

# Special Issue

## Heat Transfer in Fire

### Message from the Guest Editors

Heat transfer and temperature analysis are core issues in fire safety engineering. It is temperature that governs the process of deterioration of materials. Therefore, sound knowledge heat transfer and temperature analysis are crucial for the understanding of fire dynamics and fire phenomena such as ignition and fire spread, as well as analysis of the loadbearing capacity of structures exposed to fire. This Special Issue aims at elucidating heat transfer in a wide range of fire scenarios involving various kinds of materials. Articles related to building fires as well as wildfires are welcome. Reports on testing experiences, as well as developments of calculation methods, are of interest. Measuring techniques suitable for harsh fire exposure and the use of data thereof for estimation of exposed body temperature are appreciated. Research areas may include (but are not limited to) the following:

- Ignition properties of materials;
- Measurements of thermal exposure from bushfires;
- Influence of water content on ignition of wood;
- Boundary conditions of fire exposed structures.

I look forward to receiving your contributions.

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### Guest Editors

Prof. Dr. Ulf Wickström

Department of Civil, Environmental and Natural Resources Engineering,  
Luleå tekniska Universitet, Luleå, Sweden

Prof. Dr. Tomaž Hozjan

Faculty of Civil and Geodetic Engineering, University of Ljubljana, 1000  
Ljubljana, Slovenia

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### Deadline for manuscript submissions

closed (30 November 2023)



## Fire

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*Fire*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[fire@mdpi.com](mailto:fire@mdpi.com)

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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,  
Hobart, TAS 7001, Australia

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