Special Issue

Plasma Processing of Inorganic Nanomaterials: From Fabrication to Functional Applications

Message from the Guest Editor

In recent decades, the fast advancements in the preparation of multifunctional nanomaterials have prompted the exploitation of new synthetic approaches to face the hard tasks related to the obtainment of high pure systems endowed with specific structural and morphological features. In this context, plasma technologies provide an exceptional option not only for the growth of a broad variety of materials, ranging from powders to thin films, nanocomposites and 1D and 2D nanoarchitectures, but also for their special flexibility in tailoring the system properties and functional behavior. This peculiar synthetic approach is an appealing and versatile tool for the preparation/activation of nanosystems characterized by unique chemicophysical features which can be finely tailored by a proper tuning of process parameters.

Guest Editor

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Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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