



Contribution ID: 769

Type: **Invited Speaker / Conférencier invité**

Gold Nanostructures and Their Applications

Thursday, June 18, 2015 3:45 PM (30 minutes)

Nanostructured metallic surfaces support surface plasmon (SP) excitations. The resonance conditions depend on the optical properties at the metal-dielectric interface. For instance, the monitoring of the shift of the surface plasmon resonance (SPR) due to molecular adsorption events is a well-established approach in biosensing. The SPR condition also leads to an increase in the electric field at the surface which can be explored for enhanced spectroscopy schemes, such as surface-enhanced Raman scattering (SERS). In this presentation, I will provide an overview of the recent advances from our group on the fabrication of metallic nanostructures, and discuss some of their applications.

Primary author: Prof. BROLO, Alexandre (University of Victoria)

Presenter: Prof. BROLO, Alexandre (University of Victoria)

Session Classification: R3-1 Light-Matter Interactions (DAMOFC-DCMMP) / Interactions entre la lumière et la matière (DPAMPC-DPMCM)

Track Classification: Division of Atomic, Molecular and Optical Physics, Canada / Division de la physique atomique, moléculaire et photonique, Canada (DAMOFC-DPAMPC)