

## Special Issue

# State of the Art in Combustion and Flames

### Message from the Guest Editors

The state of the art in the study of combustion and flame has been gradually applied to smart firefighting, which can play an important role in solving the frequent occurrence of fire accidents. Big data, artificial intelligence, the Internet of Things, and other new technologies are gradually being applied in the field of firefighting. These technologies allow firefighting work to achieve real-time monitoring, early warnings, and timely suppression. This Special Issue aims to discuss and solve challenges in firefighting through the application of the latest technology. The scope includes, but is not limited to, the following: big data application; IOT technology; early warning technology; sensor layout and design; simulations for firefighting; and the latest firefighting technology for new energy as well as regulatory and policy issues. Our goal is to advance our understanding of the fundamental principles of and practical solutions for smart firefighting. We invite submissions from researchers and experts in the field to contribute to this Special Issue, which will provide valuable insights into this critical area of research. We look forward to receiving your contributions.

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### Guest Editors

Dr. Ruichao Wei  
Dr. Shengfeng Luo  
Dr. Xuehui Wang

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### Deadline for manuscript submissions

30 June 2026



## Fire

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## 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.

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### Editor-in-Chief

Dr. Grant Williamson  
School of Biological Sciences, University of Tasmania, Private Bag 55,  
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