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## Low-Dimensional Optical Materials: Optical Properties and Applications

Guest Editor:

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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.



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# Special Issue