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Plasma-Assisted Nanofabrication

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editor

Plasma processes are powerful techniques for the generation and modification of nanostructures and nanotextured surfaces. Such processes can produce nanostructures in a scalable, environmentally friendly, time-efficient, and cost-effective way. They therefore are promising for various industrial applications, ranging from nanomanufacturing, electronics, and photonics to biomedicine. In recent years, there have been many exciting advancements in plasma-assisted nanofabrication. New approaches have been developed and related applications have been explored in this field. Fundamental research on investigating the underneath mechanisms in the nanofabrication has also been carried out. We invite investigators to submit original research articles, letters, as well as review articles and perspective views, on fundamental studies, fabrication method development, and applications of plasma-assisted nanofabrication. The present Special Issue of *Nanomaterials* focuses on the demonstration of new insights, as well as the potential and challenges in this field. Both experimental and theoretical works are welcome

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Message from the Editor-in-Chief

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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