

SENSOR LETTERS

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A Special Issue on

Microfluidics, Nanostructures and Biomedical Sensors

CALL FOR PAPERS

Microfluidic technology offers a powerful platform and shown a great demand to revolutionize the point-of-care devices for global health care. Integrated microfluidic biomedical sensors with intrinsic their benefits such as fast response, compactness, high sensitivity, and multiplex operation possibility enable quantitative and qualitative analysis of metabolites including glucose, cholesterol, lactate etc., biomolecular interactions including antibody-cells, protein-protein, DNA-DNA and other molecular structures. Also, with recent microfluidic technology it is possible to operate on small amount of liquid volume (micro or nano level) for sensing or analyzing of biomolecules and the large surface-to-volume ratio enables portability of microfluidic biomedical sensors which is important for point-of-care testing. Integration of nanostructures materials into microfluidic sensing units further enhances functionalities of sensing capabilities. Many devices have already commercially available in various pharmaceutical industries for point-of-care testing. Accordingly, this Special Issue seeks to contribute to the emerging biosensor technologies focusing on integration of nanostructure materials to biomedical sensors and microfluidic platform for detection of various biomolecules, cells and biomarkers.

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

- 1) Microfluidic-based biomedical sensor
- 2) Microfluidic nanosensor
- 3) BioMEMS and Lab-on-a-chip
- 4) Electrochemical/Optical Nanosensor

The original full length papers / letters / communications are invited for submission following the guidelines of 'Sensor Letters', given in the website below, to either of the Guest Editors via Email. The manuscripts will be peer reviewed. The earlier published articles or submitted for publications in other journals/conference proceedings will not be considered. The language of the manuscript is English.

ABOUT SENSOR LETTERS

Sensor Letters is a multidisciplinary peer-reviewed journal covering the fundamental and applied research aspects on sensor 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, microfluidics, microfabrication techniques, nanostructures etc.

Manuscript Submission: Manuscripts must be prepared according to Journal's guidelines, available at <http://www.aspbs.com/sensorlett/>. Submit your manuscripts in MS word and PDF format online to the email addresses - azahar@iastate.edu or aali2007.azahar70@gmail.com. In the cover letter, please mention that the manuscript is submitted for the special issue. All papers submitted to this issue will be subject 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 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.

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KEY DATES

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