Special Issue

Advances in Plasma Physics with Symmetry/Asymmetry

Message from the Guest Editors

Symmetry is found in plasma physics either as a symmetry of physical laws or as a symmetry of arrangement of various plasma sources. This Special Issue aims to advance our knowledge in topics related to nonthermal plasma, thermal plasma, and fusion plasma. Symmetric properties of plasma physics and its applications should be highlighted. Dielectric barrier discharge (DBD) is a nonthermal plasma discharge. DBDs have various advantages and, among them, symmetry allows DBDs to be scaled to large areas for the surface treatment of materials or sterilization. Various applications of nonthermal plasma in medicine, for the surface treatment of materials, such as plasma actuators or microplasmas should be covered. We are soliciting contributions not only in the areas of nonthermal plasma physics and its applications but also in thermal plasma and fusion plasma with an emphasis on symmetry.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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