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Astroclimatic Conditions

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Current problems in the field of astronomy require the creation and modernization of existing instruments. Tasks require a constant increase in parameters such as improving the sensitivity of receivers, increasing the angular resolution, increasing the field of view, and multi-wave spectral analysis. The limiting factor for all these requirements is always the earth's atmosphere. The purpose of this Special Issue is to showcase the latest results in the field of research of the Earth's astroclimate. The study of the astroclimate plays an important role not only in astronomy but also in applied problems, such as optical communication, etc.

Interesting topics for the Special Issue include various areas including, but not limited to, the following:

* New methods of observation of astroclimate parameters;

* Modeling of astroclimate parameters for problems of astronomy, vision systems, energy transmission, and communication;

* Atmospheric turbulence;

* Atmospheric boundary layer;

* Astroclimate in the tasks of sub.mm astronomy;

* Research of the astroclimate from space.

We will be glad to see your work in our Special Issue!

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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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