Special Issue

Developments in the Detection and Characterization of Planetary Atmospheres

Message from the Guest Editors

The study of the various atmospheric and exospheric environments in our solar system, from telluric planets to gas and ice giants and even to dwarf planets, as well as of their respective satellites offer a “close” comparative laboratory in our understanding of the growing numbers of exoplanet candidates and their potential habitability. We are inviting researchers to contribute original research articles as well as review articles including the current state-of-the art techniques for the observation/investigation of (exo-)planetary atmospheres, their composition, chemistry, and dynamics. In addition, authors are encouraged to discuss the current technical challenges and recent developments, as well as put emphasis on the habitability issue.

Guest Editors

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Deadline for manuscript submissions

closed (19 November 2021)

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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!

Editor-in-Chief

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