

## Special Issue

# Graphene-Based Nanostructures and Optoelectronic Applications

### Message from the Guest Editor

Optoelectronic processes are taking place in devices, in which either an electric charge is used to generate light, such as in light emitting diodes and lasers, or light is used to generate electric current, such as in photovoltaic devices and photodetectors. Functional components of these devices, such as electrodes, involve a wide range of nanostructured materials. The exotic structural and conductive properties of two-dimensional graphitic nanostructures have created a scientific frenzy towards the integration of such materials in optoelectronic devices. The development of graphene-based electrode materials for optoelectronic devices is the key to widening their applicability in real-life applications. This Special Issue addresses graphene-based nanomaterials for optoelectronic applications. I invite the scientific community to present the latest knowledge related to the aforementioned topics. All this gathered information will act as a spark towards the generation of new ideas, which are going to further develop the topic under study.

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### Guest Editor

Dr. Dimitrios Tasis

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### Deadline for manuscript submissions

closed (30 April 2020)



## Nanomaterials

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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