fire

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 3.1

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

Guest Editors:

Dr. Li Li

Dr. Cong Zhang

Dr. Mehran Khan

Dr. Yong Wang

Deadline for manuscript submissions:
closed (15 July 2023)

Message from the Guest Editors

Dear Colleagues,

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.