

Journal of Nanoelectronics and Optoelectronics

(A SCIE indexed, American Scientific Publishers journal)

Special Issue on

Nanoelectronic Sensors for Environment Applications

The increasing environmental problems have become serious issues that are urgently needed to be addressed. The nanoelectronic gas/chemical sensors play an important role in many aspects of science, technology, industry, or daily life. Accurate, sensitive and reliable identification of various characteristic gases or specific components in low concentration is mandatory in for efficient monitoring of environment, air and water. From last few years, nanostructured gas and chemical sensors have received a close attention of the sensor community throughout the world because of some unusually superior sensing performance. However, research and development of nanostructured gas and chemical sensor devices continue to be faced with numerous challenges in terms of sensitivity, selectivity, promptness of response, robustness, and many other aspects. Synthesis and fabrication of novel nanostructured sensing materials open up new opportunities, while the fundamental understanding of underlying sensing processes continues to be improved. At the same time, knowledge about sensing mechanisms has greatly improved by sound theoretical models as well as spectroscopic technologies.

This special issue in the journal 'Nanoelectronics and Optoelectronics' is intended to highlight the emerging technologies of nanoelectronic gas and chemical sensors and their applications, and aims at presenting the latest technologies and methodologies developed in this interdisciplinary field of science.

We invite submission of **(i) Review Articles, (ii) Original Research Articles, (iii) Communications/Letters** to editors covering the following topics (but not limited to):

- Nanoelectronic chemical/gas sensors
- Carbon based nanosensors.
- Synthesis, functionalization and properties of organic materials based nanosensors
- Theoretical calculation and simulation on sensing nanomaterials/ nanoelectronic sensors
- Optoelectronic sensors (near-infrared, mid-infrared, Raman scattering and terahertz spectroscopies, etc.)
- Optical, thermometric, cantilever, crystal microbalance, field effect transistors based nanosensors.

MANUSCRIPT SUBMISSION

All manuscripts must be 100% original and unpublished which should be prepared according to the Journal's guidelines, available at <http://www.aspbs.com/jno>. Please see "Instructions for Authors" to prepare your manuscript. Submit your manuscript as a single file either in MS word or PDF format by www.mstracker.com. All papers submitted to this special issue will be subject to a strict peer review to ensure the high quality of the articles. Please make sure in the cover letter that the submitted manuscript has not been published previously and is not currently submitted for review to any other journals/conference proceedings and will not be submitted elsewhere before a decision is made by this journal.

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