



Low-Dimensional Optical Materials: Optical Properties and Applications

Guest Editor:

Dr. Azzuliani Supangat

Low Dimensional Materials
Research Centre, Department of
Physics, Faculty of Science,
Universiti Malaya, Kuala Lumpur
50603, Malaysia

Deadline for manuscript
submissions:

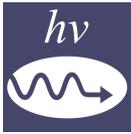
closed (30 June 2023)

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.





photonics



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Nelson Tansu

School of Electrical and
Electronic Engineering (EEE), The
University of Adelaide, Adelaide,
SA 5005, Australia

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 peer-reviewed 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q2 (Instrumentation)

Contact Us

Photonics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/photonics
photonics@mdpi.com
X@Photonics_MDPI