



Advance in Tunnel Fire Research

Guest Editors:

Dr. Kaihua Lu

Dr. Jianping Zhang

Dr. Jie Wang

Dr. Xiaochun Zhang

Dr. Wei Tang

Deadline for manuscript
submissions:
closed (30 September 2024)

Message from the Guest Editors

All kinds of tunnels are emerging all over the world due to the modern architectural trends. Although the development of tunnel brings convenience to people's life, tunnel fire often leads to tunnel structure damage and a large number of casualties. Currently in recent years, the diversity of tunnel fires have brought up advanced and unique challenges to tunnel fire safety, making the relevant research in general necessary.

This Special Issue aims to highlight the original findings regarding to the tunnel fire, and the potential perspectives for future investigations are also encouraged. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Fire and smoke transport mechanism
- Thermal effect on structural safety
- Smoke control strategy
- Fire detection and suppression technology
- Human evacuation procedures
- The application of fire retardant materials in tunnels
- The combination of tunnel fire with AI technology

We look forward to receiving your contributions.





fire



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Grant Williamson

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

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.

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)

Contact Us

Fire Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/fire
fire@mdpi.com
[X@Fire_MDPI](#)