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Frontiers in Solar UV Radiation Observations, Prediction, and Personal Exposure

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Deadline for manuscript submissions:
closed (31 May 2022)

Message from the Guest Editor

Considerable attention has been paid to solar UV radiation in the last two decades of the 20th century. Recognition of ozone depletion led to the establishment of the Montreal Protocol. However, despite the success of the Montreal Protocol and ozone stabilization, UV radiation levels are still high. Our understanding of the links between UV radiation, ozone, and climate change is incomplete, and it is important to understand the factors affecting solar UV radiation, as well as, accurate UV measurements, and prediction.

This Special Issue aims to compile a set of papers that empirically and theoretically shift the understanding of the topic of solar UV radiation observations, prediction, and personal exposure. Topics of interest for the Special Issue include but are not limited to:

- Measurements of ground-based solar UV radiation and total ozone column;
- Satellite monitoring of solar UV radiation and total ozone column;
- Modeling solar UV radiation;
- Factors affecting solar UV radiation;
- Long-term and short term solar UV radiation variability;
- The future evolution of the solar UV radiation and ozone layer;
- Measurements of personal UV exposure.

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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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Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

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