



## Advances in Graphene Film and Composites

Guest Editor:

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Deadline for manuscript submissions:

**closed (20 May 2025)**

### Message from the Guest Editor

Dear Colleagues,

Graphene, as well as trans-metal dichalcogenides (TMDs) have appeared as the materials with the unique features that make them attractive for application in nanotechnology. Since such materials reveal a very small bandgap (or even lack of it), manipulation with the electronic structure is necessary to unlock their full potential. Successful engineering with the crystal structure of the 2D crystals leads to opening of the bandgap, and therefore, for the wide variety of applications in nanotechnology, encompassing (opto-)electronics, spintronics, sensorics, as well as surface science and biochemistry.

The main feature of this Special Issue is to provide an open-source sharing of the current significant results in the field of the graphene preparation, its further functionalization and manipulation with its physical and chemical properties, as well as their characterisation using different theoretical and experimental methods.





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