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Nanostructured Surfaces and Thin Films Synthesis by Physical Vapor Deposition

Guest Editor:

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Deadline for manuscript submissions:
closed (21 July 2020)

Message from the Guest Editor

The synthesis of nanostructured surfaces and thin films by means of physical vapor deposition is currently a field of great interest in both scientific and technological aspects. Techniques such as pulsed laser deposition, magnetron sputtering, HiPIMS, or e-beam evaporation, among others, are key for the development of applications in photovoltaic cells, tribological coatings, optofluidic sensors, or biotechnology, to name a few. The nanostructuration of the surface allows for the tailoring of the way a material interacts with the environment, providing a tuning mechanism for its properties, be them optical, mechanical, electrical, tribological, or chemical. This Special Issue invites manuscripts that present significant advances concerning both fundamental and applied research topics, which include but are not limited to the following: Thin film nanostructuration processes; Nanostructural properties; Anisotropic nanostructured surfaces; Atomistic processes during film synthesis; Simulation of nanostructured surfaces; Applications of nanostructured thin films; Devices.

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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.

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