



Solar UV Radiation

Guest Editor:

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Message from the Guest Editor

Solar radiation, being the only source of energy received by the Earth, is a key issue for the survival of our planet, its environment, and for life on Earth. Solar radiation has a major impact on various phenomena, such as the energy balance of the Earth's surface, photochemical reactions in the atmosphere, meteorological and climatic conditions, ocean circulation cycles, photosynthesis, and global warming. It is, therefore, essential to have correct knowledge on extra-terrestrial global solar radiation, its spectral composition and its potential variations, and the obstacles for the penetration of these radiations to the ground level.

This Special Issue aims to review techniques for solar radiation measurements and modeling, including historical developments, technical comparisons, new instrumental design, solar radiation networks, recent measurements from space and at the ground level, new radiation transfer models, comparison of models and in situ measurements, and new statistical studies for predictive methods.





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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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