

Special Issue on
**Advances of Carbon-Based Nanomaterials for Solid State
Devices: Development and Applications**

CALL FOR PAPERS

Carbon-based materials such as graphene and carbon nanotubes are widely used in biotechnology, alternative energy sources, and chemical and medical fields. Owing to their unique combination of physical and chemical properties such as high electrical conductivity, high surface area, high thermochemical stability, and adequate corrosion resistance, as well as particular mechanical properties, these materials have been the subject of several scientific studies. Unfortunately, the devoted effort to explore the fundamental physics, chemistry of graphene, and carbon nanotubes is not enough to properly modulate in detail all the exceptional properties (including electrical, thermal, mechanical, optical, and long electron mean free paths). Therefore, controlled modification of graphite, GO, rGO and carbon nanotubes is crucial in expanding the applications of carbon-based materials.

The Journal of Nanomaterials is going to publish a special issue entitled “Advances of Carbon-Based Nanomaterials for Solid State Devices: Development and Applications”, seeking submissions about modeling, synthesis, fabrication, characterization, and optimization with applications for solid state devices. For this reason, here we invite authors to contribute related original research articles as well as review articles.

Potential topics include but are not limited to the following:

- ▶ Graphene and carbon nanotubes supercapacitor electrodes
- ▶ Graphene and carbon nanotubes for electrochemical sensors
- ▶ Graphene and carbon nanotubes for thermoelectric applications
- ▶ Miscellaneous of carbon-based materials

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jnm/asbn/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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