Special Issue

Atmospheric Radiative Transfer and Remote Sensing

Message from the Guest Editor

The Sun, as the main energy source of the Earth, transports its energy through the atmosphere by particle radiation and electromagnetic radiation. The interaction between atmospheric matter and solar radiation plays a leading role in life conditions at the Earth's surface—as an example, the absorption, emission, and scattering of radiation within the atmosphere are critical processes that impact our planet's climate and allow the remote sensing of key atmospheric properties.

The scope of this Special Issue has been extended to cover a wide range of topics for a better understanding of solar radiation, as well as the impacts of interaction with atmospheric matter on climate, the Earth and humans.

Accordingly, we warmly invite all specialists, experts, higher-education students, researchers, scientists, and educational/industrial centers to present their latest experimental or theoretical scientific achievements across the broader spectrum of energy transfer, remote sensing, climate modeling, climate monitoring, trace gases and radiation interaction, in the form of original research articles or reviews.

Guest Editor

Dr. Amin Shahrokhi
Department of Radiochemistry and Radioecology, University of Pannonia, 8200 Veszprém, Hungary

Deadline for manuscript submissions

closed (10 February 2023)

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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About the Journal

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

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

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