

Special Issue

Nanostructures for Photonic and Magnetic Applications

Message from the Guest Editors

The aim of this Special Issue of *Nanomaterials* is to cover recent advances in nanostructures and nanomaterials for photonic and magnetic applications. Inorganic nanoparticles are usually characterized by unusual magnetic and optical properties, providing an avenue for promising practical applications. On the other hand, recent booming development in the field of low-dimensional materials has led to the revival of optics in photonic nanostructures and devices. These diverse applications of nanomaterials form the broad scope of modern nanoscience. Papers describing the synthesis, characterization and measurement techniques for photonic and magnetic nanomaterials, and theoretical DFT-based and multiscale simulations of their structure and various properties, as well as more fundamental research providing insight into the structural, electronic, optical and magnetic properties of nanomaterials, are especially welcome.

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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