Special Issue

Vapor-Based Graphene Synthesis and Its Applications

Message from the Guest Editor

Graphene synthesis using different vapor-based methods provides an opportunity to control the structure and properties of graphene by adjusting its deposition conditions. In such a case, graphene can be directly grown on catalytic metal foils and even on semiconducting and dielectric substrates, similar to the functional layers and electrodes of more mature semiconductor devices. Graphene grown via vapor-based methods is already considered a new transparent conductor in solar cells, a monolayer alternative to the Schottky contact metals in photodetectors and Schottky diodes, and an active layer within field effect transistors and different sensors. The potential topics of this Special Issue include, but are not limited to, the following: Graphene synthesis by chemical vapor deposition (CVD), plasma-enhanced chemical vapor deposition (PECVD), pulsed laser deposition, cathodic arc evaporation, and magnetron sputtering on catalytic metal substrates; etc. See more information at https://www.mdpi.com/si/174633

Guest Editor

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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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