

## Special Issue

# State-of-the-Art in Severe Weather Research

### Message from the Guest Editor

Severe and large-scale hailstorms produce significant damage in many regions globally. In recent years, the occurrence trends of very large hail have tended to rise in most parts of the world with global warming, and only some areas have shown different behaviors. On the other hand, small hail events seem to have reduced in number. As well as global warming, several other direct and indirect factors could influence hail occurrence and distribution. However, the irregularity of such cases and the complexity of the processes inside thunderstorms make it difficult to definitively conclude about the future trends of hail. This Special Issue will publish research that enhances our understanding of the hail cycle's different steps, including studies analyzing topics from the identification of favorable large-scale and meso-scale environments to micro-physics inside hailstorms. The issue will thus provide insights into this specific field of atmospheric sciences.

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### Guest Editor

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### Deadline for manuscript submissions

20 October 2026



## Atmosphere

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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!

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### Editor-in-Chief

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