Special Issue

Atmospheric Electricity and Fire in a Changing Climate

Message from the Guest Editors

Lightning is one of the most predominant causes of wildfire ignition worldwide. However, there are still noteworthy uncertainties in the process of ignition by lightning and the subsequent spreading of fire. The aim of this Special Issue is to provide recent advances in lightning-ignited wildfires, with topics of interest including, but not being limited to:

- Preferential meteorological conditions of lightning-ignited wildfires;
- Synoptic weather patterns associated with lightning-ignited wildfires;
- Electrical characteristics of fire-igniting lightning;
- Laboratory experiments on electrical discharges and fuel conditions leading to ignitions;
- Climate lightning-fire teleconnections;
- Lightning-ignited wildfires and climate change;
- Characteristics of thunderstorms causing lightning-ignited wildfires;
- The modeling and detection of lightning-ignited fires;
- Environmental drivers of smoldering and holdover fires;
- Studies on lightning-ignited wildfires in regions where such fires receive less attention.

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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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