Special Issue

Low-Dimensional Optical Materials: Optical Properties and Applications

Message from the Guest Editor

Low-dimensional optical materials have been attracting attention from the optical materials research community due to their potential in various applications such as solar cells, light emitting diodes, photodetectors, waveguides and lasers. Low-dimensional optical materials such as transition metal oxide (TMO) semiconductors, transition metal dichalcogenides (TMDs), II-IV and III-V semiconductors, carbon-based materials, organic semiconductors and perovskites have shown a new optical phenomenon. This Special Issue invites manuscripts that introduce the recent advances related to low-dimensional optical materials and their applications. All theoretical and experimental papers are accepted. Topics include, but are not limited to, the following:

- Synthesis and growth mechanism of low-dimensional optical materials;
- Applications: solar cells, LEDs, photodetectors, waveguides, lasers;
- Non-linear optical devices;
- Optical responses of low-dimensional materials;
- Optical properties of low-dimensional organic or inorganic materials;
- Characterization of low-dimensional optical materials.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peerreviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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