Special Issue

Metamaterials, Nanocomposites and Applications

Message from the Guest Editor

The different properties that matter exhibits at the nanoscale, combined with the increasing possibilities that the developments in nanotechnology bring for fabricating exotic nanostructured materials, are the core of the recent rise of a wide variety of metamaterials. These metamaterials are nanostructures that present behaviors that depend on their architecture and differ from the properties of the bulk. In most cases, through understanding their nature, interesting applications for these metamaterials can be found in a wide variety of areas, given that the tailoring of their properties can lead to optimized efficiencies that cannot be found otherwise. In fact, their possibilities are so vast, and the fabrication and characterization techniques have been evolving so fast in recent years, that their potential is not yet fully understood. This Special Issue of *Nanomaterials* will focus on the most advanced fabrication techniques aiming at the nanoscale and how to control and tailor these nanostructures and the new fundamental properties that these artificially created metamaterials exhibit.

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.

Editor-in-Chief

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