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## Nanostructured Devices for Advanced Functionalities and Improved Performances in the Optical Domain

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### Message from the Guest Editors

Dear Colleagues,

Operating at the nanoscale when implementing a nano-structuration or a more complex metasurface in guiding or resonant devices has enabled advanced optical functionalities and improved performance. In a large optical span from EUV to THz, devices for telecom and datacom, plasmonic, sensing, optomechanics to opto fluidics, bio imaging, or optogenetics can take advantage of a sub-l structuration.

This Special Issue of *Nanomaterials* covers all aspects of research, technologies, and perspectives of nanostructured devices. The potential topics include but are not limited to nanostructure fabrication, nanostructured surfaces and thin films and their characterization, nanostructured guiding, and resonant devices.

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Dr. Maia Brunstein

*Guest Editors*



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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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