

Special Issue on Two-Dimensional Material and Metasurface Based Optoelectronics

CALL FOR PAPERS

Two-dimensional (2D) materials have attracted much attention due to their extraordinary electronic and optical properties, which show a large potential in optoelectronic applications. Although much progress has been made, many challenges still exist in the practical applications of 2D materials from photodetector to other optoelectronic applications. It has been demonstrated that optical metasurface present exceptional abilities for controlling the flow of light. Such 2D metasurfaces are compatible with on-chip nanophotonic devices, which is of critical importance for future applications in optoelectronics. Both the 2D materials and the metasurface have potential applications in the field of optoelectronics. However, there still exist numerous problems to be further studied, especially in the combination of 2D materials and metasurface.

This special issue is dedicated to promote current research on two-dimensional (2D) material and metasurface based optoelectronics. Besides, we hope to further reveal the novel characteristics of the combination of 2D material and metasurface.

In conclusion, this special issue welcomes submissions relating to photoelectric characteristics and applications of 2D materials and metasurface. Review papers that include multidisciplinary views of 2D materials and metasurface are also welcomed.

Potential topics include but are not limited to the following:

- ▶ Ultrafast and nonlinear optical phenomena of 2D materials
- ▶ 2D material and metasurface based all-optical device
- ▶ Structured light generation and its applications (communications, imaging, and holography)
- ▶ All-optical signal processing and communications
- ▶ Ultrafast fiber laser, solid state laser, and micro/nanolaser
- ▶ Applications of 2D materials in photodetector and sensor

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/acmp/tdmm/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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