

Special Issue

Solar Radiation: Measurements and Modelling, Effects and Applications

Message from the Guest Editors

Solar radiation is recognized as the primary source for life on earth as it controls various elements, such as the atmospheric environment, terrestrial ecosystems, and terrestrial climate. Because of its important role, solar radiation has been the subject of numerous studies mostly focusing on solar measurements and models. No work, to our knowledge, has discussed a holistic approach to solar radiation, i.e., by examining issues directly related not only to solar radiation/energy but also to applications and effects. This Special Issue will, therefore, try to cover advances in: (i) the contemporary use of solar radiation/energy, (ii) modelling of solar radiation with advanced now-casting techniques, (iii) the relation of solar radiation with local/regional/global climate, (iv) the effects of solar radiation on human health, agricultural crops, hydrologic cycles, weather modification, ecosystems, and atmosphere.

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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.

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