



fire



an Open Access Journal by MDPI

Building Fire Dynamics and Fire Evacuation

Guest Editors:

Prof. Dr. Lizhong Yang

State Key Laboratory of Fire Science, University of Science and Technology of China, Hefei 230026, China

Dr. Zhijian Fu

School of Transportation and Logistics, Southwest Jiaotong University, Chengdu 610031, China

Dr. Yanqiu Chen

Department of Fire Protection Engineering, Southwest Jiaotong University, Chengdu 610031, China

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

The occurrence of building fires has been frequent recently, and high-rise buildings in metropolitan areas may result in crowd disasters and property loss, with the challenge of guaranteeing the evacuation safety of occupants in such structures still ongoing due to the difficulty in predicting a fire's development. Thus, we are pleased to invite researchers from all over the world to investigate the dynamic behaviors of smoke and flames, as well as the evacuation in building fires.

This Special Issue aims to link internal psychology features to the external human behaviors in building fires, find the spatial-temporal evolution of crowd disasters, and provide suggestions and methodologies for crowd management in building fires. This Special Issue also focuses on promoting scientific and technological communications directed at fire dynamics and evacuation in building fires, and aims to cover all aspects and the related management, application, fire smoke dynamics, flame behavior, evacuation experiments and modelling, human behaviors in fire, fire risk analysis, fire and crowd management, as well as the chemistry and industrial applications of fire-retardant chemicals.



mdpi.com/si/109716

Special Issue