Special Issue

Advanced Plasma Processes for Nanotechnologies

Message from the Guest Editor

Plasma processing has proven to be an invaluable tool in many areas, including materials engineering and nanotechnology. There is no doubt that it would be impossible to reach the current level of progress in semiconductor and electronics industries without the use of plasma technology. Novel advanced plasma processing methods have made strong contributions to nanotechnology, and an increase of plasma processing's impact on nanoscience is foreseen in the short- and long-term.

This Special Issue will focus on recent progress in the development of novel plasma processes for establishing new trends in nanotechnology and material science. Special attention will be given to the engineering of nano-materials with unique properties for the demands of biomedical, chemical, and semiconductor industries; catalysts synthesis; and thin coatings, including clusters and nano-composites. The scope of the Special Issue is to provide a comprehensive overview of recent progress in the field of plasma methods for nano-materials engineering and to give insight into physical and chemical backgrounds of plasma processing.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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