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# 2D Materials and van der Waals Heterostructures for Optoelectronic Devices

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

2D layered materials such as graphene, black phosphorus, monolayer semiconducting transition metal dichalcogenides and hBN covers a great range of bandgap from 0 to 6 eV. Beyond this, heterostructures achieved by van der Waals stacking of these layered materials reveals more intriguing fundamental physical properties and attractive functionalities. The optical and electronic properties of 2D materials and their heterostructures can be further engineered, tuned, optimised, for example with strain, nanostructured substrate, surface chemistry and so on, which brings great opportunities in optoelectronics applications.

This Special Issue focuses on the latest theoretical and experimental developments in 2D materials and van der Waals heterostructures based optoelectronic devices. We invite authors to contribute original research articles and review articles covering the current progress in 2D materials and devices. We welcomes discussion of new ideas, as well as challenges, of using this family of nanomaterials for future applications and technologies.

Dr. Yue Wang Guest Editor





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### Message from the Editor-in-Chief

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