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Carbon-Based Nanostructured Films

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Message from the Guest Editors

Carbon-based nanostructured films are being widely investigated for a range of possible applications in different fields, from energy, sensing, optoelectronics and nanomedicine to mechanical, structural and protective coatings, nuclear, plasma and high energy particle physics. Carbon is unique in its capability to form different structures and morphologies from the nano to the microscale, as well as to display a large specific surface, high mechanical strength and electrical or thermal conductivity. Besides graphitic and diamond-like carbon (DLC), carbon nanostructures such as fullerene, nanotubes and graphene represent an additional possibility to engineer the functional properties. The design of films, coatings and composites for targeted applications requires the control and understanding of structure–property relationships in all the development steps starting from the fabrication process and the characterization of the functional properties, to performance testing. For further reading, please follow the link to the Special Issue Website at: <https://www.mdpi.com/si/28695>

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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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