



Atmospheric Applications in Microwave Radiometry

Guest Editor:

Dr. Francisco Navas-Guzmán

Physics of The Atmosphere,
University of Granada, 18010
Granada, Spain

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to present atmospheric research results in the field of passive microwave remote sensing. It will cover wide radiometry applications such as the determination of humidity and temperature structure, retrieval of cloud and precipitation properties, and observations of relevant trace gases. We also invite researchers to contribute with original research articles dealing with activities that are used to validate products from these observations. Contributions on fundamental aspects of microwave radiometry and atmospheric-application-driven innovation such as hardware development, radiometer calibration, and measurement configuration are welcome, as well as on inversion techniques and their uncertainty specification. We specifically encourage submitting papers that show the potential of combining microwave radiometer observations with other active or passive remote sensing observations, either from the ground or from space. The Special Issue also aims to address the use of microwave remote sensing data for now-casting and/or assimilation into NWP models for improving short-term weather forecasts.

Dr. Francisco Navas-Guzmán

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

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

Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)