Special Issue

Combustion and Fluid Mechanics, Advance in Fire Safety Science

Message from the Guest Editors

The present Special Issue aims to address the recent efforts and advances in fire safety science. The topics of interest for this Special Issue include but are not limited to the following topics, both bringing together experimental investigations and numerical model development:

- Thermal decomposition of solid fuel, thermophysical properties, and model of pyrolysis
- Flaming ignition process
- Fluid mechanics in fire, diffusion and aerolic phenomenon
- Gaseous combustion, finite and non-finite chemistry
- Solid / gas interactions and couplings
- Flame propagation and characteristics
- Gaseous emissions and their impact
- Wall / Flame interaction and description, convective models
- Influence of the ventilation on the fire characteristics
- Radiative thermal exchange and radiation models
- Extinction process and its description
- Specific case of charring material thermal decomposition and combustion
- Smoldering combustion and its characteristics
- Advance in facade fire
- Advance in timber combustion

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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