Special Issue

Thermal–Mechanical Analysis Applied in Materials under Fire Conditions

Message from the Guest Editor

Fire-resistant material is an indispensable part for industries associated with high temperature, such as metallurgic, mechanical, chemical and construction filed etc.. We are pleased to invite researchers from all over the world to investigate the thermal–mechanical analysis and lowering methods applied in materials under fire condition. This Special Issue aims to highlight the original findings regarding to the fire-resistant materials, and the potential perspectives for future investigations are also encouraged. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Heat conduction and thermal stress calculation
- Geometric deformation of fire-resistant materials at high temperatures
- Thermal conductivity and fire resistance of fire-resistant materials
- Heat transport in high-performance concrete
- Thermal analysis method
- Dynamic thermal analysis technology
- Fire-resistant coatings
- Burst spalling of concrete structures at high temperature

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2024)

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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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