

Special Issue

Wildfire Spread and Weather: Theory, Models and Reality

Message from the Guest Editor

Wildfires are a high-impact societal problem, posing a major threat to life and property, damaging natural resources, and inducing adverse primary and secondary environmental effects. Contributing to the increasing concern about wildfires is the increase in both their frequency and spatial extent, attributed to climate change and other anthropogenic factors, such as the expansion of the wildland–urban interface. However, although a warmer climate may set the stage for more frequent and larger wildfires, each wildfire ultimately responds to the nexus of terrain, fuels, and weather. Understanding the influence of weather on wildfire spread and the two-way coupling between the two is essential for effective wildfire management, in particular for promoting safe and effective prevention and suppression activities. In this Special Issue, we encourage the submission of studies covering all aspects of wildfire spread research that are related to the influence of weather, including studies on fire–atmosphere interactions.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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