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SENSOR LETTERS

(American Scientific Publishers Journal)

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A Special Issue on

“Nanostructured Mesoporous Materials based Gas Sensors”

Indoor environment and the need to combat its associated negative effects constitute one of the key global challenges of the modern age. In the last decade, materials with high intrinsic surface area such as carbon nanostructures, silica, conducting polymers and metal oxides, have become a focus of intensive research for designing reliable and robust gas sensors. The novel surface and physico-chemical properties offered by the nanostructured mesoporous materials such as small size, high specific surface area, high aspect (surface-to-volume) ratio and enormous surface sites significantly increases the chemical reactivity and diffusion of gas molecule. This can enhance the vital sensing attributes of the material (linearity, sensitivity, selectivity, stability, response/recovery and reversibility) to the target gas molecules.

The special issue of sensor letters is intended to cover the recent advancements in the thematic area of novel gas sensors based on different kinds of nanostructured mesoporous materials developed in a variety of the form (thin films, powders, thick films, and pellets) with the wide range of morphologies (nanowires, nanotubes, hierarchical nanostructures) and aims at presenting the advanced technologies and methodologies developed in this cutting-edge interdisciplinary field of material science.

The aim and scope of the issue is to provide a research medium and an important foundation for the advancement and dissemination of research results that support gas sensors and research in the fields of Engineering and Technology. We bring together Scientists, Academician, Field Engineers, Scholars and Students of related fields of Engineering and Technology. We invite submission of (i) **Research Articles**, (ii) **Communications/ Letters** to editors covering the following topics (but not limited to):

- Mesoporous metal oxide/carbon/silica/ceramic based gas sensors
- Mesoporous 2D/3D materials based gas sensors
- Zeolites based gas sensors
- Porous polymers based gas sensors
- Hard/soft template based porous materials for gas sensors
- Mesoporous film based sensors
- Sensor Applications

ABOUT SENSOR LETTERS

Sensor Letters is a multidisciplinary peer-reviewed international 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.

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 manuscripts in MS word and PDF format online to the any of the email addresses mentioned below.
- In the cover letter, please mention that the manuscript is submitted for the special issue. All papers submitted to this issue will be subjected to a strict peer review process to ensure high quality articles. Mention the name of three potential referees with their contact address and designation in the cover letter.
- Authors should submit a statement of novelty and originality in the cover letter to ensure that that the submitted paper is original and it is neither published previously nor submitted to any other journal presently and will not be submitted somewhere else before a final decision is made by this journal. The earlier published articles or submitted for publications in other journals/conference proceedings will not be considered. The language of the manuscript is English.

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