



Journal of Nanomaterials

Special Issue on
Nanotechnologies for Biosensor and Biochip

CALL FOR PAPERS

Nanotechnology is playing an increasingly important role in the development of biosensor and biochip. Over the past decades, a number of nanomaterials derived from nanotechnology have been extensively studied to develop biosensors that yield highly enhanced sensitivity and other attributes. Nanotechnology has also been used for the development of biochips that are ideally suited to meet the demands of biomolecules to facilitate various kinds of biological events (e.g., high-throughput screening and analysis). These emerging nanobiotechnological approaches offer new opportunities for disease diagnostics, environmental monitoring, and drug discovery.

We hope the articles included in this special issue will provide chemists, biochemists, material engineers, and bioengineers with a perspective on the current state of the art of this field. We also hope that the findings covered in the respective articles will form the corner stones for future investigation of the subject matter. In this regard, an insightful discussion of the future direction of your work will be greatly appreciated.

We invite reviews and original research papers describing current and expected challenges in this special issue. Both experimental and theoretical papers are welcome.

Potential topics include, but are not limited to:

- ▶ Bio-nano-conjugated materials for diagnostic biosensors and biochips
- ▶ Biosensors based on nanomaterials and nanodevices
- ▶ Biocompatible platform for delivery of therapeutic drugs or diagnostics
- ▶ Biosensing nanotechnologies for biomimetic chips
- ▶ Microchips for high-throughput screening and biomedical research
- ▶ Biosensors on biological and synthetic molecules
- ▶ Organic nanomaterials in biochips
- ▶ Nanozyme- (nanomaterial-based artificial enzyme-) based biosensors for disease diagnostics and environmental monitoring

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jnm/nbb/>.

Lead Guest Editor

Moon Il Kim, Gachon University,
Gyeonggi-do, Republic of Korea
moonil@gachon.ac.kr

Guest Editors

Tae Jung Park, Chung-Ang University,
Seoul, Republic of Korea
tjpark@cau.ac.kr

Elena Paskaleva, Rensselaer Polytechnic
Institute, Troy, USA
paskae@rpi.edu

Fangfang Sun, Hangzhou Dianzi
University, Zhejiang, China
sunff511@hdu.edu.cn

Jin W. Seo, University of Leuven,
Leuven, Belgium
maria.seo@mtm.kuleuven.be

Krunal Mehta, Bristol-Myers Squibb,
Syracuse, USA
krunal.mehta.rpi@gmail.com

Manuscript Due

Friday, 3 July 2015

First Round of Reviews

Friday, 25 September 2015

Publication Date

Friday, 20 November 2015