

Special Issue

Advances in Solar Physics

Message from the Guest Editors

Solar physics is a dynamic and rapidly evolving discipline, offering profound insights into the Sun's behavior, its complex interactions within the heliosphere, and its far-reaching influence on Earth's space environment. This Special Issue aims to showcase the latest advancements in solar physics, spanning observational, theoretical, and computational research. We invite contributions that delve into solar activity, magnetic fields, coronal dynamics, solar wind, and their impacts on the heliosphere. Studies employing innovative techniques—such as high-resolution imaging, multi-wavelength observations, advanced numerical simulations, and artificial intelligence (AI) approaches—are particularly encouraged. By highlighting novel methodologies and specific breakthroughs, such as improved solar flare forecasting models, refined coronal heating theories, and enhanced solar wind simulations, this Special Issue seeks to provide a platform for cutting-edge research. Submissions that explore the integration of observational data with predictive models to address unsolved problems in space weather forecasting and heliophysics are especially welcome.

Guest Editors

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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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