



## Special Issue on Advances in Dynamic Meteorology

### Call for Papers

Dynamic meteorology is the branch of fluid dynamics concerned with the meteorologically significant motions of the atmosphere. It forms the primary scientific basis for weather and climate prediction, and thus plays a primary role in the atmospheric sciences. Most of the meteorologically important motions studied in dynamic meteorology are profoundly influenced by the facts that the Earth is a rapidly rotating planet, and that the atmosphere on average has stable density stratification. The goal of this special issue is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in this area of **advances in dynamic meteorology**.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **advances in dynamic meteorology**. In this special issue, potential topics include, but are not limited to:

- Atmospheric deep convection
- Extra-tropical cyclones
- Atmospheric thermodynamics
- Atmospheric circulation and atmospheric turbulence
- Numerical experiment of atmospheric motion
- Ensemble prediction and algorithmic parameter estimation techniques
- Climate dynamics and the implications posed for global change
- Future changes to our weather and climate on global and regional scales

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue - Advances in Dynamic Meteorology**” should be chosen during your submission.

According to the following timetable:

Submission Deadline	August 25th, 2024
Publication Date	October 2024

#### Guest Editor:

Prof. **Shaocai Yu**, North Carolina State University, USA



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