

Special Issue

Aircraft Fire Safety

Message from the Guest Editors

Aircraft fire safety is an important subject of aviation safety. The wide application of composite materials, fuels & electronic equipment has increased its complexity & threat. In extreme environments, there are many challenges in fire evolution mechanisms, detection & suppression, flame-retardant performance of materials, etc. The SI aims to explore new ideas of fire dynamics, detection & suppression, fire performance of airframe materials, fire accident investigations & emergency responses. It is including but not limited to:

- Fire dynamic, heat & mass transfer under special fire environments
- Fire experiment, modeling & CFD simulations
- Aircraft fuel fires
- New halon replacement method of fire suppression
- Intelligent, multi-method fire detection & risk assessment
- Effects of ambient pressure, ventilation & temperature on fire behaviors, detection & suppression
- Airworthiness verification methods for fire protection & suppression
- Evacuation experiments, models & simulations
- Emergency response strategies & accident investigation techniques
- Materials flammability & flame-retardant performance evaluation

Guest Editors

Dr. Pei Zhu

Dr. Quanyi Liu

Dr. Zhenxiang Tao

Dr. Imrana I. Kabir

Deadline for manuscript submissions

31 October 2025



Fire

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 3.9



mdpi.com/si/227318

Fire
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)