for Sustainable Industries and Livable Cities, Victoria University, Melbourne, VIC 3030, Australia

Dr. Duncan Sutherland  
School of Science, University of New South Wales, P.O. Box 7916, Canberra, ACT 2610, Australia

---

### Deadline for manuscript submissions

closed (31 December 2023)



## Fire

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 3.1



[mdpi.com/si/126927](https://mdpi.com/si/126927)

*Fire*  
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 3.0  
CiteScore 3.1



[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 - Q2 (Forestry)