

SENSORS LETTERS

(SCIE indexed American Scientific Publishers Journal)

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A Special Issue on **Functional Nanomaterials for Sensor Applications**

CALL FOR PAPERS

The last two decades have witnessed great and unpredicted progress in the field of functional and tailored advanced materials for potential applications in electronic to sensor devices to energy, environmental and medical fields. Including other exotic areas, the sensing applications of functional advanced materials have received a great attention from the scientific community. This is evidenced in terms of great number of high quality scientific publications and technological innovations built upon the experimental findings in a laboratory setting in academia and industries. Nanomaterials have shown their applicability for a range of technologies due to their improved physical, chemical and functional properties. Hence, the nanomaterials and nanotechnology are becoming standard tools to improve the performance or to reduce the cost of novel sensing systems. Besides the wide variety of available metal oxides nanomaterials, carbon based materials such as single-walled or multi-walled carbon nanotubes (SWCNTs or MWCNTs) and graphene oxide (GO) have attracted much more attention from researchers and become potential sensor materials with great prospect. Meanwhile, inorganic-organic nanohybrids have also been considered to be a very promising approach for developing high performance sensor materials. On the other hand, the rapid development of novel sensor materials will provide the possibility of designing more unique sensor devices and enable the fabrication of well-defined sensor devices with outstanding properties.

In this respect, this special issue is intended to highlight recent advances concerning all aspects of sensors such as gas, chemical, bio-, pressure, humidity, ultra-violet, etc and their based devices. We invite submission of **(i) Review Articles, (ii) Original Research Articles, (iii) Communications/Letters** to editors covering the following topics (but not limited to):

- ❖ *Synthesis/fabrication of novel functional nanomaterials for sensor applications*
- ❖ *Metal oxide nanomaterials for sensor applications*
- ❖ *Carbon based nanomaterials and based sensor devices*
- ❖ *Inorganic-organic hybrid nanomaterials and their mechanism /or modeling for sensor applications*
- ❖ *Novel fabrication/manufacturing method /or technology of structure for sensor applications*
- ❖ *Sensor applications of novel functional material including:*
 - *Novel nanomaterials*
 - *Bio-inspired/related materials and devices*
 - *Supramolecular materials and devices*
 - *Condition-responsive smart materials (surface, interface, porous materials etc.)*
 - *And much more*

ABOUT SENSORS LETTER

Sensor Letters is a multidisciplinary peer-reviewed journal covering the fundamental and applied research aspects on sensor science and technology in all fields of science, engineering, and medicine. Topics include chemical, biological and physical sensors, cell and tissue-based sensors, sensor networks and systems, sensing materials, fabrication techniques, etc.

Abstracting and Indexing

- Science Citation Index Expanded (SCIE, SciSearch)
- ISI-Scientific Database
- Chemistry Citation Index
- Materials Science Citation Index
- Current Contents/Physical
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All manuscripts must be **100% original and unpublished** which should be prepared according to Journal's guidelines, available at <http://www.aspbs.com/sensorlett.html>. Submit your manuscripts as a single file either in **MS word or PDF format by EMAIL** to one of the guest editors. All papers submitted to this special issue will be subject to a strict peer review process to ensure high quality articles. Please make sure in the cover letter that the submitted paper has not been published previously and is not currently submitted for review to any other journal/conference proceedings and will not be submitted elsewhere before a decision is made by this journal.

KEY DATES

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