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# Functional Nanostructured Systems for Nanophotonics, Plasmonics and Metamaterials

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Deadline for manuscript submissions:
**closed (31 March 2023)**

## Message from the Guest Editors

Dear Colleagues,

In this special issue we invite the submission of original manuscripts devoted to the engineering of nanomaterials for nanophotonics, plasmonics and meatamaterials for optical applications. We are particularly interested in new material structures and new experimental developments. Topics to be covered include (but are not limited to):

- Fabrication and optical response of nanomaterial systems ( physical & chemical routes, laser processing, etc…)
- Exploring the relations between the nature, size, shape, organization of nanostructures and their optical properties (e.g. plasmon resonances, high refractive index Mie resonances, anapole resonances, luminescence, non-linear effects).
- Advanced optical characterization of nanostructured systems or assemblies of nanostructures (e.g. dark-field, near-field, luminescence imaging, ultrafast spectroscopy, ellipsometry/polarimetry).
- Active and tunable photonic nanomaterial systems, i.e. systems showing reversible tuning of the optical properties of nanostructures
- Nanostructured metamaterials for optical applications: fabrication and optical response.

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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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