



## Advances in Graphene-Based Devices

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editor

Dear Colleagues,

Graphene and transition metal dichalcogenides (TMDs), which are two-dimensional (2D) layered materials, have been comprehensively studied as promising materials for the realization of various evolving applications such as optoelectronics and flexible electronics.

This Special Issue welcomes papers on topics including but not limited to:

- Growth of graphene and related 2D materials on different types of metals and insulators;
- Growth of few-layer graphene and stacking with TMDs (heterostructures);
- Ink-based techniques (graphene oxide, h-BN, etc.);
- Wafer-scale integration for BOEL;
- Cold- and hot-walled chemical vapor deposition techniques or other methods;
- Clean transfer of graphene with different techniques;
- Suitable substrate preparation;
- Device fabrication;
- Mobility measurements at room and low temperature;
- Characterization of graphene by means of different techniques;
- Application of graphene.





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## Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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