



Journal of Nanotechnology

Special Issue on
**Graphene-Like Two-Dimensional Nanomaterials:
Fundamentals and Applications**

CALL FOR PAPERS

Graphene-like two-dimensional (2D) nanomaterials are currently in the forefront of materials research. They have had a profound impact on a wide range of fundamental research and practical applications due to their unique electronic, optical, thermal, mechanical, chemical, and physical properties. The research on two-dimensional nanomaterials, such as graphene, boron nitride sheets, layered transition metal oxides, layered transition metal dichalcogenides, and other 2D compounds, has so far attracted more attentions than other forms of nanomaterials.

Despite the increasing number of theoretical and experimental investigations on this subject, many questions still remain. Thus, this special issue focuses on the fundamentals of two-dimensional nanomaterials and their applications in multi-disciplinary research areas. We invite authors to contribute their original studies as well as reviews in this field. This special issue will provide guidance for future researchers of the recent developments, applications, modelling, and simulations in two-dimensional nanomaterials and the remaining research challenges confronting this field.

Potential topics include, but are not limited to:

- ▶ Advances in modelling and simulations of two-dimensional nanomaterials
- ▶ Synthesis of two-dimensional nanomaterials
- ▶ Two-dimensional nanomaterials in energy conversion
- ▶ Two-dimensional nanomaterials in catalysis
- ▶ Two-dimensional nanomaterials as devices
- ▶ Mechanical properties of two-dimensional nanomaterials
- ▶ Chemical and physical properties of two-dimensional nanomaterials
- ▶ Two-dimensional nanomaterials and their derivatives

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Manuscript Due

Friday, 25 December 2015

First Round of Reviews

Friday, 18 March 2016

Publication Date

Friday, 13 May 2016