Special Issue

Plasma: From Materials to Emerging Technologies

Message from the Guest Editor

Interest in plasma as a tool in various technological processes has been growing for several decades. The special advantage of plasma is the immediate generation of chemically active radicals. Plasma also has other advantages, which depend on its source, e.g., low or high temperature (dielectric barrier discharge vs. plasmatrons), large or small volume (electron beam chambers vs. microplasma), and high or low homogeneity (low pressure RF plasma vs. corona dicharge). Plasma is used in so many areas, starting with the synthesis of ozone initiated in 1857, through the activation of material surfaces and flow control by actuators and electrohydrodynamic pumps, to the latest applications related to medicine, environmental protection and stopping climate change. The aim of this Special Issue is to collect reports on the design and characterization of plasma methods that are or can be used in various types of technologies, especially those that solve contemporary problems regarding materials, energy and the environment. Since many plasma-based technologies are already applied in industry, review papers are also welcome.

Guest Editor

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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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