

Special Issue

Optical Properties of 2D Material

Message from the Guest Editor

Two-dimensional (2D) materials are an emerging platform with promising properties for optics, including transferability, stretchability, heterogeneous device assembly, and straightforward integration with complex chip architectures. Photonics based on two-dimensional (2D) materials have made incredible progress in recent years and now set the state-of-the-art for a number of applications as integrated light sources, modulators, and detectors. For this Special Issue, we invite authors to contribute original research as well as review articles on recent advances made on the understanding, characterization, and employment of the optical properties of 2D materials. Potential areas include but are not limited to:

- Integrated active optical components based on 2D materials;
- Light-matter interaction in 2D materials;
- Strong coupling regime and polariton resonances in 2D materials;
- Quantum emitters;
- Active defects in 2D material lattices;
- Plasmonic in 2D systems;
- Sensing with 2D materials;
- Near-field spectroscopy;
- Ultrafast phenomena in 2D materials;
- 2D heterostructures and applications;
- Intra- and interlayer excitons in TMDs.

Guest Editor

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Deadline for manuscript submissions

closed (10 August 2021)



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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