fire

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# Thermal–Mechanical Analysis Applied in Materials under Fire Conditions

Guest Editor:

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## Message from the Guest Editor

Dear Colleagues,

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