Special Issue

Planetary Atmospheres: From Solar System to Exoplanets

Message from the Guest Editor

There is currently a considerable effort from the science community to study the planetary atmospheres, within and beyond our Solar System. Nevertheless, the knowledge of all mechanisms at work on Solar System telluric planet atmospheres' is still limited. An understanding of the dominant factors and mechanisms controlling the atmospheric general circulation and its chemical composition is a prerequisite to our understanding of planets' climate variability and evolution. In this context, Venus, Mars are natural comparative laboratories to investigate diversity of circulation regimes and composition of terrestrial planets' atmospheres. Atmospheres of telluric planets, as Mars and Venus, temporal and spatial variability of winds, the role of waves and the mechanisms that allow topography to influence the upper cloud motions need to be addressed and these will be our next focus of interest.

Guest Editor

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Deadline for manuscript submissions

closed (22 November 2022)

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/78393

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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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