

## Special Issue

## SURFACE PLASMON RESONANCE BIOSENSORS AND CHEMICAL SENSORS

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## AIM AND SCOPE

Surface plasmon based sensors have become a central analytical tool for characterization and quantification of chemical and biological molecules. This technology has been applied in detection of analytes related to environmental monitoring, food quality control and medical diagnostics. The unique optical properties of gold and silver nanoparticles make them suitable for the fabrication of surface plasmon based sensors. This special issue will include reviews and original researches in the synthesis of noble metal nanostructures, the study of their cytotoxicity and genotoxicity, and fabrication of surface plasmon resonance based chemical sensors and biosensors. The goal of this special issue is to provide a basis for the development of more sensitive and less toxic sensors; which allow early detection of diseases and prevent the spread of pathogens, among many other emerging applications.

**Keywords:** *Biosensor, chemical sensor, surface plasmon resonance, antibody, nanoparticles, noble metals*

## SUBTOPICS

1	Synthetic routes and plasmonic properties of noble metal nanostructures	3	Cytotoxicity and genotoxicity of noble metal nanostructures
2	Cytotoxicity and genotoxicity of noble metal nanostructures	4	Surface plasmon resonance based biosensors

## SCHEDULE

Manuscript submission deadline	<b>December 19, 2014</b>
Peer Review Due	<b>February 6, 2015</b>
Revision Due	<b>March 13, 2015</b>
Notification of acceptance by the Guest Editor	<b>March 27, 2015</b>
Final manuscripts due	<b>April 17, 2015</b>

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