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Two-Dimensional (2D) Materials: Applications, Performance and Future Trends

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Since the discovery of graphene in 2004, two-dimensional (2D) materials have attracted considerable attention in the past decade. The atomically thin thickness and van der Waals (vdWs) interaction between adjacent layers endow 2D materials with unique layer-dependent electrical, optical, and mechanical properties. With the rapid expansion of 2D groups in recent years, 2D materials have been applied in various fields, such as electronics, optoelectronics, biomedicine, catalysis, and energy storage. Compared to conventional materials, 2D devices not only possess a small size and tunable features but also exhibit remarkable performance and potential to develop real applications. This Special Issue of *Applied Sciences* aims to present original articles on the applications, performance, and future trends of 2D materials, providing a platform to share ideas and improve the investigation of the development of practical 2D devices. Both original research and review articles are welcomed in this issue.

Dr. Zhibin Yang
Guest Editor

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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.

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