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Design of Nanostructured Optic and Optoelectronic Devices

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Message from the Guest Editor

Dear Colleagues,

Nanostructured materials and top-down fabricated nanostructures have been extensively investigated and developed in the last decades, as their optoelectronic properties have allowed the study, design, and experimental testing of devices with interesting and sometimes unique features in terms of bandwidth, operation speed, efficiency, and energy consumption. The small size also leads to the integration of complex multifunctional systems in different technological platforms, potentially exploitable for large-scale production.

This Special Issue focuses on nano-optic and nano-optoelectronic passive/active devices and their applications in various fields, e.g., telecommunications, space, sensing, and medical, with a particular emphasis on aspects related to their modeling, design, and manufacturing.

Prof. Caterina Ciminelli
Guest Editor



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Special Issue



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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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