Special Issue

2D Materials for Advanced Sensors: Fabrication and Applications

Message from the Guest Editors

The advent of the field of graphene and related atomically-thin two-dimensional (2D) materials have created a new paradigm in atomic-scale devices. Numerous applications such as logic devices, advanced photonics, electrochemical applications, multidisciplinary biomedical applications and various sensors have been extensively explored owing to their compelling properties including atomically thin thickness, dangling bond-free surface and appropriate band gaps, etc. Among their extraordinary properties, 2D materials have high surface area-to-volume ratios and ultra-high surface sensitivity to the environment, which endows them great potential applications in different sensor devices such as chemical sensor, gas sensors, thermal sensor, photodetector, pressure sensor, stress sensor, flexible sensor, etc. [...] For further reading, please follow the link to the Special Issue website at: https://www.mdpi.com/si/106015.

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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.

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