



Journal of Nanomaterials

Special Issue on
Carbon Based Hybrid Nanocomposites for Emerging Technologies and Applications

CALL FOR PAPERS

The recent advances in the field of nanomaterials synthesis have a strong impact in many emerging scientific areas and the development of new nanohybrids based on the combination of carbon nanotubes of graphene with nanoparticles has focused a lot of interest. The unique properties of carbon based nanocomposite have spurred numerous investigations and applications in electronics, nanomedicine, biomaterials, and energy. In fact, the outstanding chemical and physical properties of carbon based nanomaterials like electrical and thermal conductivities and mechanical properties make them an important class of nanomaterials for future emerging technologies, more specifically, if combined with metal or metal oxide nanoparticles. Recently, several studies have been reported on the decoration of CNT with metal oxides nanoparticles for solar cell and gas sensors. Today, the properties of carbon based nanohybrids are investigated in a wide range of potential applications such as renewable energies, solar cells, sensors, catalyst, and nanomedicine.

We invite nanotechnologists from all fields to contribute original papers in the topic. Articles from diverse fields such as physics, chemistry, and biotechnology are expected to provide readers and coworkers with novel aspects of carbon based nanohybrids. Our aim is to create a comprehensive special issue that focuses on the synthesis, characterization, and application of carbon based nanohybrid composites that would serve as a reference to coworkers in the field.

Potential topics include, but are not limited to:

- ▶ Synthesis of new carbon nanohybrids combining graphene or carbon nanotubes with metal oxide or metal nanoparticles
- ▶ Control of the distribution and anchorage of nanoparticles on the surface of carbon nanostructures
- ▶ Carbon nanohybrid materials for photovoltaic applications
- ▶ Carbon nanohybrid materials for biomedical applications
- ▶ Optical properties of carbon nanohybrid compounds
- ▶ Sensors based on new carbon nanohybrid materials
- ▶ Toxicology of nanohybrid compound materials

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