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Photonic Sensors and Optoelectronic Devices Based 2D Materials

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Message from the Guest Editor

Graphene, as a novel optoelectronic material, offers great promise to the field of photonics, optical sensors, and a number of other fields. Owing to its superior and intriguing properties, several attractive applications of graphene are being vigorously exploited. However, we believe that the true potential of graphene has not yet been fully exploited. So far, there has been continuous investigation and exploration aiming to answer the new challenges imposed by the different application fields. This has been possible thanks to several factors, including innovation in the function of multiple-graphene–dielectric-graphene layer stacks in a controlled fashion, the improved performance of optical sensors, increased efficiency of interaction of light with graphene, etc.

In this Special Issue, we are aiming to focus on the most recent developments in graphene-based photonics and optical devices, covering recent technological improvements in the design, fabrication, and validation of new sensors or the modification of existing ones, and alternative use in emerging applications.



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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