

## Special Issue

# Recent Progress on Water Spray Applications in Fire Safety

### Message from the Guest Editor

Water-based fire suppression systems, like sprinklers and water mist, can reduce the rate of spreading fires by blocking thermal radiation. The goal of this Special Issue is to demonstrate the latest progress to advance our understanding and knowledge of water spray systems (water mist and sprinklers) for fire safety applications. The scope of this Special Issue, for which we are inviting articles, includes theoretical and fundamental studies, e.g., using computational fluid dynamics (CFDs), and experimental studies offering new insights or data for the validation of models. The applications areas of this Special Issue are not restricted; they include water spray applications for fires in residential occupancies, buildings, public spaces, industry, tunnels, ships, aviation, machinery spaces, nuclear power plants, commercial cooking areas, etc. Articles on new innovative application areas of water spray in fire suppression are also welcome.

### Guest Editor

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### Deadline for manuscript submissions

21 October 2025



## Fire

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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.

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### Editor-in-Chief

Dr. Grant Williamson

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