

Special Issue on
**Fluorescent Nanomaterials: Synthesis, Characterization,
and Applications**

CALL FOR PAPERS

Fluorescent nanomaterials (FNMs), which include fluorescently doped silicas, semi-conducting polymer dots, quantum dots, upconversion nanoparticles, carbon dots, carbon nanoclusters, carbon nanotubes, and other carbonaceous nanomaterials, have attracted growing interest in recent years. Due to their superior spectral properties, especially the photoluminescence (PL) properties, FNMs have found their places in various applications, such as imaging, labeling, fluorescent ink, photocatalysis, and optoelectronic devices.

During the past decades, developing better synthetic routes, exploring spectral properties of FNMs, and searching for new applications of FNMs have been at the center of important scientific research efforts. To this end, numerous synthetic methods were developed to produce FNMs with desirable PL performance, many techniques were explored to advance our understanding of the spectral properties of FNMs, and more novel applications of FNMs are emerging; however, there remains much room for improvement.

We invite researchers to contribute review and article papers describing recent development on the preparation, spectroscopic characterization, and applications of FNMs. Findings should seek to obtain FNPs with desirable PL performance, get better understanding of the chemical structural and spectral properties of FNPs, or explore new applications of FNPs.

Potential topics include but are not limited to the following:

- ▶ Spectroscopic characterization of FNMs by UV/Vis absorption, photoluminescence, X-ray diffraction, Raman, FTIR, time dependent and transient absorption spectroscopy, and so forth
- ▶ Theoretical investigation on the spectral properties of FNMs
- ▶ Techniques for improving the fluorescence quantum yield of FNMs
- ▶ Theoretical investigation on the spectral properties of FNMs
- ▶ Spectral properties-based applications of FNMs
- ▶ Prospect on advances, opportunities, and challenges in synthesis, characterization, and applications of FNMs

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

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Manuscript Due

Friday, 12 May 2017

First Round of Reviews

Friday, 4 August 2017

Publication Date

Friday, 29 September 2017