

Special Issue

Building Fires, Evacuations and Rescue

Message from the Guest Editors

With the increasing complexity of urban structures and the evolving nature of materials and technologies used in construction, the study of fires within buildings has become more pertinent. The scientific background of this research area is grounded in multidisciplinary fields such as fire science, structural engineering, emergency management, and human behavior. This Special Issue aims to bring the latest research findings, innovative methodologies, and practical solutions related to building fires, evacuations, and rescue operations. Suggested topics include, but are not limited to research articles exploring the interaction between fire and construction materials; studies examining the impact of fires on the structural integrity of buildings; computational and empirical research on evacuation dynamics, crowd behavior during emergencies, and the development of simulation tools to optimize evacuation routes and procedures; articles showcasing the integration of IoT, AI, and sensor networks in enhancing fire detection, monitoring, and response within smart buildings.

Guest Editors

Dr. Changcheng Liu

School of Environment and Safety Engineering, North University of China, Taiyuan 030051, China

Dr. Zhi Li

School of Resource and Safety Engineering, Central South University, Changsha 410083, China

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

Editor-in-Chief

Dr. Grant Williamson

School of Biological Sciences, University of Tasmania, Private Bag 55,
Hobart, TAS 7001, Australia

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