

Special Issue

Solar Radiation and Climate Change: Direct and Indirect Interconnections

Message from the Guest Editor

Solar radiation plays a crucial role in driving the Earth's climate system and is closely linked to climate change. The inter-relationship between solar radiation and the climate system is rather complex because the former directly and indirectly influences our climate. The energy from the Sun (in the UV, VIS, and IR bands) passes through the Earth's atmosphere and reaches its surface, thus influencing various climatic processes. This Special Issue aims to collect new research and findings regarding solar radiation and climate interconnections. Therefore, the scope of this Special Issue includes measurements, methods, and techniques that can provide advanced knowledge on how solar radiation (or solar energy) affects our climate (and consequently contributes to climate change) in both a negative and positive manner.

Guest Editor

Dr. Harry D. Kambezidis

1. Atmospheric Research Team, Institute of Environmental Research and Sustainable Development, National Observatory of Athens, Lofos Nymphon, GR-11810 Athens, Greece
2. Soft Energy Systems and Environmental Protection Laboratory, Department of Mechanical Engineering, University of West Attica, P. Ralli & Thivon 250, GR-12244 Egaleo, Greece

Deadline for manuscript submissions

closed (31 March 2024)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/178114

Applied Sciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

[mdpi.com/journal/
appls](https://mdpi.com/journal/appls)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)