# **Special Issue**

## **Fire Numerical Simulation**

## Message from the Guest Editors

Fire numerical simulation plays an important role in fire research. It takes advantage of the advances in mathematics, modeling and computing to capture the underlying physics of complex fire problems and predict fire behaviors at various scales. In addition to experiments, fire numerical simulation allows us to further understand fire and to prevent and contain it. Recently, with the development of the numerical simulation method and computing power, fire numerical simulation has faced new opportunities and challenges. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Current development and application of fire numerical simulation tools;
- Newly developed fire sub-models;
- Physics findings based on fire numerical simulation;
- Case studies with fire numerical simulation to reproduce the real fire scenarios;
- Evacuation and human behavior numerical simulation in fires:
- Fire suppression numerical simulation;
- Numerical simulation regarding fire resistance of structures;
- Wildland fire-induced geological disaster numerical simulation.

#### **Guest Editors**

Prof. Dr. Yanming Ding

Dr. Kazui Fukumoto

Dr. Jiaging Zhang

#### Deadline for manuscript submissions

closed (15 August 2024)



## **Fire**

an Open Access Journal by MDPI

Impact Factor 2.7 CiteScore 3.9



mdpi.com/si/143648

Fire
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fire@mdpi.com

mdpi.com/journal/ fire





## **Fire**

an Open Access Journal by MDPI

Impact Factor 2.7 CiteScore 3.9



## 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)

