

## **Short Communication**

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## CORRELATION OF LSPR RESPONSE AND SILICON NANO-STRUCTURING OF GOLD NANOPARTICLES OF DIFFERENT MORPHOLOGY GROWN BY PULSED LASER DEPOSITION.

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## Abstract

This work demonstrates a simple and scalable method for the fabrication of nano wire and nanoporous silicon substrates

chemical etching resulted in nanowire and metal nanoparticle assisted etching produced structure on silicon. In both

with Spectroscopic Ellipsometry and Contact angle measurement respectively. After the MACE process, AgNPs deposited

molecular concentrations are then measured by Surface Enhanced Raman Spectroscopy (SERS). In presence of

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