



fire



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Turbulent Combustion Modelling, Experiment and Simulation

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Message from the Guest Editors

Turbulent combustion is the main combustion form of natural fires. As a basis of fire science research, it is closely related to fire evolution, flame behavior, thermal radiation, air entrainment, toxic gas generation, smoke diffusion and other problems. This fire behaves variably, experiencing a combustion from laminar to turbulent. Fully turbulent combustion in large-scale fires is closer to a real fire scenario.

Therefore, we are pleased to invite researchers from all over the world to investigate the dynamic behaviors of turbulent combustion in any fire scenario, such as industrial fires, building fires, tunnel fires, etc. Fully turbulent combustion in large-scale fires is of key concern. This Special Issue wishes to provide insights into the frontiers of the latest progress in fire safety science and engineering issues relevant to turbulent combustion, especially to establish some prediction models of fire characteristic parameters based on experiment, simulation and theoretical analysis, which can serve for fire monitoring and warning. This Special Issue also focuses on advanced methods and techniques for fire control and suppression.



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Special Issue