

# **SENSOR LETTERS**

(SCOPUS indexed American Scientific Publishers Journal)

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*A Special Issue on*

## **Nanostructured Gas and Chemical Sensors**

### **CALL FOR PAPERS**

Nanostructured gas and 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 some areas such as industrial and agricultural plants, automotive technologies, food sciences, environmental monitoring, or air quality security, to name just a few. In the 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 of the journal 'Sensor Letters' is intended to highlight the emerging technologies of nanostructured 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):

- Synthesis, functionalization and properties of metal oxide sensing nanomaterials/sensors
- Synthesis, functionalization and properties of carbon related sensing nanomaterials/sensors

- Synthesis, functionalization and properties of organic related sensing nanomaterials/sensors
- New chemistry, new composite sensor materials
- Integration of sensing nanomaterials onto transducers platforms
- Theoretical calculation and simulation on sensing nanomaterials/ sensors
- New applications of nanostructured gas and chemical sensors
- Spectroscopic gas sensors (near-infrared, mid-infrared, Raman scattering and terahertz spectroscopies, etc.)
- Optical gas sensors, thermometric gas sensors, crystal microbalance gas sensors, cantilever gas sensors, field-effect gas sensors, etc.

### **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/sensorlett.html>. Submit your manuscript 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 to ensure the high quality of the articles. Please make sure in the cover letter that the submitted manuscript of your paper 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.

### **GUEST EDITORS**

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### **KEY DATES**

*Last date of Submission of the Manuscript: 30<sup>th</sup> December, 2016*

*Due Date of completion of Review: 15<sup>th</sup> January, 2017*

*Date of Publication: March 2017*