Special Issue

Advances in Investigation of the Laboratory and Space Plasma: Data, Modeling, and Applications

Message from the Guest Editor

The aim of this Special issue is to present cutting-edge research and new theoretical and experimental results connected with the physics of plasmas, including numerous fundamental and applicative processes. All these processes are crucial for comprehension plasma, which is a common and frequently studied state that can be found at almost all scales from the astrophysical scale (stars, interplanetary medium, etc.) to the different types of nanosystems on the atomistic and elementary particle level. In parallel with this, the efficiency of theoretical analysis and modeling of these environments depends on novel atomic data and their sources. This SI will bring together physicists, astronomers and geophysicists, as well as data scientists, to review the present stage of research, with the aim of improving our knowledge in this field, and to better understand the significance of this topic.

We invite theoretical and experimental submissions, as well as survey papers and comprehensive reviews.

Keywords:
- astrophysics
- atmosphere
- geophysics
- spectroscopy
- plasma diagnostics
- plasma simulation
- plasma applications
- databases

Guest Editor

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Deadline for manuscript submissions

closed (30 August 2023)

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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.

Editor-in-Chief

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