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Nanomaterials and Nanotechnology in Experimental Photonics

Guest Editor:

Dr. Matthieu Roussey
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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

Photonic research is turning over a new leaf due to the advent of novel technologies and applications requiring. A new photonic toolbox is under construction, and we aim in this Special Issue at emphasizing nanophotonics effects for real-life applications, such as environmental sensing, energy harvesting, ICT, and life science.

This Special Issue of Nanomaterials focuses on experimental studies involving nanooptics in terms of metrology, patterning, deposition, and modulation. We welcome all types of contributions: full papers, communications, and reviews. The main topics of the Special Issue are as follows:·

- Investigation of new devices demonstrating interesting new features;
- Applications of current nanotechnologies;
- Life science and environmental sensing;
- Nanofabrication and material control at the nanoscale;
- Optical phenomena in nanostructures;
- Measurement systems involving nanostructure-based devices.

Dr. Matthieu Roussey
Guest Editor

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Editor-in-Chief

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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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