Special Issue

Experimental and Numerical Studies on Combustion and Heat Transfer in Liquid Fuel Fires

Message from the Guest Editors

Liquid fuels, like hydrocarbons and biofuels, are key to global energy. Accidental ignition can cause dangerous fires. Understanding these fires is crucial for fire safety. Parameters like burning rate and flame radiation help assess fire scale and guide firefighting. These are influenced by heat transfer between the flame, environment, and fuel. Thus, studying liquid fuel fires through experiments and simulations is essential for prevention and control. This Special Issue seeks cutting-edge research on the combustion and heat transfer of liquid fuel fires using experimental and simulation methods. We welcome original articles and reviews. Topics include:

- Ignition of liquid fuels
- Heat transfer in spill and pool fires
- Flame spread and radiation
- Radiation blockage
- Heat transfer among flames, liquids, and the environment
- Internal heat transfer in liquid fuels
- Fire modeling and simulation tools

Guest Editors

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Deadline for manuscript submissions

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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

Dr. Grant Williamson
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