Special Issue

Perovskite Nanophotonics

Message from the Guest Editors

This Special Issue aims to reflect all these recent exciting developments. We invite researchers to submit their contributions that focus on optical effects in novel designs and device architectures based on various perovskites. Any format of article is welcome, including full papers, communications, perspectives, and reviews. Potential topics include, but are not limited to: -
fundamentals of optical effects in perovskite-based nanophotonic designs;
- perovskite nano- and microlasers;
- nonlinear optics and nonlinear properties of perovskite nanostructures;
- novel fabrication methods for perovskite nanostructures for optical applications; and
- perovskite-based solar cells, photodetectors, sensors, lasers, or light-emitting diodes (LEDs) powered by smart nanophotonic designs.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2021)

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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.

Editor-in-Chief

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