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Advances in Plasmas

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Message from the Guest Editor

As is already known, plasma produced by electrical discharge generates lot of charged particles, reactive species, UV radiation, and heat. Since all these by-products of plasmas are effective agents for various materials, plasma technology has been applied to the production of high-performance functional materials in the last few decades, in spite of the difficulty in the diagnosis of plasma in contact with materials. Also, plasma can exist in a variety of forms and have various physical, chemical, and optical behaviors due to discharge modes created in different ways, resulting in a broad range of applications. Plasma technology related to the production of functional materials is known to play an important role in a variety of applications, such as sensors and displays, printable electronics, packaging, medicine, agriculture, energy production/harvesting, transportation, and aerospace technology.

This Special Issue is to provide a comprehensive overview of the recent advances in the field of materials using plasma processes. from the fundamentals of physicochemical processes of plasma sources to applications such as material svnthesis. surface modification and plasma devices.









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Message from the Editor-in-Chief

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