Special Issue

Fire (Post-fire) Behaviour of Concrete or Steel Material and Structural Members

Message from the Guest Editors

Concrete materials and structures are the most important components of current buildings, such as beams, columns, slabs, and other structural members, which are widely used in urban multi-story buildings, high-rise buildings, and super high-rise buildings. Scholars have carried out a lot of research on the fire resistance of concrete or steel material and structural elements, but most studies focus on ordinary concrete material itself or a single member. Therefore, it is still a challenge to accurately and comprehensively describe the fire behavior of concrete materials and structures under actual working conditions. This Special Issue aims to collect information on the fire or post-fire behavior of RC structural elements, including new concrete materials, steel, prestressed concrete, cast-in-place concrete structures, prefabricated concrete structures, etc. Research areas may include (but are not limited to) tests, numerical methods, and analytical models to study the mechanical behavior and failure patterns of concrete material and structural members under high temperatures or after fire.

Guest Editors

Dr. Li Li

Dr. Cong Zhang

Dr. Mehran Khan

Dr. Yong Wang

Deadline for manuscript submissions

closed (15 July 2023)

Fire

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 3.9

mdpi.com/si/153079

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

mdpi.com/journal/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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