Special Issue

Fire Safety in Modern Timber Buildings

Message from the Guest Editor

The construction industry has shown more interest in eco-responsible building materials and systems with a low environmental footprint, including wood products and bio-based materials. Approaches and methods used in fire safety engineering require knowledge of fire dynamics, fire safety concepts, the life safety of occupants and firefighters, as well as the protection of neighboring buildings. Engineering approaches would also use numerical models, such as those using the finite element method (FEM) or computational fluid dynamics (CFD), among others. The special issue aims to gather the latest advances in fire science and timber engineering to gain a holistic understanding of how innovative and/or emerging timber or bio-based systems or materials affect fire safety in buildings. Fire safety concepts such as reaction to fire, fire resistance of elements and connections, fire dynamics, thermal properties, and numerical modeling will be included. The outcomes from fire tests at all scales will also be examined, with the ultimate objective of disseminating science-based evidence to support fire safety engineering designs.

Guest Editor

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Deadline for manuscript submissions

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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

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