

## Special Issue

# Optics of 2D Materials: Fundamentals and Applications

### Message from the Guest Editors

This Special Issue aims to bring together detailed studies and high-quality papers from the field of the optical properties of 2D materials and van der Waals heterostructures. We would like to bring together experiments and theorists to review the current status of this burgeoning field and to identify the crucial areas where progress can be made. Accepted contributions will include fundamental optical properties (experiments, theory and simulations) and novel applications of 2D materials at the forefront of scientific knowledge (optical sensors, THz technologies, flexible optoelectronics, energy harvesting and storage, biomedical, thermal management and others).

#### Keywords

- Graphene
- van der Waals materials
- 2D materials
- plasmons
- excitons
- phonons
- polaritons
- atomically-thick layers
- ultra-thin films
- meta-surfaces
- THz technologies
- optical sensors
- novel optical materials

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### Guest Editors

Prof. Dr. Valentyn S. Volkov

Dr. Alexey Y. Nikitin

Dr. Yury V. Stebunov

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### Deadline for manuscript submissions

closed (20 August 2020)



## Applied Sciences

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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