

## Special Issue

# Graphene-Based Nanomaterials and Nanostructures for Low-Terahertz Shielding and Absorbing Applications

### Message from the Guest Editors

In the past few years, the field of terahertz (THz) and sub-THz science and technology has grown exponentially thanks to its multidisciplinary applications. Meanwhile, graphene-based nanomaterials and nanostructures are attracting ever-growing interest, thanks to their exceptional electrical, mechanical and thermal properties. This Special Issue is aimed to present recent advances in the development of broadband absorbing and shielding screens up to terahertz frequency range based on the use of graphene-based nanomaterials and nanostructures. Deadline for manuscript submissions is **30 November 2019**. Suggested topics to be covered in this Special Issue include:

- Fabrication/characterization/modeling of graphene-based nanomaterials and nanostructures for shielding and absorbing applications in the THz and sub-THz frequency regime;
- Graphene based wave filters and frequency selective surfaces in the THz and sub-THz frequency regime;
- Effective-medium models of periodic multilayered or nanocomposite coatings.

### Guest Editors

Prof. Dr. Marcello D'Amore

Prof. Dr. Maria Sabrina Sarto

Dr. Alessandro Giuseppe D'Aloia

### Deadline for manuscript submissions

closed (30 November 2019)



## Nanomaterials

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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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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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