



## Solar Radiation: Measurements and Model Studies—Progress and Perspectives

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Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

It is well known that the need to advance the use of green energy seeks to reduce environmental pollution, achieve economic goals, and undermine the mechanism of climate change. Solar radiation is considered as the cleanest, most accessible and alternative source of renewable energy that can meet future energy needs. With recent developments in solar energy projects around the globe, a proper estimation of solar radiation and related parameters is most needed.

We invite researchers to contribute original research manuscripts on all aspects of solar radiation, measurements and modelling. Relevant research includes, but is not limited to:

Radiation studies that present new knowledge of aerosol–cloud–radiation interactions on a regional scale;

Characterization of the effects of air pollution processes on radiation;

Testing different techniques, measurement and models for a precise understanding of solar radiation;

Solar UV radiation;

Optical radiation propagation;

Dynamic and microphysics radiation;

Electromagnetic radiation; emission, absorption, and scattering rates.





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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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