

Special Issue on
Carbon Nanomaterials: From Fundamentals to Applications

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Modern carbon nanomaterial family not only consists of conjugated carbons, like fullerenes, nanotubes, and graphene, but covers a broad spectrum of nanocarbons, including nanodiamonds and mesoporous carbons. Owing to their extraordinary optical, electrical, mechanical, and thermal properties, carbon nanomaterials hold great promises in various cutting-edge technologies. The persistent advancement in synthesis and purification of these materials greatly promoted a tremendous stimulus for innovations in energy, electronics, health, and so forth. Recently due to evolving fundamental research, such as incorporation and manipulation of defects on nanomaterials, controlling these materials at atomic scale for novel applications has become new attention. Continuously emerging discoveries open opportunities for expanding current knowledge and applications of carbon nanomaterials.

This special issue focuses on recent progresses in carbon nanomaterials, from fundamental research on synthesis, chemistry, metrology, and so forth to variety of applications. We invite investigators to contribute original research articles as well as review articles that are related to fundamentals and applications of carbon nanomaterials.

Potential topics include but are not limited to the following:

- ▶ Synthesis, growth, and chemistry of carbon nanomaterials
- ▶ Dispersion and separation of carbon nanomaterials
- ▶ Defects on carbon nanomaterials
- ▶ and composites of carbon nanomaterials
- ▶ Optical, electrical, thermal, and mechanical properties of carbon nanomaterials
- ▶ Application of carbon nanomaterials in energy, health, electronics, and photonics

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

Lead Guest Editor

Yanmei Piao, National Institute of Standards and Technology, Gaithersburg, USA
ympiao@gmail.com

Guest Editors

Yin Zhang, Xi'an Jiaotong University, Xi'an, China
yzhang18@xjtu.edu.cn

Xiaolian Sun, Xiamen University, Xiamen, China
xiaolian-sun@xmu.edu.cn

Xiaohang Liu, BASF, Ohio, USA
xiaohang.liu@basf.com

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First Round of Reviews

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