## **Special Issue**

### Developments of Modelling, Diagnostics, and Al-Aided Techniques in Combustion and Fire Science

### Message from the Guest Editors

Fire is an unexpected and uncontrolled combustion process, and due to its wide-scale variations and the involvement of various combustible materials, it is unique in many aspects. For example, in the realm of fire modelling, the simplicity, efficiency and easy implementation of the models gain more attention, so most fire models incorporate many empirical parameters. This Special Issue thus focuses on the differences and connections between fundamental combustion and fire science, aiming to provide new perspectives on modeling, diagnostics and data-driven techniques, which is expected to better promote the development of robust research methods for fire science. We cordially invite the researchers and experts in the fields, including, but not limited to, wildfire, leakage fire and hydrogen combustion, to contribute to this Special Issue, which will provide an excellent platform to exchange invaluable insights and gain extended knowledge on fire dynamics and its connections to fundamental combustion

### **Guest Editors**

- Dr. Yong Hu Dr. Masaya Muto Dr. Kuibin Zhou Dr. Reo Kai
- Dr. Kin Pang Cheong

#### Deadline for manuscript submissions

31 October 2025



# 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.

### Editor-in-Chief

Dr. Grant Williamson School of Biological Sciences, University of Tasmania, Private Bag 55, Hobart, TAS 7001, Australia

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