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Turbulence in Laboratory, Space and Astrophysical Plasmas: Theory and Applications

Guest Editor:

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Message from the Guest Editor

The aim of this Special Issue is to present recent advances in theory of plasma turbulence and their application to several systems, from laboratory experiments to astrophysics. Understanding the properties of turbulent fluctuations in plasmas and the mechanisms underlying their turbulent cascade is crucial to understand how turbulence feeds back on the whole system dynamics and energetics. To this end, theory, observations, and numerical simulations have always played a key role in complementing and supplementing each other.

This Special Issue will gather original research, as well as review and perspective papers, focusing on the key problem of plasma turbulence theories and their applications to laboratory, space and astrophysical systems. This includes studies based on a theoretical approach, both analytical and/or numerical, as well as on data analysis, from both remote observations and/or direct measurements.

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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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