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Perovskite Nanophotonics

Guest Editors:

Prof. Dr. Sergey Makarov
Department of Physics, ITMO University, 197101 Saint Petersburg, Russia

Prof. Dr. Anvar Zakhidov
The University of Texas at Dallas, Richardson, TX 75080, USA

Prof. Dr. Yuri Kivshar
Nonlinear Physics Center, Research School of Physics, Australian National University, Canberra, ACT 2601, Australia

Deadline for manuscript submissions:
closed (31 May 2021)

Message from the Guest Editors

Dear Colleagues,

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.

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Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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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Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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